

# Lamp & Ballast Product Catalog

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### Important Notice

The data and suggested applications contained in this catalog, as well as any additional information our representatives may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties. Applications and conditions of use are many and varied and beyond our control. We do not have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume responsibility for that determination.

OSRAM SYLVANIA claims to supply the best possible products at all times. For this reason, OSRAM SYLVANIA reserves the right to make changes in its products when it believes such changes will improve its products.

The specifications and information shown in this catalog are believed to be accurate. Although OSRAM SYLVANIA believes this information to be correct, no warranty is made or implied as to the accuracy of this information and OSRAM SYLVANIA does not accept or assume responsibility of liability for errors, changes, omissions, or for harm resulting therefrom.

In accordance with our established policy to consistently improve our products, the specifications contained herein are subject to change without notice.

The OSRAM SYLVANIA Test and Measurement Laboratory is a participant in the Energy Efficient Lighting (EEL) Program of the National Voluntary Laboratory Accreditation Program (NVLAP-NIST) and is accredited for testing of lighting products according to the guidelines for the EEL Program. OSRAM SYLVANIA lamp and ballast measurements are conducted under laboratory conditions utilizing American National Standards Institute (ANSI), Canadian Standards Association (CSA), Commission Internationale de l'Eclairage (CIE), and Illuminating Engineering Society of North America (IESNA) standards and practices. The OSRAM SYLVANIA Electronic Component and Systems Development Group participate in the Underwriters Laboratories Inc. Client Test Data Program. Ballast designs are tested for conformance to Underwriters Laboratory (UL) safety standards using practices audited, assessed and approved by UL. Actual lamp and ballast performance may vary depending on application and environment (i.e. ambient temperature, input voltage, ballast type, etc.)

OSRAM SYLVANIA designs and manufactures lamps and ballasts to meet American National Standard Institutes (ANSI) and/or IEC (International Electrotechnical Commission) standards of construction and performance through Total Quality Manufacturing (TQM) practices where applicable. In addition, ballasts are designed and manufactured to meet Underwriters Laboratory (UL) and Canadian Standards Association (CSA) safety standards as necessary. Ratings may change as a result of changes made to remain compliant with modified or updated standards. OSRAM SYLVANIA will release new or updated technical bulletins when appropriate. All product data presented in this catalog supersedes all data published before 2/4/04.

Many OSRAM SYLVANIA products listed in this catalog qualify under the North American Free Trade Agreement (NAFTA) as manufactured in Canada, the United States of America or Mexico.

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OSRAM SYLVANIA's innovative program of environmental responsibility—**ECOLOGIC®**—was designed as a thorough approach to reducing the environmental impact of our processes, packaging and products. Today, ECOLOGIC is even more comprehensive, having evolved to include other elements of sustainability, such as source reduction and reuse, recycling and recyclability, and environmental management systems in product manufacturing.

## Sustainability in Action

### Energy

For our customers, installing energy-efficient lighting is one of the most effective, sustainable design strategies available today. Reduced energy usage means reduced utility emissions, which means reduced environmental impact.

At OSRAM SYLVANIA we have long been the energy-efficient product innovators. We were first with high performance T8 fluorescent lamps in North America. In 1981 we introduced the SYLVANIA OCTRON® family of fluorescent lamps, ushering in a new era of lighting efficiency. For years we have offered our customers optimal design and energy performance with The SYSTEM SOLUTION™ concept-- our inventive offering of energy-efficient SYLVANIA lamps and ballasts. By bringing lamp and ballast development under one roof, we have been able to design SYLVANIA lighting systems that optimize energy savings without sacrificing other elements of performance.

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### Source Reduction and Reuse

OSRAM SYLVANIA pioneered the use of lead-free solders and welded lamp bases, as well as the use of lead-free glass in high intensity discharge (HID) light sources. We have eliminated lead solder in the majority of SYLVANIA general purpose incandescent A-19, B-10, and globe-shaped lamp products; most of our halogen lamp types are lead-free. We also offer the only lead-free, mercury-free high-pressure sodium lamp on the market, and have won acclaim from the lighting community for this research and development breakthrough.

Since 1990, OSRAM SYLVANIA has joined the lamp industry in reducing mercury content in total U.S. lamp shipments by 67%, and in four-foot fluorescent lamps by an average of 80%. Our New Hampshire plants have instituted innovative programs to reclaim unused metal halide and high-pressure sodium arc tubes.

Over the past 15 years, OSRAM SYLVANIA's packaging department has aggressively pursued source reduction strategies, reducing the thickness and combined weight of both primary and secondary packaging for all of our products. Through advanced computer software and scientific methods, we have optimized packaging systems from primary through secondary to unit load, saving packaging materials, pallets, fuel, transportation, and warehouse space, without compromising shipping performance. These benefits extend through the entire supply chain. Our lamp components and highest volume packaging raw materials are typically shipped in re-usable containers, and all packaging is printed using organic soy-based (non-solvent) inks.

### Recycling Philosophy

OSRAM SYLVANIA publicly promotes recycling as the preferred method of lamp disposal. As a matter of policy, our own warehouse and manufacturing locations recycle broken lamps. When our SYLVANIA Lighting Services personnel complete lighting retrofits or maintenance calls, we ship all spent mercury-containing lamps to a bona-fide lamp recycler for processing. Furthermore, we encourage distributors and retailers of our SYLVANIA products to offer lamp-recycling programs to their customers, thereby reducing the burden on the solid waste stream.

### Recycled and Recyclable Materials

We use only recycled mercury in our energy-efficient fluorescent and HID products. 95% of SYLVANIA packaging comes from renewable resources, and 90% of high volume packaging is made from post-consumer or post-industrial recycled materials. Virtually all of our lamp packaging is recyclable.

*OSRAM SYLVANIA recommends that all mercury-containing lamps that are discarded by non-residential users should be recycled, regardless of any exemptions that users may have under their state or local laws. Information about lamp recycling, and individual state rules for lamp disposal, can be found at [www.lamprecycle.org](http://www.lamprecycle.org).*

## SYLVANIA ECO® Products

ECOLOGIC® is more than just a single product solution to today's environmental issues;

SYLVANIA ECO products comprise an entire family of lighting options guided by our unique life-cycle approach to product development.

This approach places strict environmental focus on all stages of lamp life, driving our continual search for improvement—and we have more ECO products than any other lamp manufacturer in North America.

SYLVANIA ECO products are engineered to pass the Federal TCLP test for hazardous waste determination:

- Tested in accordance with EPA SW846
- Prepared for testing in accordance with NEMA LL series standards

ECO products also feature some or all of the following:

- Reduction or elimination of toxic materials
  - Lamp bases using lead-free solders
  - Welded lamp bases
  - Lead-free glass in HID products
  - Precision dosing systems ensuring consistent low mercury content
- Performance equal to or better than standard, non-ECO products
- ECO-friendly packaging, using recycled materials and soy-based inks
- Permanent ECO identifier printed on lamp or stamped into metal base
- Long life with sustained performance
- High efficacy

# Energy and the Cost of Lighting

Inefficient lighting systems waste energy and money. In a typical commercial application, lighting can represent 30-50 percent of operating costs. An investment in energy efficient lighting systems from OSRAM SYLVANIA can reduce these costs and offer an excellent return on investment.

## Calculating Costs

Lighting represents 30 to 50 percent of operating costs in a typical installation. Electricity alone represents 86 percent of those costs, on average, with 11 percent going to maintenance and only 3 percent actually being spent on lighting hardware. Obviously, selecting the most energy efficient lighting systems is the key to getting the best possible return on your lighting investment.

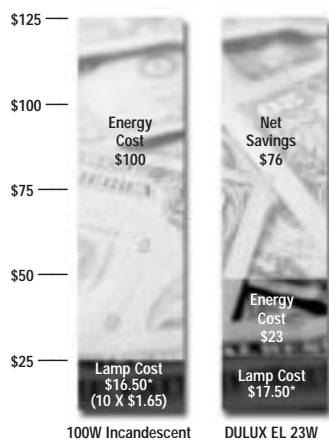
## Minimize Operating Costs

Understanding the basic equations of lighting economics makes it easy to see that long-term operating costs are the most important cost factor, not the initial investment in lamps, ballasts or other hardware. In both retrofits and new installations, it is the overall reductions in energy costs which pay back the initial investment and provide substantial long-term returns.

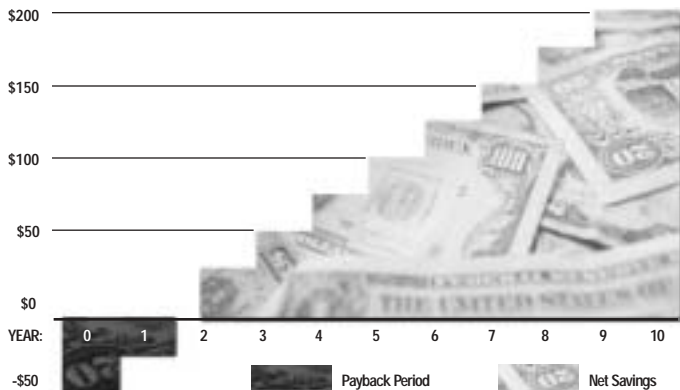
### DULUX® Lamps Offer Significant Savings

Over the long service life of DULUX compact fluorescent lamps, their low energy usage provides a substantial return on investment compared to incandescent lamps with an equivalent light output (savings based on \$0.10 per kWh).

\* approximate retail cost



### SYLVANIA OCTRON® QUICKTRONIC® System Solutions Provide Substantial Savings



Compared with a conventional F40T12 SS 4-lamp magnetic system, a SYLVANIA OCTRON F032T8/QUICKTRONIC 32 LP System Solution can return more than \$200 in energy savings over a 10-year period (savings based on \$0.10 per kWh operated 4000 hours/year).

## Annual Energy Cost Savings Worksheet

Use this 3-part calculation to determine the estimated annual energy cost savings resulting from an upgrade of one lamp or system type throughout a facility. This annual cost savings figure may be compared with the cost of the upgrade to determine simple payback and rate of return (ROR).

NOTE: For fluorescent systems, substitute "lamp" with "system" or "fixture" so that ballast watts are included.

- 1. Compute the total power (kilowatts, kW) saved by upgrading older lamps to energy saving SYLVANIA replacements**

|       |                      |                          |
|-------|----------------------|--------------------------|
|       | _____                | Original Lamp Wattage    |
| -     | _____                | Replacement Lamp Wattage |
| <hr/> |                      |                          |
|       | <input type="text"/> | Watts Saved per Lamp     |
| X     | _____                | # of Lamps to Replace    |
| <hr/> |                      |                          |
|       | <input type="text"/> | Total Watts Saved        |
| ÷     | 1000                 | Total Kilowatts Saved    |
- 2. Compute the total energy (kilowatt hours, kWh) saved annually by performing this upgrade**

|   |                      |                       |
|---|----------------------|-----------------------|
| = | <input type="text"/> | Total Kilowatts Saved |
| X | _____                | Hours of Use per Day  |
| X | _____                | Days of Use per Week  |
| X | _____                | Weeks of Use per Year |
- 3. Compute the total energy cost savings per year**

|       |                      |   |
|-------|----------------------|---|
| =     | <input type="text"/> | Total kWh Saved per Year                    |
| X     | _____                | Your Energy Cost per kWh (typically \$0.10) |
| <hr/> |                      |   |
|       | <input type="text"/> | <b>Total Energy Cost Savings per Year</b>   |

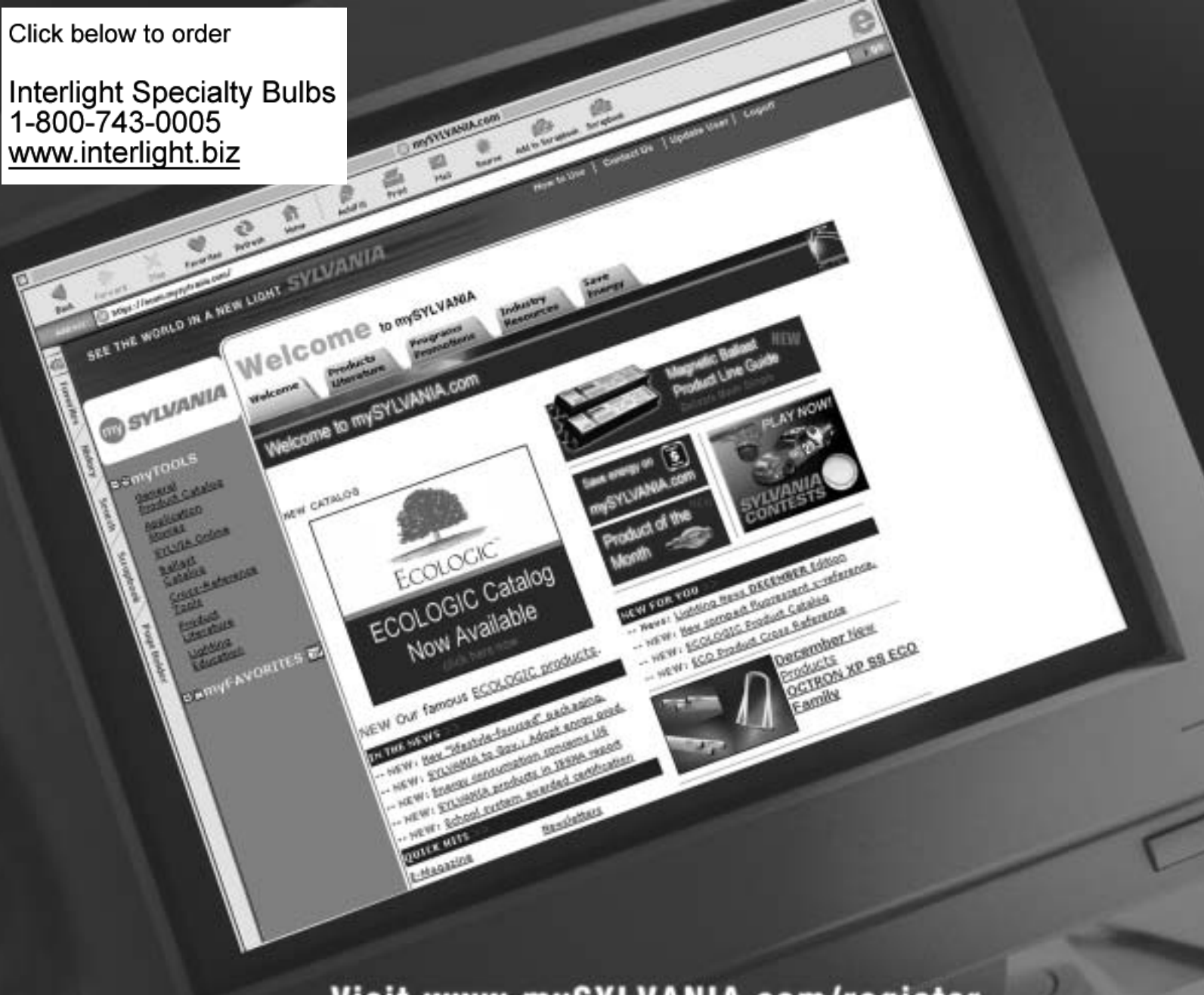
|                       |                      |                                    |
|-----------------------|----------------------|------------------------------------|
| <b>Simple Payback</b> | _____                | Initial Cost of Lighting Upgrade   |
| ÷                     | _____                | Total Energy Cost Savings per Year |
| <hr/>                 |                      |                                    |
|                       | <input type="text"/> | Years                              |

|                             |                      |                |
|-----------------------------|----------------------|----------------|
| <b>Rate of Return (ROR)</b> | 100                  |                |
| ÷                           | _____                | Simple Payback |
| <hr/>                       |                      |                |
|                             | <input type="text"/> | %              |

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We invite you to visit us online at [www.mysylvania.com/register](http://www.mysylvania.com/register) to learn about the many lighting solutions available for today's modern lighting applications. Good lighting is more than just pleasing to the eye. It's a smart, cost-effective way to improve both safety and productivity in the workplace. With SYLVANIA products, you can actually cut your lighting costs and save on lamp replacement and labor costs while improving lighting quality. We understand the needs of the commercial marketplace and have developed a wide variety of lighting solutions specifically designed for you. Your portal features:

- Your Resource Solution Site
- Electronic Catalog
- Industry Links
- Training
- Transaction Details for Partners
- Energy Savings Calculator
- Product Specification
- ECOLOGIC® Certification Program
- Energy Saver Certification Program

# Product Catalog Glossary of Terms

**Ampere** A unit expressing the rate of flow of electric current.

**ANSI (American National Standards Institute)** The organization that develops voluntary guidelines and produces performance standards for the electrical and other industries.

**Audible Noise (Sound)** All fluorescent lamp ballasts produce some noise. Most OSRAM SYLVANIA brand ballasts are sound rated A (up to 75% quieter than magnetic types) and are acceptable for most applications. Care should be taken when mounting the ballast to reduce vibration.

**Average Rated Life** An average rating, in hours, indicating when 50% of a large group of lamps have failed, when operated at nominal lamp voltage and current; manufacturers use 3 hours per start for fluorescent lamps and 10 hours per start for HID lamps when performing lamp life testing procedures; every lamp type has a unique mortality curve that depicts its average rated life. For Photo-Optic specialty lamps, average rated life refers to the operating period after which on statistical average, 50% of the lamps will perform within their specified values.

**Ballast** A device used with an electric discharge lamp to obtain the necessary circuit conditions (voltage, current and waveform) for starting and operating; all fluorescent and HID light sources require a ballast for proper operation. Dimming ballasts are special ballasts which, when used together with a dimmer, will vary the light output of a lamp. OSRAM Photo-Optic discharge lamps are either designed for AC operation (sine wave and/or square wave with recommended operational frequencies below 1KHz) or DC operation (current regulated or power regulated). Please see OSRAM lamp specifications for correct ballast or electronic control gear selection.

**Ballast Basics** Ballasts have two primary functions: 1) start the lamp and 2) control operation of the lamp once it has started. High frequency electronic ballasts operate lamps more efficiently and eliminate the hum and visible flicker normally associated with standard magnetic ballasts. Electronic ballasts also typically have better power quality than magnetic ballasts.

**Ballast Efficacy Factor (BEF)** Ballast factor (as a whole number) divided by input power (watts). Used to measure the level of efficiency of similar ballast models. For example, the OSRAM SYLVANIA QT2X32IS which has a ballast factor of 0.90 and input watts of 59 (BEF= 90/59 = 1.53), is more efficient than electronic ballasts with ballast factor of 0.875 and input watts of 62 (BEF=1.41).

**Ballast Factor (BF)** The measured ability of a particular ballast to produce light from the lamp(s) it powers; ballast factor is derived by dividing the lumen output of a particular lamp/ballast combination by the lumen output of the same lamp(s) on a reference ballast.

**Ballast Fusing** (See Fusing.)

**Ballast Life** OSRAM SYLVANIA ballasts are designed to have an average life expectancy of 60,000 hours. To maximize life, ambient temperature should be kept as low as possible. It is also important to maintain effective dissipation of heat using the lighting fixture as a heatsink for the ballast enclosure.

**Ballast Losses** Power consumed by a ballast that dissipates as heat instead of being converted into light. Electronic ballasts operate more efficiently than magnetic or hybrid ballasts. A typical ballast loss for a standard two lamp energy saving magnetic ballast is 12 watts, where an electronic equivalent would only be 7 watts.

**Ballast Types** There are three types of lighting ballasts: 1) Magnetic: an inefficient device that uses a core and coil assembly transformer to perform the minimum functions required to start and operate the lamp; 2) Hybrid or "low frequency electronic": essentially a magnetic ballast with a few electronic components that switch off voltage to the lamp coil once the lamp has started. A minimal increase in efficiency is obtained via more expensive magnetic core material and the absence of power to the lamp coils during operation; 3) High frequency electronic: a ballast that operates lamps at frequencies above 20,000 Hz. Maximum efficiency is obtained through the use of electronic circuitry and optimum lamp operating characteristics.

**Base** The lamp base mechanically holds the lamp in place in the application. The lamp base directly or indirectly (via a cable or lead-in wires) conducts electricity from the circuit to the lamp and can be designed to dissipate heat. Lamp bases should be operated within specified temperature ranges.

**Beam Angle** The angle between the two directions for which the intensity (candlepower) is 50% of the maximum intensity as measured in a plane through the nominal beam centerline (center beam candlepower).

**Beam Spread** In any plane, the angle between the two directions in the plane in which the candlepower is equal to a stated percent of the maximum candlepower in the beam.

**Black Body (Planckian radiator)** An ideal thermal radiator whose SPD curve is defined by its temperature in Kelvin and whose color coordinates lie exactly on the Planckian curve.

**Brightness** (See Luminance.)

**Bulb** Hard, soft or quartz glass enclosure, which can contain a vacuum, elemental inert gas or metal and a means of light generation (filament or electrodes).

**Candela (cd)** The unit of measure indicating the luminous intensity (candlepower) of a light source in a specific direction; any given light source will have many different intensities, depending upon the direction considered.

**Candlepower Distribution** A curve that represents the variation in luminous intensity (expressed in candelas) in a plane through the light center of a lamp or luminaire; each lamp or lamp/luminaire combination has a unique set of candlepower distributions that indicate how light will be spread.

**Center Beam Candlepower (CBCP)** The intensity of light produced at the center of a reflector lamp beam, expressed in candelas.

**Chromaticity** The aspect of color that includes consideration of its dominant wavelength and purity.

**Color Rendering Index (CRI)** The Color Rendering Index (CRI) measures the effect a light source has on the perceived color of objects and surfaces. High CRI light makes virtually all colors look natural and vibrant. Low CRI causes some colors to appear washed out or even to take on a completely different hue.

**Color Temperature (CT)** Color temperature, which is measured in Kelvin, indicates whether a lamp has a warm, midrange or cool color appearance. "Warm" light sources have a low color temperature (2000-3000K) and feature more light in the red/orange/yellow range. Light with a higher color temperature (>5000K) features more blue light and is referred to as "cool."

**Compact Fluorescent Lamps** Compact fluorescent lamps employ small diameter tubes that are bent so they begin and end in a single base. This allows them to be produced in a wide variety of configurations, greatly extending the applications for fluorescent lighting.

**Correlated Color Temperature (CCT)** A specification of the color appearance of a lamp, relating its color to that of a reference source, black body radiator, heated to a particular temperature, measured in degrees Kelvin (K); CCT generally measures the "warmth" or "coolness" of light source appearance.

**Current** A measure of the rate of flow of electricity, expressed in amperes (A).

**Description** (See Ordering Abbreviation.)

**Design Amperes** The approximate current which the lamp will draw at design volts.

**Directional Lighting** Illumination on the work-plane or on an object predominantly from a single direction.

**Double-Ended** Lamps that have two bases opposite one another for series electrical connection, mechanical mounting and heat dissipation.

**Efficacy** The rate at which a lamp is able to convert power (watts) into light (lumens), expressed in lumens per watt (LPW or lm/W). See also LPW Performance.

**Electronic Control Systems** (See Ballast.)

**EMI/RFI** Electronic Ballasts contain circuits that limit electrical noise conducted onto the power line or radiated through the air, otherwise referred to as EMI/RFI. OSRAM SYLVANIA ballasts comply with FCC 47 CFR Part 18, non-consumer limits for commercial applications. Ballasts for residential application must meet consumer limits. OSRAM SYLVANIA has a complete line of magnetic ballasts for residential use.

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me by an electrical  
time, often  
(Vh).

**Filament** A tungsten wire purposely positioned inside a lamp bulb, that when heated electrically generates radiation in the visible, infrared and ultra-violet ranges. Tungsten material is most often used, as it has great tensile strength, is very durable, and can be heated very near its melting point without evaporating rapidly. Lamp filaments are offered in a variety of designs optimized for specific applications.

**Fixture** (See Luminaire.)

**Floodlight** A reflector lamp with a relatively wide beam pattern. Also a luminaire consisting of lamp and reflector at fixed distance providing a wide field of illumination.

**Fluorescent Lamp** A low pressure mercury vapor discharge light source. The electric discharge generates ultra-violet (UV) energy, which is absorbed by a phosphor and converted to visible light.

**Focal Distance** The distance between a lamp (light producing element) and the focal point of the reflector surrounding it. Lamp alignment can be adjusted to influence both illumination and color quality. Sometimes referred to as "working distance".

**Footcandle (fc)** A unit of illuminance equal to 1 lumen per square foot.

**Frequency** The number of times per second that an alternating current system reverses from positive to negative and back to positive, expressed in cycles per second or hertz (Hz).

**Fusing** All QUICKTRONIC® ballasts contain inherent electrical protection. Although there is no need to externally fuse the ballast, should code or regulation require one, 3 amp slow blow fuses are recommended.

**Glow to Arc Transition** In order to achieve full rated lamp life, a ballast should start a lamp so that the time from when the lamp begins to glow to the time the lamp arc strikes should be as short as possible. OSRAM SYLVANIA instant start ballasts typically accomplish this task within 50 msec.

**Grounding** The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance. Install ballast in accordance with national and local electric codes.

**Halogen Lamps** High pressure tungsten filament lamps containing halogen gases. The halogen gases allow the filaments to operate at higher efficacies than incandescent lamps. Halogen lamps also provide brighter, whiter light with better color characteristics, longer service life and improved energy efficiency.

**Harmonic** An electrical frequency that is an integer multiple of the fundamental frequency; for example, if 60 Hz is the fundamental frequency, then 120 Hz is the second harmonic and 180 Hz is the third harmonic. Some electronic devices, such as ballasts or power supplies, can cause harmonic distortion, directly affecting power quality.

**Hertz (Hz)** A unit of frequency equal to one cycle per second; see frequency.

### High-Intensity Discharge (HID) Lamps

Lamps in which an arc passing between two electrodes in a pressurized tube causes various metallic additives to vaporize and release large amounts of light. All HID lamps offer outstanding energy efficiency and service life. Metal halide lamps also offer good to excellent color rendering index (CRI).

**Hot Ignition** The restarting of a previously operating lamp shortly after turn-off. Hot ignition is a high performance feature in many OSRAM SYLVANIA discharge lamp types.

**Illuminance** Light arriving at a surface, expressed in lumens per unit area; 1 lumen per square foot equals 1 footcandle, while 1 lumen per square meter equals 1 lux.

**Incandescent Lamp** A light source using the principle of incandescence. When an electric current passes through a filament wire (usually tungsten), the heated wire glows. Filaments of standard incandescent lamps are enclosed in a vacuum or gas-filled bulb. They provide low initial cost, good color rendition and excellent optical control.

**Instant Start (IS)** Instant start ballasts apply high voltage across the lamp with no preheating of the cathode. This is the most energy efficient starting method for fluorescent lamp ballasting. IS ballasts use 1.5 to 2 watts less per lamp than rapid start ballast. Other IS ballast benefits typically include parallel lamp circuitry, longer remote wiring distance, easier installation due to less complicated wiring, and capability to start lamps at 0 degrees (versus 50 degrees F for rapid start).

**K-Factor** A measurement that quantifies the effect of non-linear equipment, such as lighting ballasts, on an electrical system. Lighting systems should be designed so that the transformer rating is sufficient for the ballast used (typically K-factor <4). All OSRAM SYLVANIA ballasts meet this specification.

**Lamp** Manufactured light source, synonymous with light bulb; the three broad categories of electric lamps are incandescent, fluorescent and high-intensity discharge.

**Lamp Current Crest Factor (LCCF)** The ratio of peak lamp current to the RMS (average) lamp current. Lamp manufacturers require a LCCF of less than 1.70 in order to achieve full lamp life.

**Lamp Disposal** When disposing of spent lamps, always consult federal, state, local and/or provincial hazardous waste disposal rules and regulations to ensure proper disposal.

**Lamp Flicker** Cyclic variation in output of a light source. High frequency electronic ballasts provide a minimal level of lamp flicker. Lamp flicker from magnetic ballasts may cause eye fatigue for some people.

**Lamp Fuse** Wire or device designed to protect a lamp from over-voltage or over-current conditions. OSRAM requires that all Photo-Optic lamps be fused in their applications to prevent lamp over-powering. Certain lamps contain their own internal fuse. Please ensure lamps in your specific application are fused with respect to their power source.

### Lamp Lumen Depreciation Factor (LLDF)

The multiplier to be used in illumination calculations to relate the initial rated output of light sources to the anticipated minimum rated output based on the relamping program to be used. (See Lumen Depreciation and Mean Lumens.)

**Lens** A glass or plastic element used in luminaires to change the direction and control the distribution of light rays.

**Light** Radiant energy that is capable of producing a visual sensation.

**Light Center Length (LCL)** The distance from a specified reference point on a lamp base to its light center.

**Light Loss Factor (LLF)** A factor used in calculating illuminance after a given period of time and under given conditions. It takes into account temperature and voltage variations, dirt accumulation on luminaire and room surfaces, lamp depreciation, maintenance procedures and atmosphere conditions. Formerly called maintenance factor.

**Low Temperature Starting** QUICKTRONIC® instant start and programmed rapid start electronic ballasts have the capability to start fluorescent lamps at temperatures down to 0°F providing the following conditions are met: 1. The ballast is operated at rated nominal line voltage; 2. Ballast cannot be tandem/remote wired for low temperature starting applications. Please note, starting time may increase at 0°F ambient temperatures. Enclosed fixtures are recommended as fluorescent lamps have reduced light output at cooler ambient temperatures. (See specifications for each model's starting temperature rating.)

**LPW Performance** Lumens Per Watt. The number of lumens produced by a light source for each watt of electrical power supplied to the light source. Also see Efficacy.

**Lumen Depreciation** The decrease in lumen output of a light source over time; every lamp type has a unique lumen depreciation curve (sometimes called a lumen maintenance curve) depicting the pattern of decreasing light output. See Lamp Lumen Depreciation Factor, LLDF and Mean Lumens.

**Lumen Maintenance** (See Lumen Depreciation.)

**Lumens (lm)** A unit of luminous flux; overall light output; quantity of light, expressed in lumens. For example, a dinner candle provides about 12 lumens and a 60-watt soft white incandescent lamp provides about 840 lumens.

**Luminaire** A light fixture; the complete lighting unit, including lamp, reflector, ballast, socket, wiring, diffuser and housing.

**Luminaire Efficiency** The ratio of luminous flux (lumens) emitted by a luminaire to that emitted by the lamp or lamps used therein.

**Luminance (L)** Light reflected in a particular direction; the photometric quantity most closely associated with brightness perception, measured in units of luminous intensity (candelas) per unit area (square feet or square meters).

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) between  
mediate

**Luminance Ratio** The ratio between the luminances of any two areas in the visual field.

**Lux (lx)** A unit of illuminance equal to 1 lumen per square meter.

**Maximum Case Temperature** All OSRAM SYLVANIA electronic ballasts have a maximum allowable case temperature of 70°C and 90°C for magnetic fluorescent ballasts. Applications in which the case temperature exceeds this maximum void all warranties.

**Maximum Overall Length (MOL)** The total length of a lamp, from top of bulb to bottom of base.

**Mean Lumens** Lumen output of a light source after the source has been used. Mean lumen values for fluorescent and HID lamps are typically measured at 40% of their rated lives. Most high pressure sodium and mercury lamps are measured at 50% of their rated lives. All measurements are made on ANSI reference ballasts. Mean lumens are not typically measured for incandescent and tungsten halogen lamps.

**Mean Spherical Candela (MSCD)** The average value of the luminous intensity of a light source in all directions. To convert MSCD to Lumens, multiply by  $4\pi$  (12.57).

### Mean Time Between Failures (MTBF)

A calculation of ballast life based on thermal conditions, component values, and circuit characteristics used to develop relative predictions of ballast life. OSRAM SYLVANIA uses methodology that typically provides a 1:10 actual life prediction based on MTBF calculations.

**NAED** A five-digit number used to identify a specific OSRAM SYLVANIA lamp. This NAED number in this catalog is labeled Product Number and should be used when ordering OSRAM SYLVANIA products. NAED is the abbreviation for National Association of Electrical Distributors.

**Nanometer (nm)** A unit of length equal to  $10^{-9}$  meters; commonly used as a unit of wavelength.

**Nominal Watts** Wattage used to describe a lamp. Also see Power and Watt.

**OFR** Abbreviation for "ozone free" technology. Lamps with the designation OFR do not generate ozone during operation.

**Operating Position** Some lamps are specified/ designed to be operated in certain positions, i.e., horizontal or base up.

**Ordering Abbreviation** Provides a shorthand description of the lamp, using a unique code which can be used when ordering a lamp if the Product Number is not known. An example would be: CF15EL/R30/830/MED, which translates to a 15-watt Soft White DULUX® EL reflector electronic self-ballasted compact fluorescent lamp with an R30 reflector, 82CRI, 3000K color temperature and a medium screw base.

**PAR Lamps** Pressed aluminized reflector lamp, with the outer bulb formed from two pressed glass parts that are fused or sealed together. PAR lamps may be incandescent, halogen, or HID types.

**Parallel vs. Series** Wiring configurations for ballasts. Ballasts with parallel lamp circuitry have the benefit of companion lamps remaining lit, even if one of the lamps operated by the ballast should fail. Systems with series lamp wiring (magnetic ballasts and many rapid start electronic types) result in all lamps operated on the ballast going out if one should fail.

**Photo-Optic Specialty Lamps** Photo-Optic specialty lamps employ a variety of technologies to meet the very precise levels of performance required by the entertainment industry, science, medical and other high-tech fields.

**Power** The rate at which energy is taken from an electrical system or dissipated by a load, expressed in watts (W); power that is generated by a utility is typically expressed in volt-amperes (VA).

**Power Factor** A measure of the effectiveness with which an electrical device converts volt-amperes to watts; devices with power factors (>0.90) are "high power factor" devices.

**Preheat** A class of fluorescents requiring a starter, which allows the lamp and filaments to be properly heated before allowing the ballast to supply the correct current flow.

**Product Number** (See NAED.)

**Programmed Rapid Start (PS)** A method of starting fluorescent lamps where cathode heat is applied prior to lamp ignition, then removed or reduced once the lamp has ignited. PROStart® ballasts maximize the number of lamp starting cycles while maintaining energy efficiency. This is the preferred mode of lamp starting for applications with occupancy sensors and several on/off cycles per day. Additionally, the lamps will strike reliably in cold conditions down to 0°F.

**Rapid Start (RS)** Rapid start ballasts apply a low filament voltage to preheat the cathodes. Simultaneously, a starting voltage (lower than that used in instant start) is also applied to strike the arc. When the cathodes are hot enough, the lamp will strike. The filament voltage continues to be applied throughout the operation of the lamp. Rapid start ballasts appear to have a slight turn on delay compared to instant start. They will typically not be able to start lamps reliably under 50°F.

**Reference Ballast** A ballast specially constructed to have certain prescribed characteristics for use in testing electric-discharge lamps and other ballasts. Reference ballasts are typically defined by ANSI.

**Reflector** A device used to redirect the light by the process of reflection. Photo-Optic reflector lamps utilize ellipsoidal (converging light rays) or parabolic (collimating light rays) reflectors. Dichroic coated reflectors are designed to reflect visible light and pass through unwanted infrared wavelengths.

**Resistance (R)** A measure of resistance to flow of current, expressed in ohms ( $\Omega$ ).

**Safety** Ballasts should be installed and operated in compliance with the National Electric Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations. Since it is possible to come in contact with potentially hazardous voltages, only qualified personnel should perform ballast installation. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off.

**Shielding** A general term to include all devices used to block, diffuse or redirect light rays, including baffles, louvers, shades, diffusers and lenses.

**Single-Ended** Lamps having a single lamp base or point of electrical connection.

### Spectral Power Distribution (SPD)

A curve illustrating the distribution of radiant power produced by the lamp, at each wavelength across the spectrum.

**Spotlight** A luminaire using halogen/incandescent or a high intensity discharge (HID) lamp that produces a narrow beam angle designed to illuminate a specifically defined area. It can also be called a reflector lamp.

**TCLP Test (Toxicity Characteristic Leaching Procedure)** Federal EPA regulations (RCRA of 1990) have defined a TCLP test to determine whether wastes are to be treated as hazardous or non-hazardous.

**Total Harmonic Distortion (THD)** A measure of the distortion of an electrical wave form. Excessive THD (defined by ANSI as greater than 32%) may cause adverse effects to the electrical system. <20% THD ballasts are fine for most applications. However, in buildings with neutral problems caused by high THD loads such as computers, printers, DC supplies, etc., the <10% THD products can help reduce the overall % of Total Harmonic Distortion.

**Transient Protection** OSRAM SYLVANIA ballasts meet ANSI 62.41 Category A. This helps ensure immunity to electrical disturbances such as power line transients, and temporary line voltage dropouts, surges and sags.

**Trigger Start** A circuit used to eliminate the starter and start the preheat lamp almost instantly. In this circuit each electrode is connected to a separate winding in the ballast so that the electrode is continuously heated.

**Tungsten Halogen Cycle** A regenerative cycle of tungsten and halogen atoms, which, when incorporated into the design of halogen light sources, prevents blackening of the lamp envelope during life.

**Voltage (V)** A measure of electrical potential, expressed in volts (V). Voltage is the "force" that pushes electrical current through a conductor.

**Watt (W)** A unit of electrical power equal to 1 joule per second. Lamps are rated in watts to indicate power consumption. Also see Nominal watts.

**Wavelength ( $\lambda$ )** Distance between two successive points of a periodic wave; the wavelengths of light are typically expressed in nanometers (nm), or billionths of a meter.

**Working Distance** (See Focal Distance.)



Click below to order

Interlight Specialty Bulbs

1-800-743-0005

[www.interlight.biz](http://www.interlight.biz)

INCANDESCENT

## INCANDESCENT LIGHTING

The incandescent lamp consists of a wire filament on a suitable mount enclosed in a glass bulb containing a gas or a vacuum. When the lamp is connected to an electrical circuit, the current passing through the wire must overcome the filament's resistance, and the power consumed heats the filament to incandescence (causes it to glow).

### QUALITY LIGHT

Incandescent bulbs are still the standard choice when the quality of light really counts. The different shapes, coatings and features provide a variety of options for many lighting applications. With warm color temperatures and superior color rendering, nothing sets the mood like incandescent lighting.

THE BEST QUALITY OF LIGHT FOR:

*Atmosphere*

*Romance*

*Warmth*

*Beauty*

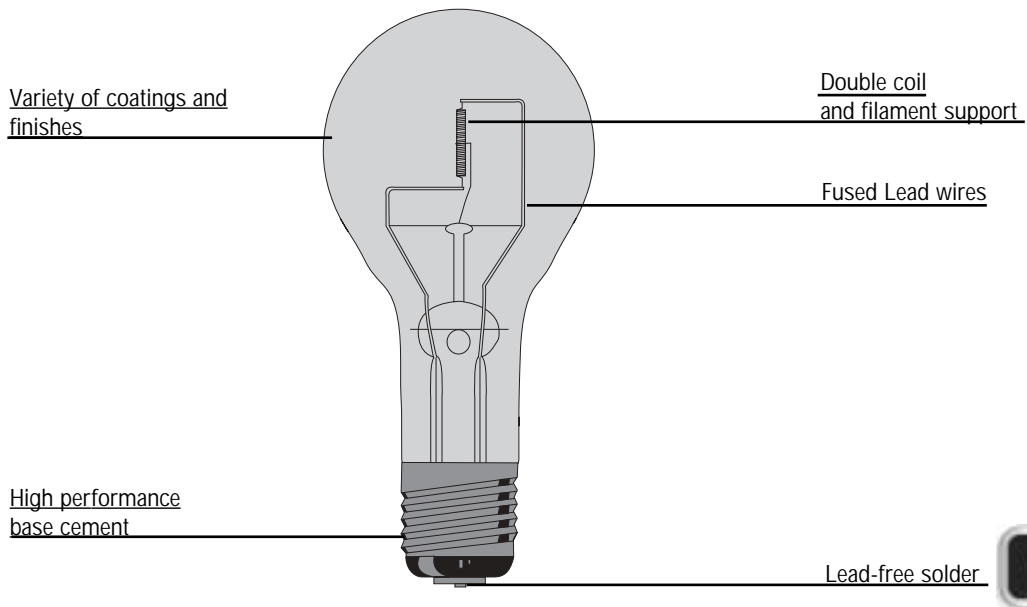
*Comfort*

*Elegance*



### QUALITY CONSTRUCTION

Sylvania uses the highest quality components designed to offer superior performance on every lamp.



## LAMP CATEGORIES

Sylvania offers a wide assortment of premium lighting products that add value through superior performance, long life, beautiful light and rugged durability.

### Double Life

*Our long-life line of premium light bulbs*

Long Life without compromising brightness and light quality

- Lasts up to twice the life of a regular light bulb with almost the same light output
- Available in many different shapes and sizes



Perfect for hard to reach applications

### Daylight™

*Our most pleasing light*

Unique coating that simulates natural light

- Delivers whiter, more Natural light
- Enhances color performance



The best choice to bring more natural light indoors

### Rough Service

*Our toughest line of light bulbs*

Able to withstand knocks and bumps

- Extra support
- Most durable construction



Ideal for applications where lamp may be subject to vibration

### Safeline®

*Our Safest light bulbs*

Shatter resistant, weather resistant

- Safely Contains Glass in case of breakage
- Provides Weather Protection



Appropriate when safety comes first

### Specialty

*Our complete assortment of specialized light bulbs*

Diverse line of light bulbs for specific uses

- Gro-Lux®
- Night Lights
- Appliance Lamps
- Heat Lamps
- Colored Lamps
- Street lighting



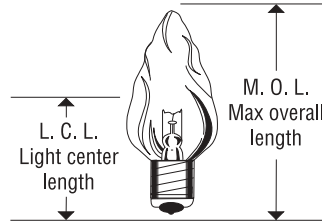
# Interlight Specialty Bulbs

1-800-743-0005

[www.interlight.biz](http://www.interlight.biz)

INCANDESCENT

**Light Center Length (L.C.L.)** is the distance from the center of the light source to the following point for the base used: Screw bases...bottom base contact; Bayonet candelabra and medium bayonet...top of base pins; Medium and Mogul Prefocus...top of base pin; S.C. or D.C.Prefocus - Plane of locating bosses of prefocusing collar.



Bulb size - Max. Diameter (Divide by 8)

A-21 -  $21/8 = 2\ 5/8$ " Dia.

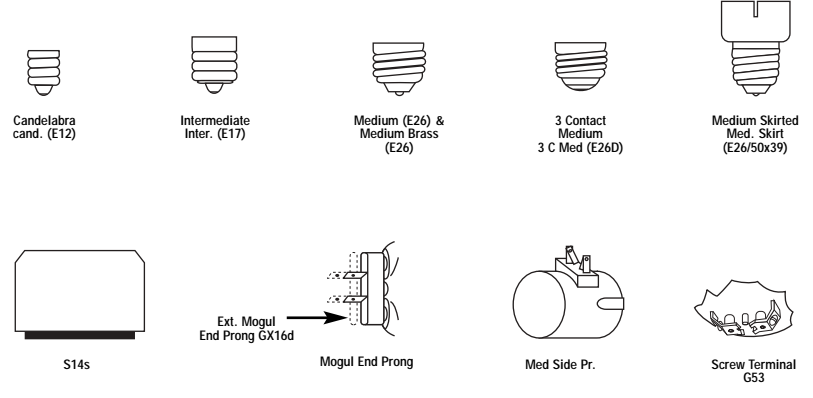
G-40 -  $40/8 = 5$ " Dia.

T-12 -  $12/8 = 1\ 1/2$ " Dia.

PS-30 -  $30/8 = 3\ 3/4$ " Dia.

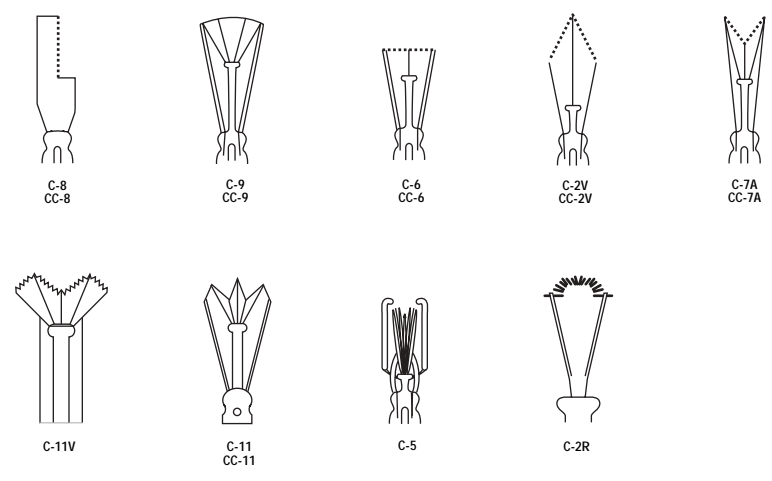
## BASE IDENTIFICATION

Typical bases are shown. One lead-in wire is soldered to the center contact and the other soldered or welded to the upper rim of the base shell. Base shells are typically made of brass or aluminum. ANSI designations are in parentheses.



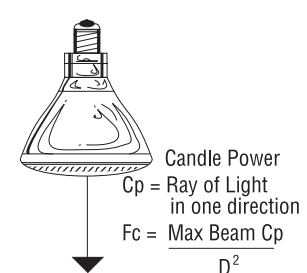
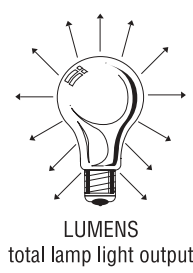
## FILAMENT IDENTIFICATION

A FILAMENT designation consists of a prefix letter to indicate whether the wire is straight or coiled, and a number to indicate the arrangement of the filament on the supports. Prefix letters include: C (coiled) --wire is wound into a helical coil or it may be deeply fluted; CC (coiled coil)--wire is wound into a helical coil and this coiled wire again wound into a helical coil.



## ADDITIONAL INFORMATION

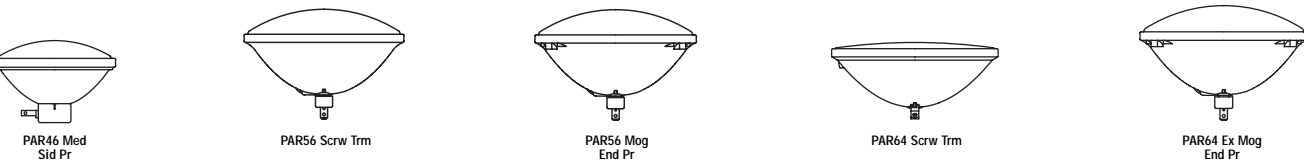
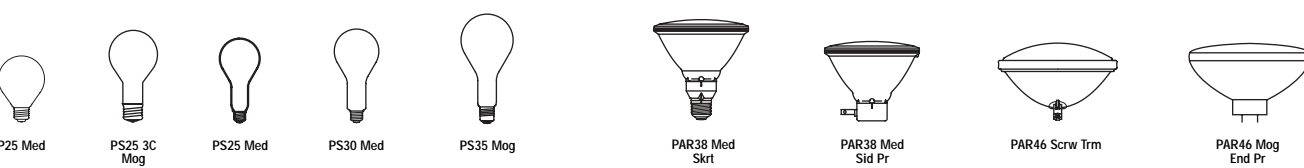
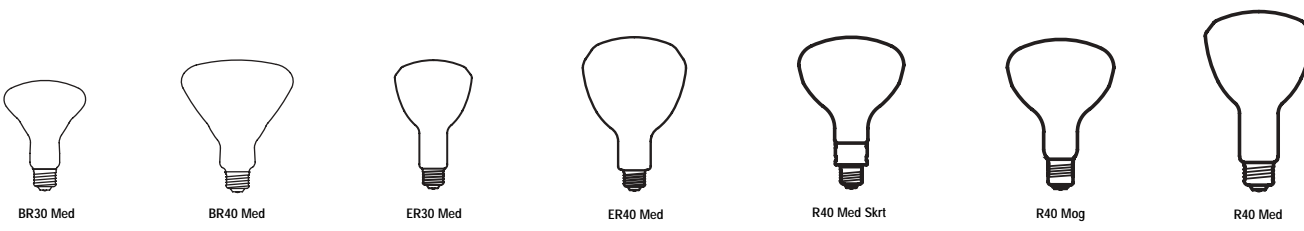
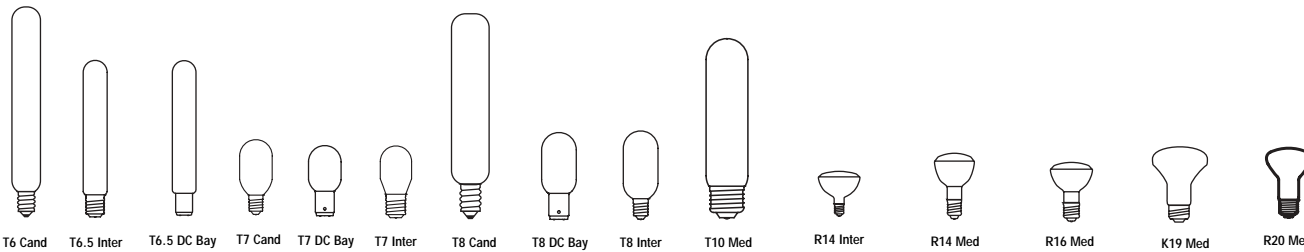
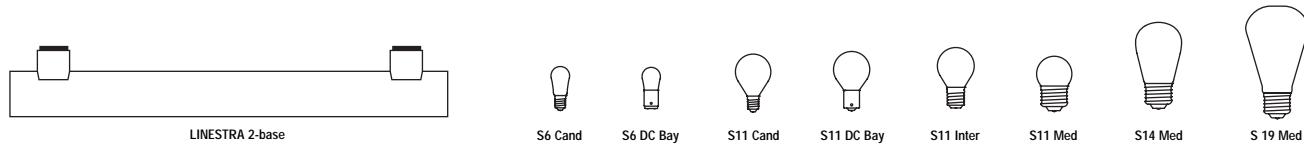
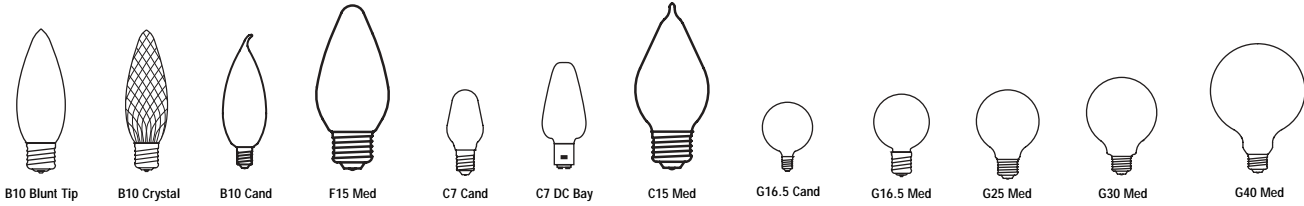
**Lamps Listed** 115-125 volts (design voltage 120), 120-130 volts (design voltage 125), 125-130 volts (design voltage 130) and 230-250 volts (design voltage 240) are intended for use on circuits normally varying within these voltage limits.



- Finishes**
- W - Soft White
  - DAY - Daylight™
  - Y - Yellow
  - B - Blue
  - R - Red
  - G - Green
  - A - Amber
  - IC - Iridescent clear
  - FL - Flood
  - SP - Spot
  - IF - Inside frost
  - BL - Blister
  - AIC - Amber iridescent

## INCANDESCENT LAMP SHAPES

A bulb designation consists of a letter(s) to indicate the shape and a figure(s) to indicate the approximate major diameter in eighths of an inch. For example, an F-15 bulb is a flame-shape, 15/8 of an inch or 1-7/8 inches in diameter.



## HOW TO READ PRODUCT INFORMATION - INCANDESCENT

| Watts                           | Bulb | Base | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Pkg Qty | Description | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP | LCL (in) | MOL (in) |
|---------------------------------|------|------|--|---------------------|-----------------------|---------|-------------|------------------|---------------------|------------------------|----------|----------|
| <b>Bulb</b>                     |      |      | Describes the shape of the envelope followed by the lamp's major diameter given in eighths of an inch. See page 3: Incandescent Lamps.   |                     |                       |         |             |                  |                     |                        |          |          |
| <b>Base</b>                     |      |      | See page 3: Base Identification.   |                     |                       |         |             |                  |                     |                        |          |          |
| <b>Symbols &amp; Footnotes</b>  |      |      | All symbols and footnotes that apply to a specific product will appear in this space. The explanations of the symbols and foot notes are at the end of the incandescent section.   |                     |                       |         |             |                  |                     |                        |          |          |
| <b>Ordering Abbreviation</b>    |      |      | A text description of the lamp. See below for several examples and explanations of some of the codes.  |                     |                       |         |             |                  |                     |                        |          |          |
| <b>Class &amp; Filament</b>     |      |      | The class is either B (vacuum) or C (gas filled). The filament designation describes the shape and mount structure of the filament. See page 3: Filament Identification.   |                     |                       |         |             |                  |                     |                        |          |          |
| <b>Lumens, Beam Angle, CBCP</b> |      |      | This column may contain data for any of these values. Lumen values are followed by the designation 'lm'. Beam angles are indicated by either a '°' or the designation 'V x H' for non-symmetric beams. CBCP values are followed by the designation 'cd'. |                     |                       |         |             |                  |                     |                        |          |          |

## HOW TO READ ORDERING ABBREVIATIONS

| 40B10C/CRYSTAL/DL/BL/2PK |                               | 60A/DLSW/2PK/RP |                      | 65BR30/DL/FL/RP |                               |
|--------------------------|-------------------------------|-----------------|----------------------|-----------------|-------------------------------|
| 40                       | Nominal lamp wattage          | 60              | Nominal lamp wattage | 65              | Nominal lamp wattage          |
| B                        | Bulb shape                    | A               | Bulb shape           | BR              | Bulb shape                    |
| 10                       | Bulb size in 8th's of an inch | DL              | Double life lamp     | 30              | Bulb size in 8th's of an inch |
| C                        | Candelabra base               | SW              | Soft white           | DL              | Double life lamp              |
| CRYSTAL                  | Crystal texture on bulb glass | 2PK             | 2 lamps per package  | FL              | Flood beam pattern            |
| DL                       | Double Life Lamp              | RP              | Retail pack          | RP              | Retail pack                   |
| BL                       | Blister pack                  |                 |                      |                 |                               |
| 2PK                      | 2 lamps per package           |                 |                      |                 |                               |

## INCANDESCENT BRAND NAME GUIDE

NOTE: These tables are intended only as a guide and may represent another lamp company's closest competitive type rather than an identical match. Individual manufacturers' performance values should be consulted. Environmental conditions, ballast type, and other auxiliary equipment may affect lamp performance.

### INCANDESCENT

| SYLVANIA                | GE*                        | PHILIPS**              |
|-------------------------|----------------------------|------------------------|
| Bug-Light               | House Garden - Bug-Lite    | Bug-A-Way              |
| Double Life             | Long Life                  | Longer Life            |
| Double Life Soft White  | Long Life Soft White       | Longer Life Soft White |
| Daylight™               | Reveal                     | Natural                |
| Energy Saver Soft White | Soft White Miser           | Energy Saving          |
| EXCEL-LINE®             | Extended Service           | Extended Service       |
| Linestra®               | Lumiline                   | Philinea               |
| RHINO COAT® SAFELINE®   | COV-R-GUARD                | Silicone Coated        |
| Rough Service           | Ruff-n-Tuff                | Rough Service          |
| Rough Service XL        | Survivor                   |                        |
| Soft Pink               | Soft Pink                  | Pink Softone Pastels   |
| Spot-GRO®               | House Garden - Plant Light | Agro-Lite              |
| SUPERSAVER®             | Watt-Miser                 | Econo-o-Watt           |
| SUPERSAVER EXCEL-LINE   | Watt-Miser Plus            | Extended Service       |
| SUPERSAVER PAR          | Watt-Miser PAR             | Econo-o-PAR            |

\*Trademark and or registered trademark of General Electric Company. \*\*Trademark and or registered trademark of Philips.



A15



A19



G25



R20



A21



BR30



C7 Candelabra



B10

## DAYLIGHT™ LAMPS

| Watts            | Bulb | Base         | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description        | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP       | LCL (in)                      | MOL (in)                       |
|------------------|------|--------------|----------------|---------------------|-----------------------|-------|---------|--------------------|------------------|---------------------|------------------------------|-------------------------------|--------------------------------|
| 40               | A15  | Med          | 10181          | ☼ ●                 | 40A15/DAY/FAN/BL/2/24 | 120   | 24      | Daylight Fan       | C, C-9           | 1000                | 340 lm                       | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub>  |
|                  | A19  | Med          | 11100          | ☼ ●                 | 40A/DAY/RP/2/24       | 120   | 24      | Daylight           | C, CC-8          | 1500                | 350 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 10864          | ☼ ●                 | 40A/DAY/RP/4/48       | 120   | 48      | Daylight           | C, CC-8          | 1500                | 350 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 10897          | ☼ ●                 | 40A/DAY/4/160/RP      | 120   | 160     | Daylight           | C, CC-8          | 1500                | 350 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  | G25  | Med          | 13966          | ☼ ●                 | 40G25/DAY/1/6         | 120   | 6       | Daylight Globe     | C, C-9           | 1500                |                              |                               | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 14002          | ☼ ●                 | 40G25/DAY/1/48        | 120   | 48      | Daylight Globe     | C, C-9           | 1500                |                              |                               | 4 <sup>7</sup> / <sub>16</sub> |
| 50               | R20  | Med          | 15231          | ☼ ●1,2,3,4          | 50R20/DAY/1/6/RP      | 120   | 6       | Daylight Reflector | C, C-9           | 2000                | 240 lm<br>45°<br>400 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |
| 50<br>100<br>150 | A21  | 3CONTACT Med | 18110          | ☼ ▼                 | 50/150/DAY/1/12       | 120   | 12      | Daylight 3-way     | C, CC-8          | 1200                | 490 lm<br>1250 lm<br>1740 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |
|                  |      |              | 18119          | ☼ ▼                 | 50/150/DAY/1/96       | 120   | 96      | Daylight 3-way     | C, CC-8          | 1200                | 490 lm<br>1250 lm<br>1740 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |
| 60               | A19  | Med          | 11101          | ☼ ●                 | 60A/DAY/RP/2/24       | 120   | 24      | Daylight           | C, CC-8          | 1000                | 640 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 11463          | ☼ ●                 | 60A/DAY/RP/4/48       | 120   | 48      | Daylight           | C, CC-8          | 1000                | 640 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 11509          | ☼ ●                 | 60A/DAY/4/160/RP      | 120   | 160     | Daylight           | C, CC-8          | 1000                | 640 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  | G25  | Med          | 13967          | ☼ ●                 | 60G25/DAY/1/6         | 120   | 6       | Daylight Globe     | C, C-9           | 1500                |                              |                               | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 14003          | ☼ ●                 | 60G25/DAY/1/48        | 120   | 48      | Daylight Globe     | C, C-9           | 1500                |                              |                               | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 15223          | ☼ ●1,2,4,5          | 65BR30/DAY/1/6/RP     | 120   | 6       | Daylight Reflector | C, CC-6          | 2000                | 420 lm<br>60°<br>250 cd      |                               | 5 <sup>3</sup> / <sub>16</sub> |
| 75               | A19  | Med          | 11102          | ☼ ●                 | 75A/DAY/RP/2/24       | 120   | 24      | Daylight           | C, CC-8          | 750                 | 850 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 10865          | ☼ ●                 | 75A/DAY/RP/4/48       | 120   | 48      | Daylight           | C, CC-8          | 750                 | 850 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 10863          | ☼ ●                 | 75A/DAY/4/160/RP      | 120   | 160     | Daylight           | C, CC-8          | 750                 | 850 lm                       | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 100              | A19  | Med          | 12952          | ☼ ●                 | 100A/DAY/RP/2/24      | 120   | 24      | Daylight           | C, CC-8          | 750                 | 1270 lm                      | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 12587          | ☼ ●                 | 100A/DAY/RP/4/48      | 120   | 48      | Daylight           | C, CC-8          | 750                 | 1270 lm                      | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|                  |      |              | 12948          | ☼ ●                 | 100A/DAY/4/160/RP     | 120   | 160     | Daylight           | C, CC-8          | 750                 | 1270 lm                      | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |

## DOUBLE LIFE LAMPS

| Watts | Bulb | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation    | Volts       | Pkg Qty | Description                        | Class & Filament                 | Avg Rated Life(hrs) | Lumens Beam Angle CBCP | LCL (in) | MOL (in)                      |
|-------|------|------------|----------------|---------------------|--------------------------|-------------|---------|------------------------------------|----------------------------------|---------------------|------------------------|----------|-------------------------------|
| 4     | C7   | Candelabra | 13523          | ☼ ●                 | 4C7/DL/BL/4PK            | 120         | 48      | Double Life Night Light            | B, C-9                           | 6000                | 14 lm                  |          | 2 <sup>1</sup> / <sub>8</sub> |
| 15    | B10  | Candelabra | 13315          | ☼ ●                 | 15B10C/DL/BL             | 120         | 12      | Clear Double Life Décor Bent Tip   | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
| 25    | B10  | Candelabra | 13306          | ☼ ▼ ●               | 25B10C/DL/BL/4PK         | 120         | 24      | Clear Double Life Décor Bent Tip   | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
|       |      |            | 13316          | ☼ ▼ ●               | 25B10C/DL/BL             | 120         | 12      | Clear Double Life Décor Bent Tip   | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
|       |      |            | 13743          | ☼ ▼ ●               | 25B10C/CRYSTAL/DL/BL/2PK | 120         | 12      | Double Life Crystal Bent Tip       | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
|       |      |            | 13317          | ☼ ▼ ●               | 25B10C/DLF/BL            | 120         | 12      | Frosted Double Life Décor Bent Tip | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
|       |      |            | 13308          | ☼ ▼ ●               | 25B10C/DLF/BL/4PK        | 120         | 24      | Frosted Double Life Décor Bent Tip | C, C-7A                          | 3000                |                        |          | 3 <sup>3</sup> / <sub>8</sub> |
|       |      |            | Med            | 13318               | ☼ ▼ ●6                   | 25B10/DL/BL | 120     | 12                                 | Clear Double Life Décor Bent Tip | C, C-7A             | 3000                   |          |                               |

Click below to order



B10



G25



A21



A15



A19



R20

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INCANDESCENT

## DOUBLE LIFE LAMPS

| Watts           | Bulb       | Base         | Product Number | Symbols & Footnotes       | Ordering Abbreviation    | Volts | Pkg Qty                                    | Description                         | Class & Filament | Avg Rated Life (hrs) | Lumens<br>Beam Angle<br>CBCP  | LCL (in)                       | MOL (in)                       |                                |
|-----------------|------------|--------------|----------------|---------------------------|--------------------------|-------|--|-------------------------------------|------------------|----------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 25              | B10        | Med          | 13331*         | ● ▼ ▲ 6                   | 25B10/DL/BL/4PK          | 120   | 24   | Clear Double Life Décor Bent Tip    | C, C-7A          | 3000                 |                               |                                | 3 <sup>3</sup> / <sub>16</sub> |                                |
|                 | G25        | Med          | 14145          | ● ▲                       | 25G25/DL/RP              | 120   | 6  | Clear Double Life Globe             | C, C-9           | 3000                 |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            |              | 14105          | ● ▲                       | 25G25/DL/RP/48           | 120   | 48   | Clear Double Life Globe             | C, C-9           | 3000                 |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            |              | 14146          | ● ▲                       | 25G25/DLSW/RP            | 120   | 6  | Soft White Double Life Globe        | C, C-9           | 3000                 |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            |              | 14103          | ● ▲                       | 25G25/DLSW/RP/48         | 120   | 48   | Soft White Double Life Globe        | C, C-9           | 3000                 |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
| 30<br>70<br>100 | A21        | 3CONTACT Med | 19380          | ● ▼                       | 30/100A21/DLSW/RP        | 120   | 12   | Soft White Double Life 3-way        | C, CC-8          | 2400                 | 270 lm<br>860 lm<br>1130 lm   | 3 <sup>3</sup> / <sub>8</sub>  | 5 <sup>5</sup> / <sub>16</sub> |                                |
| 32              | B10        | Candelabra   | 13737          | ● ▼ ▲                     | 32B10C/CRYSTAL/DL/BL/2PK | 120   | 12   | Double Life Crystal Bent Tip        | C, C-7A          | 4000                 |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
| 40              | A15        | Med          | 10133          | ●                         | 40A15/CL/DL/BL           | 120   | 12   | Clear Double Life Appliance         | C, C-9           | 2000                 | 350 lm                        | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |
|                 |            |              | 10168*         | ●                         | 40A15/CL/DL/BL/2/24      | 120   | 24   | Clear Double Life Appliance         | C, C-9           | 2000                 | 350 lm                        | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |
|                 |            |              | 10023*         | ●                         | 40A15/CL/DL/FAN/BL/2/24  | 120   | 24   | Clear Double Life Ceiling Fan Light | C, C-9           | 2000                 | 350 lm                        | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |
|                 |            |              | 10046          | ●                         | 40A15/CL/DL/FAN          | 120   | 24   | Clear Double Life Fan Light         | C, C-9           | 2000                 | 350 lm                        | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |
| A19             | Med        | 10939        | ● ▲            | 40A/DLSW/4PK/RP           | 120                      | 48    | Soft White Double Life                     | C, CC-8                             | 3000             | 390 lm               | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |                                |                                |
| B10             | Candelabra | 13319        | ● ▼ ▲          | 40B10C/DL/BL/2PK          | 120                      | 12    | Clear Double Life Décor Bent Tip           | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | 13328        | ● ▼ ▲          | 40B10C/DL/BL/4PK          | 120                      | 24    | Clear Double Life Décor Bent Tip Four Pack | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | 13741        | ● ▼ ▲          | 40B10C/CRYSTAL/DL/BL/2PK  | 120                      | 12    | Double Life Crystal Bent Tip               | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | 13714*       | ● ▼ ▲          | 40B10C/CRYSTAL/DL/BL/4/24 | 120                      | 24    | Double Life Crystal Bent Tip               | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | 13320        | ● ▼ ▲          | 40B10C/DLF/BL/2PK         | 120                      | 12    | Frosted Double Life Décor Bent Tip         | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | 13309*       | ● ▼ ▲          | 40B10C/DLF/BL/4PK         | 120                      | 24    | Frosted Double Life Décor Bent Tip         | C, C-7A                             | 3000             |                      |                               |                                | 3 <sup>7</sup> / <sub>8</sub>  |                                |
|                 |            | Med          | 13321          | ● ▼ ▲ 6                   | 40B10/DL/BL/2PK          | 120   | 12   | Clear Double Life Décor Bent Tip    | C, C-7A          | 3000                 |                               |                                |                                | 3 <sup>3</sup> / <sub>16</sub> |
|                 |            |              | 13740          | ● ▼ ▲ 6                   | 40B10/CRYSTAL/DL/BL/2PK  | 120   | 12   | Double Life Crystal Bent Tip        | C, C-7A          | 3000                 |                               |                                |                                | 3 <sup>3</sup> / <sub>16</sub> |
|                 |            |              | 13723*         | ● ▼ ▲ 6                   | 40B10/CRYSTAL/DL/BL/4PK  | 120   | 24   | Double Life Crystal Bent Tip        | C, C-7A          | 3000                 |                               |                                |                                | 3 <sup>3</sup> / <sub>16</sub> |
|                 |            |              | 13322          | ● ▼ ▲ 6                   | 40B10/DLF/BL/2PK         | 120   | 12   | Frosted Double Life Décor Bent Tip  | C, C-7A          | 3000                 |                               |                                |                                | 3 <sup>3</sup> / <sub>16</sub> |
| G25             | Med        | 14147        | ● ▲            | 40G25/DL/RP               | 120                      | 6     | Clear Double Life Globe                    | C, C-9                              | 3000             |                      |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            | 14174        | ● ▲            | 40G25/DL/1/48             | 120                      | 48    | Clear Double Life Globe                    | C, C-9                              | 3000             |                      |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            | 14148        | ● ▲            | 40G25/DLSW/RP             | 120                      | 6     | Soft White Double Life Globe               | C, C-9                              | 3000             |                      |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
|                 |            | 14175        | ● ▲            | 40G25/DLSW/1/48           | 120                      | 48    | Soft White Double Life Globe               | C, C-9                              | 3000             |                      |                               |                                | 4 <sup>7</sup> / <sub>16</sub> |                                |
| 50              | R20        | Med Brass    | 14943          | 1,2,3,4                   | 50R20/DL/RP              | 120   | 6  | Double Life Reflector Flood         | C, C-9           | 4000                 | 290 lm<br>45°<br>480 cd       |                                | 3 <sup>5</sup> / <sub>16</sub> |                                |



A21



A15



A19



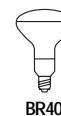
B10



G25



BR30



BR40

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## DOUBLE LIFE LAMPS

| Watts            | Bulb | Base         | Product Number | Symbols & Footnotes | Ordering Abbreviation     | Volts | Pkg Qty | Description                                | Class & Filament | Avg Rated Life (hrs) | Lumens Beam Angle CBCP       | LCL (in) | MOL (in) |
|------------------|------|--------------|----------------|---------------------|---------------------------|-------|---------|--|------------------|----------------------|------------------------------|----------|----------|
| 50<br>100<br>150 | A21  | 3CONTACT Med | 18044          | ●▼                  | 50/150A21/DLSW/RP         | 120   | 12      | Soft White Double Life 3-way               | C, CC-8          | 2400                 | 540 lm<br>1400 lm<br>1940 lm | 3 7/8    | 5 5/16   |
| 60               | A15  | Med          | 10024          | ●                   | 60A15/CL/DL/FAN/BL/2/24   | 120   | 24      | Clear Double Life Fan Light                | C, C-9           | 2000                 | 530 lm                       | 2 3/8    | 3 1/2    |
|                  |      |              | 10048          | ●                   | 60A15/CL/DL/FAN/RP        | 120   | 24      | Clear Double Life Fan Light                | C, C-9           | 2000                 | 530 lm                       | 2 3/8    | 3 1/2    |
|                  | A19  | Med          | 11260          | ●▲                  | 60A/CL/DL/RP              | 120   | 24      | Clear Double Life                          | C, CC-8          | 2000                 | 790 lm                       | 3 1/8    | 4 7/16   |
|                  |      |              | 11227          | ●▲                  | 60A/DLSW/2PK/RP           | 120   | 24      | Soft White Double Life                     | C, CC-8          | 2000                 | 770 lm                       | 3 1/8    | 4 7/16   |
|                  |      |              | 11204          | ●▲                  | 60A/DLSW/4PK/RP           | 120   | 48      | Soft White Double Life                     | C, CC-8          | 2000                 | 770 lm                       | 3 1/8    | 4 7/16   |
|                  | B10  | Candelabra   | 13777          | ●▼▲                 | 60B10C/DL/BL/2PK          | 120   | 12      | Clear Double Life Décor Bent Tip           | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  |      |              | 13705          | ●▼▲                 | 60B10C/DL/BL/4PK          | 120   | 24      | Clear Double Life Décor Bent Tip Four Pack | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  |      |              | 13744          | ●▼▲                 | 60B10C/CRYSTAL/DL/BL/2PK  | 120   | 12      | Double Life Crystal Bent Tip               | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  |      |              | 13749          | ●▼▲                 | 60B10C/CRYSTAL/DL/BL/4/24 | 120   | 24      | Double Life Crystal Bent Tip               | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  |      |              | 13778          | ●▼▲                 | 60B10C/DLF/BL/2PK         | 120   | 12      | Frosted Double Life Décor Bent Tip         | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  |      |              | 13754          | ●▼▲                 | 60B10C/DLF/BL/4PK         | 120   | 24      | Frosted Double Life Décor Bent Tip         | C, C-7A          | 3000                 |                              |          | 3 7/8    |
|                  | Med  |              | 13323          | ●▼▲6                | 60B10/DL/BL/2PK           | 120   | 12      | Clear Double Life Décor Bent Tip           | C, C-7A          | 3000                 |                              |          | 3 13/16  |
|                  |      |              | 13333          | ●▼▲6                | 60B10/DL/BL/4PK           | 120   | 24      | Clear Double Life Décor Bent Tip           | C, C-7A          | 3000                 |                              |          | 3 13/16  |
|                  |      |              | 13324          | ●▼▲6                | 60B10/DLF/BL/2PK          | 120   | 12      | Frosted Double Life Décor Bent Tip         | C, C-7A          | 3000                 |                              |          | 3 13/16  |
|                  | G25  | Med          | 14149          | ●▲                  | 60G25/DL/RP               | 120   | 6       | Clear Double Life Globe                    | C, C-9           | 3000                 |                              |          | 4 7/16   |
|                  |      |              | 14106          | ●▲                  | 60G25/DL/RP/48            | 120   | 48      | Clear Double Life Globe                    | C, C-9           | 3000                 |                              |          | 4 7/16   |
|                  |      |              | 14150          | ●▲                  | 60G25/DLSW/RP             | 120   | 6       | Soft White Double Life Globe               | C, C-9           | 3000                 |                              |          | 4 7/16   |
|                  |      |              | 14104          | ●▲                  | 60G25/DLSW/RP/48          | 120   | 48      | Soft White Double Life Globe               | C, C-9           | 3000                 |                              |          | 4 7/16   |
| 65               | BR30 | Med Brass    | 15177          | 1,2,4,5             | 65BR30/DL/FL/RP           | 120   | 6       | Double Life Reflector Flood                | C, CC-6          | 4000                 | 510 lm<br>60°<br>300 cd      |          | 5 3/8    |
| 75               | A19  | Med          | 11175          | ●▲                  | 75ACL/DL/RP               | 120   | 24      | Clear Double Life                          | C, CC-8          | 1500                 | 1055 lm                      | 3 1/8    | 4 7/16   |
|                  |      |              | 11337          | ●▲                  | 75A/DLSW/2PK/RP           | 120   | 24      | Soft White Double Life                     | C, CC-8          | 1500                 | 1035 lm                      | 3 1/8    | 4 7/16   |
|                  |      |              | 11331          | ●▲                  | 75AW/DLSW/4PK/RP          | 120   | 48      | Soft White Double Life                     | C, CC-8          | 1500                 | 1035 lm                      | 3 1/8    | 4 7/16   |
|                  | BR40 | Med Brass    | 15144          | 2,4,5               | 75BR/DL/FL/RP             | 120   | 6       | Double Life Reflector Flood                | C, CC-6          | 4000                 | 610 lm<br>60°<br>400 cd      |          | 6 1/2    |
|                  |      |              | 15213          | 2,4,5               | 75BR40/DL/FL/1/24         | 120   | 24      | Double Life Reflector Flood                | C, CC-6          | 4000                 | 610 lm<br>60°<br>400 cd      |          | 6 1/2    |
| 100              | A19  | Med          | 11176          | ●▲                  | 100A/CL/DL/RP             | 120   | 24      | Clear Double Life                          | C, CC-8          | 1500                 | 1550 lm                      | 3 1/8    | 4 7/16   |
|                  |      |              | 12805          | ●▲                  | 100A/DLSW/2PK/RP          | 120   | 24      | Soft White Double Life                     | C, CC-8          | 1500                 | 1530 lm                      | 3 1/8    | 4 7/16   |
|                  |      |              | 11332          | ●▲                  | 100A/DLSW/4PK/RP          | 120   | 48      | Soft White Double Life                     | C, CC-8          | 1500                 | 1530 lm                      | 3 1/8    | 4 7/16   |
| 120              | BR40 | Med          | 14915          | 1,2,4,5             | 120BR/DL/FL/RP            | 120   | 6       | Double Life Reflector Flood                | C, CC-6          | 4000                 | 960 lm<br>60°<br>835 cd      |          | 6 1/2    |





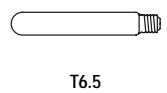
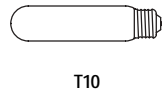
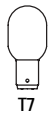
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### GENERAL PURPOSE LAMPS

| Watts | Bulb      | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts   | Pkg Qty | Description                  | Class & Filament             | Avg Rated Life(hrs) | Lumens Beam Angle CBCP | LCL (in) | MOL (in) |       |        |        |
|-------|-----------|------------|----------------|---------------------|-----------------------|---------|---------|------------------------------|------------------------------|---------------------|------------------------|----------|----------|-------|--------|--------|
| 3     | S6        | Candelabra | 16759          | ●7                  | 3S6/5                 | 130     | 240     | Clear Indicator              | B, C-7A                      | 3000                | 12 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16757          | ●                   | 3S6/5                 | 120     | 240     | Clear Indicator              | B, C-7A                      | 3000                | 10 lm                  | 1 7/16   | 1 7/8    |       |        |        |
| 4     | C7        | Candelabra | 13542          | ●                   | 4C7/BL/2PK            | 120     | 24      | Clear Night Light            | B, C-9                       | 3000                | 16 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13549          | ●                   | 4C7/BL/4PK            | 120     | 48      | Clear Night Light            | B, C-9                       | 3000                | 16 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13546          | ●                   | 4C7/BULK              | 120     | 250     | Clear Night Light            | B, C-9                       | 3000                | 16 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13523          | ●                   | 4C7/DL/BL/4PK         | 120     | 48      | Double Life Night Light      | B, C-9                       | 6000                | 14 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13538          | ●                   | 4C7/W/BL/2PK          | 120     | 24      | White Night Light            | B, C-9                       | 3000                | 16 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13553          | ●                   | 4C7/W/BL/4PK          | 120     | 48      | White Night Light            | B, C-7                       | 3000                | 16 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13556          | ●                   | 4C7/BLUE/2PK          | 120     | 24      | Blue Nightlight              | B, C-7A                      | 3000                |                        |          | 2 1/8    |       |        |        |
|       |           |            | 13557          | ●                   | 4C7/PINK/2PK          | 120     | 24      | Pink Nightlight              | B, C-7A                      | 3000                |                        |          | 2 1/8    |       |        |        |
| 6     | S6        | Candelabra | 16929          | ●                   | 6S6/CL24V             | 24      | 120     | Clear Indicator              | B, C-7A                      | 1500                | 48 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16927          | ●                   | 6S6/CL12V             | 12      | 120     | Clear Indicator              | B, C-2R                      | 1500                | 47 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16930          | ●                   | 6S6/CL30V             | 30      | 120     | Clear Casino                 | B, C-7A                      | 1500                | 46 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16962          | ●                   | 6S6/CL/BL             | 120     | 24      | Clear Indicator              | B, C-7A                      | 1500                | 41 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16960          | ●                   | 6S6/CL                | 120     | 120     | Clear Indicator              | B, C-7A                      | 1500                | 41 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16938          | ●                   | 6S6/CL                | 130     | 120     | Clear Indicator              | B, C-7A                      | 1500                | 37 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16943          | ●                   | 6S6/CL155V            | 155     | 120     | Clear Indicator              | B, C-7A                      | 1500                | 36 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | 16942          | ●                   | 6S6/CL145V            | 145     | 120     | Clear Indicator              | B, C-7A                      | 1500                | 33 lm                  | 1 7/16   | 1 7/8    |       |        |        |
|       |           |            | DC Bayonet     |                     |                       | 16782   |         | 6S6DC                        | 120                          | 120                 | Clear Indicator        | B, C-9   | 1500     | 41 lm | 1 7/16 | 1 3/16 |
|       |           |            |                |                     |                       | 16784   |         | 6S6DC                        | 130                          | 120                 | Clear Indicator        | B, C-9   | 1500     | 37 lm | 1 7/16 | 1 3/16 |
|       |           | 16790      |                |                     | 6S6DC145V             | 145     | 120     | Clear Indicator              | B, C-9                       | 1500                | 37 lm                  | 1 7/16   | 1 3/16   |       |        |        |
| S14   | Med Brass |            | 17314          |                     | 6S14                  | 120     | 120     | Clear                        | B, C-9                       | 1500                | 40 lm                  | 2 1/2    | 3 1/2    |       |        |        |
| 7     | C7        | Candelabra | 13543          | ●                   | 7C7/BL/2PK            | 120     | 24      | Clear Night Light            | B, C-9                       | 3000                | 43 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13545          | ●                   | 7C7/BL/4PK            | 120     | 48      | Clear Night Light            | B, C-9                       | 3000                | 43 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13608          | ●                   | 7C7                   | 120     | 120     | Clear Night Light            | B, C-9                       | 3000                | 43 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13609          | ●                   | 7C7                   | 130     | 120     | Clear Night Light            | B, C-9                       | 3000                | 42 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13540          | ●                   | 7C7/W/BL/2PK          | 120     | 24      | White Night Light            | B, C-9                       | 3000                | 33 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13544          | ●                   | 7C7/W/BL/4PK          | 120     | 48      | White Night Light            | B, C-9                       | 3000                | 33 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13623          | ●                   | 7C7/CW                | 120     | 120     | White Night Light            | B, C-9                       | 3000                | 33 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | 13629          | ●                   | 7C7/O                 | 120     | 120     | Orange Nightlight            | B, C-9                       | 3000                |                        |          | 2 1/8    |       |        |        |
|       |           |            | 13626          | ●                   | 7C7/R                 | 120     | 120     | Red Night Light              | B, C-9                       | 3000                |                        |          | 2 1/8    |       |        |        |
| 8     | S11       | Med        | 19353          | ●                   | 7.5S                  | 120     | 120     | Clear                        | B, C-9                       | 1400                | 47 lm                  | 1 9/16   | 2 1/4    |       |        |        |
|       |           |            | 19355          | ●                   | 7.5S                  | 130     | 120     | Clear                        | B, C-9                       | 1400                | 45 lm                  | 1 9/16   | 2 1/4    |       |        |        |
|       |           |            | 19433          | ●                   | 7.5S/CW/BL            | 120     | 12      | Ceramic White Utility Light  | B, C-9                       | 1400                | 32 lm                  |          | 2 1/4    |       |        |        |
|       |           |            | 19420          | ●                   | 7.5S/CW               | 120     | 120     | Ceramic White                | B, C-9                       | 1400                | 32 lm                  |          | 2 1/4    |       |        |        |
|       |           |            | 19424          | ●                   | 7.5S/CR/BL            | 120     | 12      | Ceramic Red                  | B, C-9                       | 1400                |                        |          | 2 1/4    |       |        |        |
|       |           |            | 19423          | ●                   | 7.5S/CR               | 120     | 120     | Ceramic Red                  | B, C-9                       | 1400                |                        |          | 2 1/4    |       |        |        |
| 10    | C7        | Candelabra | 13636          | ●8                  | 10C7/CL               | 120     | 240     | Clear Pilot Light Ruggedized | B, C-7A                      |                     | 38 lm                  |          | 2 1/8    |       |        |        |
|       |           |            | DC Bayonet     | 13527               | 8                     | 10C7/DC | 120     | 120                          | Clear Pilot Light Ruggedized | B, C-7A             |                        | 38 lm    |          | 2 1/8 |        |        |
|       | S6        | Candelabra | 16726          | ●                   | 10S6                  | 120     | 240     | Clear Indicator              | B, C-7A                      | 1500                | 71 lm                  | 1 7/16   | 1 7/8    |       |        |        |



S6

S11

S14

A15

T7

T10

A21

T6.5

## GENERAL PURPOSE LAMPS

| Watts            | Bulb | Base         | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description               | Class & Filament | Avg Rated Life (hrs) | Lumens Beam Angle CBCP      | LCL (in)                       | MOL (in)                       |
|------------------|------|--------------|----------------|---------------------|-----------------------|-------|---------|---------------------------|------------------|----------------------|-----------------------------|--------------------------------|--------------------------------|
| 10               | S6   | Candelabra   | 16717          | ●7                  | 10S6230V              | 230   | 240     | Clear Indicator           | B, CC-7A         | 1500                 | 65 lm                       | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>8</sub>  |
|                  | S11  | Candelabra   | 17025          | ●                   | 10S11/79              | 120   | 120     | Clear                     | B, C-7A          | 1500                 | 78 lm                       | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      | Intermediate | 16917          |                     | 10S11N/CL             | 120   | 120     | Clear Ruggedized          | B, C-7A          | 1500                 | 74 lm                       | 1 <sup>5</sup> / <sub>8</sub>  | 2 <sup>5</sup> / <sub>16</sub> |
|                  |      |              | 16919          |                     | 10S11N/CL             | 130   | 120     | Clear Ruggedized          | B, C-7A          | 1500                 | 74 lm                       | 1 <sup>5</sup> / <sub>8</sub>  | 2 <sup>5</sup> / <sub>16</sub> |
|                  | S14  | Med Brass    | 17406          |                     | 10S14                 | 120   | 120     | Clear Ruggedized          | B, C-9           | 1500                 | 76 lm                       | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17424          |                     | 10S14/IF              | 120   | 120     | Inside Frost Ruggedized   | B, C-9           | 1500                 | 76 lm                       | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
| 11               | S14  | Med Brass    | 17448          |                     | 11S14                 | 120   | 120     | Clear Ruggedized          | B, C-9           | 3000                 | 74 lm                       | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17450          |                     | 11S14                 | 130   | 120     | Clear Ruggedized          | B, C-9           | 3000                 | 72 lm                       | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17453          |                     | 11S14/IF              | 130   | 120     | Inside Frost Ruggedized   | B, C-9           | 3000                 | 68 lm                       | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17489          |                     | 11S14/TB              | 130   | 120     | Transparent Blue          | B, C-9           | 3000                 |                             | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17490          |                     | 11S14/TG              | 130   | 120     | Transparent Green         | B, C-9           | 3000                 |                             | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17487          |                     | 11S14/TR              | 130   | 120     | Transparent Red           | B, C-9           | 3000                 |                             | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 17488          |                     | 11S14/TY              | 130   | 120     | Transparent Yellow        | B, C-9           | 3000                 |                             | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
| 12               | S6   | Candelabra   | 16718          | ●                   | 12S6250V              | 250   | 240     | Clear Indicator           | B, CC-7A         | 1500                 | 61 lm                       | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>8</sub>  |
| 15               | A15  | Med          | 10028          | ●                   | 15A15/CL/RP           | 120   | 24      | Clear Utility Light       | B, C-9           | 2500                 | 105 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10018          | ●                   | 15A15/CL              | 120   | 120     | Clear Utility Light       | B, C-9           | 2500                 | 105 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10019          | ●                   | 15A15/CL              | 130   | 120     | Clear Utility Light       | B, C-9           | 2500                 | 105 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10031          | ●                   | 15A15/RP              | 120   | 24      | Inside Frost              | B, C-9           | 2500                 | 100 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10037          | ●                   | 15A15                 | 120   | 120     | Inside Frost              | B, C-9           | 2500                 | 100 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10038          | ●                   | 15A15                 | 130   | 120     | Inside Frost              | B, C-9           | 2500                 | 100 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10015          | ●                   | 15A15/W/RP            | 120   | 24      | White Utility Light       | C, C-9           | 2500                 | 65 lm                       | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      | Med Brass    | 10083          | ⊗                   | 15A15/CL              | 30    | 120     | Clear                     | B, C-9           | 1000                 | 156 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 10101          |                     | 15A15/BB/IF/PLT       | 130   | 12960   | Inside Frost              | B, C-9           | 2500                 | 100 lm                      | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  |      |              | 11502          |                     | 15A15/R               | 120   | 120     | Red Utility Light         | B, C-9           | 2500                 |                             | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  | S11  | Med          | 17080          | ●                   | 15S11/102/CL          | 120   | 120     | Clear Refrigerator        | B, C-7A          | 400                  | 138 lm                      | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      |              | 17079          | ●                   | 15S11/102/IF          | 120   | 120     | Inside Frost Refrigerator | B, C-7A          | 400                  | 138 lm                      | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  | S14  | Med Brass    | 17240          |                     | 15S14/CL              | 130   | 120     | Clear Ruggedized Sign     | B, C-9           | 3000                 | 106 lm                      | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |
|                  | T6   | Candelabra   | 18036          | ●                   | 15T6/BL               | 145   | 12      | Clear Tubular             | B, C-7A          | 2000                 | 112 lm                      |                                | 3 <sup>1</sup> / <sub>16</sub> |
|                  |      |              | 18078          | ●                   | 15T6145V              | 145   | 60      | Clear Tubular             | B, C-7A          | 2000                 | 112 lm                      |                                | 3 <sup>1</sup> / <sub>16</sub> |
|                  |      |              | 18037          | ●                   | 15T6                  | 120   | 60      | Clear Tubular             | B, C-7A          | 2000                 | 111 lm                      |                                | 3 <sup>1</sup> / <sub>16</sub> |
|                  |      |              | 18038          | ●                   | 15T6                  | 130   | 60      | Clear Tubular             | B, C-7A          | 2000                 | 105 lm                      |                                | 3 <sup>1</sup> / <sub>16</sub> |
|                  | T7   | Candelabra   | 18185          | ●                   | 15T7C                 | 120   | 60      | Clear                     | B, C-7A          | 1000                 | 111 lm                      | 1 <sup>1</sup> / <sub>2</sub>  | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      | DC Bayonet   | 18200          | 9                   | 15T7DC/BL             | 120   | 12      | Clear Carded              | B, C-7A          | 1000                 | 111 lm                      | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      |              | 18208          | 9                   | 15T7DC                | 120   | 60      | Clear                     | B, C-7A          | 1000                 | 111 lm                      | 1 <sup>5</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      | Intermediate | 18174          | 9                   | 15T7N/BL              | 120   | 12      | Clear                     | B, C-7A          | 1000                 | 115 lm                      | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  |      |              | 18173          | 9                   | 15T7N                 | 120   | 60      | Clear                     | B, C-7A          | 1000                 | 115 lm                      | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>4</sub>  |
|                  | T10  | Med          | 18501          | ●7                  | 15T10/CL              | 120   | 60      | Clear Tubular             | B, C-8           | 2500                 | 112 lm                      |                                | 5 <sup>5</sup> / <sub>16</sub> |
| 15<br>135<br>150 | A21  | 3CONTACT Med | 18009          | ●▼                  | 15/150A/SECURITYLIGHT | 120   | 12      | Soft White Security 3-way | C, CC-8          | 1200                 | 80 lm<br>2070 lm<br>2150 lm | 3 <sup>3</sup> / <sub>8</sub>  | 5 <sup>5</sup> / <sub>16</sub> |
| 20               | T6.5 | DC Bayonet   | 18144          | 8                   | 20T6.5DC/IF           | 120   | 60      | Inside Frost Exit Lamp    | B, C-8           | 10000                | 92 lm                       |                                | 5 <sup>5</sup> / <sub>16</sub> |
|                  |      | Intermediate | 18143          | 8                   | 20T6.5/IF             | 120   | 60      | Inside Frost Exit Lamp    | B, C-8           | 10000                | 92 lm                       |                                | 5 <sup>1</sup> / <sub>2</sub>  |

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A15

A19

R14

T6.5

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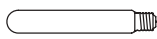
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## GENERAL PURPOSE LAMPS

| Watts | Bulb         | Base        | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts   | Pkg Qty   | Description                | Class & Filament               | Avg Rated Life(hrs)            | Lumens Beam Angle CBCP         | LCL (in)                       | MOL (in)                       |                                |  |  |  |
|-------|--------------|-------------|----------------|---------------------|-----------------------|---|---|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|--|
| 25    | A15          | Med Brass   | 10120          |                     | 25A15/BR              | 120   | 120   | Inside Frost               | B, C-9                         | 1100                           | 210 lm                         | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |  |  |  |
|       |              |             | 10139          |                     | 25A15/RFL             | 130   | 120   | Reflector Sign             | B, C-9                         | 2500                           | 168 lm                         | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  |                                |  |  |  |
|       | A19          | Med         | 11090          | ●                   | 25A/RS                | 120   | 120   | Inside Frost Rough Service | B, C-17                        | 1000                           | 210 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 11092          | ●                   | 25A/RS                | 130   | 120   | Inside Frost Rough Service | B, C-17                        | 1000                           | 210 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 11285          | ●                   | 25A                   | 230   | 120   | Standard Frost             | B, C-17                        | 1000                           | 205 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 10634          | ●                   | 25A/RP                | 120   | 24  | Standard Frost             | B, C-9                         | 2500                           | 190 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 10644          | ●                   | 25A                   | 120   | 120   | Standard Frost             | B, C-9                         | 2500                           | 190 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 11289          | ●                   | 25A                   | 277   | 120   | Standard Frost             | B, C-17                        | 1000                           | 187 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | 10645          | ●11                 | 25A                   | 130   | 120   | Standard Frost             | B, C-9                         | 2500                           | 180 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             |                |                     |                       | <i>@120 volts, approximate 22 watts, 130 lumens, 6250 hours</i> |   |                            |                                |                                |                                |                                |                                |                                |  |  |  |
|       |              |             | 10562          | ●                   | 25A/W/RP              | 120   | 24  | Soft White                 | C, C-9                         | 2500                           | 160 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |  |  |  |
|       |              |             | Med Brass      | 10683               |                       | 25A/CL/RP   | 120   | 24                         | Clear                          | B, C-9                         | 2500                           | 190 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 10693               |                       | 25A/CL  | 120   | 120                        | Clear                          | B, C-9                         | 2500                           | 190 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 10738               |                       | 25A19/CL/GR   | 130   | 120                        | Clear Sign Group Replacement   | B, C-9                         | 3000                           | 185 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 10694               | 11                    | 25A/CL  | 130   | 120                        | Clear                          | B, C-9                         | 2500                           | 180 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                |                     |                       |   | <i>@120 volts, approximate 22 watts, 130 lumens, 6250 hours</i> |                            |                                |                                |                                |                                |                                |                                |  |  |  |
|       |              |             |                | 10449               | ⊗                     | 25A   | 12  | 120                        | Standard Frost                 | B, C-6                         | 1000                           | 385 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 10734               |                       | 25A19/IF/GR   | 130   | 120                        | Inside Frost Group Replacement | B, C-9                         | 3000                           | 185 lm                         | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 11710               |                       | 25A19/TB/RP   | 125   | 6                          | Transparent Blue               | B, C-9                         | 3000                           |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       |              |             |                | 11430               |                       | 25A/B/RP  | 120   | 6                          | Blue                           | B, C-9                         | 2500                           |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |  |  |  |
|       | 11356        |             |                | 25A/B               | 120                   | 120   | Blue  | B, C-9                     | 2500                           |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       | 11714        |             | 25A19/TG/RP    | 125                 | 6                     | Transparent Green   | B, C-9  | 3000                       |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |  |  |  |
|       | 11431        |             | 25A/G/RP       | 120                 | 6                     | Green   | B, C-9  | 2500                       |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |  |  |  |
|       | 11359        |             | 25A/G          | 120                 | 120                   | Green   | B, C-9  | 2500                       |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |  |  |  |
|       | 11711        |             | 25A19/TO/RP    | 125                 | 6                     | Transparent Orange  | B, C-9  | 3000                       |                                | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |  |  |  |
| 11432 |              | 25A/O/RP    | 120            | 6                   | Orange                | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11362 |              | 25A/O       | 120            | 120                 | Orange                | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11712 |              | 25A19/TR/RP | 125            | 6                   | Transparent Red       | B, C-9  | 3000  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11429 |              | 25A/R/RP    | 120            | 6                   | Red                   | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11350 |              | 25A/R       | 120            | 120                 | Red                   | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11713 |              | 25A19/TY/RP | 125            | 6                   | Transparent Yellow    | B, C-9  | 3000  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11427 |              | 25A/Y/RP    | 120            | 6                   | Yellow                | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| 11348 |              | 25A/Y       | 120            | 120                 | Yellow                | B, C-9  | 2500  |                            | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>5</sup> / <sub>16</sub> |                                |                                |                                |                                |  |  |  |
| R14   | Intermediate | 14784       | ●              | 25R14N/RP           | 120                   | 6   | Reflector Mini Flood  | B, CC-2V                   | 1500                           |                                |                                | 2 <sup>3</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       |              | 14793       | ●              | 25R14N              | 120                   | 60  | Reflector Mini Flood  | B, CC-2V                   | 1500                           |                                |                                | 2 <sup>3</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       | Med          | 14818       | ●              | 25R14/RP            | 120                   | 6   | Reflector Mini Flood  | C, CC-2V                   | 1500                           |                                |                                | 2 <sup>1</sup> / <sub>4</sub>  |                                |                                |  |  |  |
| T6.5  | DC Bayonet   | 18129       |                | 25T6.5/DC           | 120                   | 60  | Clear Scale Illuminator   | B, C-8                     | 1000                           | 242 lm                         |                                | 5 <sup>9</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       |              | 18106       |                | 25T6.5/DC           | 130                   | 60  | Clear Scale Illuminator   | B, C-8                     | 1000                           | 242 lm                         |                                | 5 <sup>9</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       |              | 18117       |                | 25T6.5/DC/IF        | 120                   | 60  | Inside Frost Scale Illuminator                                  | B, C-8                     | 1000                           | 225 lm                         |                                | 5 <sup>9</sup> / <sub>16</sub> |                                |                                |  |  |  |
|       | Intermediate | 18495       |                | 25T6.5/BL/6PK       | 120                   | 6   | Clear   | B, C-8                     | 1000                           | 242 lm                         |                                | 5 <sup>1</sup> / <sub>2</sub>  |                                |                                |  |  |  |



T6.5



T8



T10



A15



R20



S11



A21



A19

## GENERAL PURPOSE LAMPS

| Watts   | Bulb  | Base         | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Volts           | Pkg Qty                      | Description                             | Class & Filament     | Avg Rated Life (hrs) | Lumens Beam Angle CBCP      | LCL (in) | MOL (in) |       |  |
|---|---|--------------|--|---------------------|-----------------------|-----------------|------------------------------|---|----------------------|----------------------|-----------------------------|----------|----------|-------|--|
| 25  | T6.5  | Intermediate | 18125  |                     | 25T6.5                | 120             | 60                           | Clear                                   | B, C-8               | 1000                 | 242 lm                      |          | 5 1/2    |       |  |
|   |   |              | 18128  |                     | 25T6.5                | 130             | 60                           | Clear                                   | B, C-8               | 1000                 | 242 lm                      |          | 5 1/2    |       |  |
|   |   |              | 18113  |                     | 25T6.5/IF             | 120             | 60                           | Inside Frost                            | B, C-8               | 1000                 | 225 lm                      |          | 5 1/2    |       |  |
|   |   |              | 18111  |                     | 25T6.5/IF             | 130             | 60                           | Inside Frost                            | B, C-8               | 1000                 | 225 lm                      |          | 5 1/2    |       |  |
|   | T8  | Candelabra   |  | 18290               | ●9                    | 25T8C/BL/1/12   | 120                          | 12                                      | Clear Home Appliance | B, C-7A              | 1000                        | 230 lm   | 1 1/2    | 2 5/8 |  |
|   |   |              |  | 18289               | ●9                    | 25T8C           | 120                          | 60                                      | Clear Home Appliance | B, C-7A              | 1000                        | 230 lm   | 1 1/2    | 2 5/8 |  |
|   |   | DC Bayonet   |  | 18321               | 9                     | 25T8DC/BL       | 120                          | 12                                      | Clear Home Appliance | B, C-7A              | 1000                        | 230 lm   | 1 5/16   | 2 5/8 |  |
|   |   |              |  | 18310               | 9                     | 25T8DC          | 120                          | 60                                      | Clear Home Appliance | B, C-7A              | 1000                        | 230 lm   | 1 5/16   | 2 5/8 |  |
|   |   |              |  | 18316               | 9                     | 25T8DC          | 130                          | 60                                      | Clear Home Appliance | B, C-7A              | 1000                        | 215 lm   | 1 5/16   | 2 5/8 |  |
|   |   | Intermediate |  | 18365               | 9                     | 25T8N/BL        | 120                          | 12                                      | Clear Home Appliance | B, C-7A              | 1000                        | 230 lm   | 1 5/16   | 2 5/8 |  |
|   | 18359   |              |  | 9                   | 25T8N                 | 120             | 60                           | Clear Home Appliance                    | B, C-7A              | 1000                 | 230 lm                      | 1 5/16   | 2 5/8    |       |  |
|   | T10   | Med          |  | 18491               | ●                     | 25T10/CL/BL/6PK | 120                          | 6                                       | Clear                | B, C-8               | 1000                        | 232 lm   |          | 5 5/8 |  |
| 18510   |   |              |  | ●                   | 25T10                 | 120             | 60                           | Clear                                   | B, C-8               | 1000                 | 232 lm                      |          | 5 5/8    |       |  |
| 18512   |   |              |  | ●                   | 25T10                 | 130             | 60                           | Clear                                   | B, C-8               | 1000                 | 232 lm                      |          | 5 5/8    |       |  |
| 18492   |   |              |  | ●                   | 25T10/IF/BL/6PK       | 120             | 6                            | Inside Frost                            | B, C-8               | 1000                 | 230 lm                      |          | 5 5/8    |       |  |
| 18503   |   |              |  | ●                   | 25T10/IF              | 120             | 60                           | Inside Frost                            | B, C-8               | 1000                 | 230 lm                      |          | 5 5/8    |       |  |
| 18505   |   |              |  | ●                   | 25T10/IF              | 130             | 60                           | Inside Frost                            | B, C-8               | 1000                 | 230 lm                      |          | 5 5/8    |       |  |
| Med Brass   |   |              | 18507  |                     | 25T10/BB/277V         | 277             | 60                           | Clear Exit Light                        | B, C-17              | 5000                 | 150 lm                      |          | 5 5/8    |       |  |
| 30  |   | A15          | Med Brass  | 10122               |                       | 30A15           | 130                          | 120                                     | Inside Frost         | C, C-9               | 2000                        | 200 lm   | 2 3/8    | 3 1/2 |  |
|   | <i>@ 120 volts, approximate 26 watts, 150 lumens, 5000 hours.</i> |              |  |                     |                       |                 |                              |   |                      |                      |                             |          |          |       |  |
|   | R20   | Med Brass    | 14836  | 3,12                | 30R20/RP              | 120             | 6                            | Reflector Flood                         | C, C-9               | 2000                 | 140 lm<br>40°               |          | 3 5/16   |       |  |
|   |   |              | 14794  | 3,12                | 30R20                 | 120             | 60                           | Reflector Flood                         | C, C-9               | 2000                 | 140 lm<br>40°               |          | 3 5/16   |       |  |
|   |   |              | 14802  | 11                  | 30R20                 | 130             | 60                           | Reflector Flood                         | C, C-9               | 2000                 | 140 lm<br>40°               |          | 3 5/16   |       |  |
|   | <i>@ 120 volts, approximate 26 watts, 100 lumens, 5000 hours</i>  |              |  |                     |                       |                 |                              |   |                      |                      |                             |          |          |       |  |
| S11   | DC Bayonet  |              | 10765  | ▽                   | 30S11DC75V            | 75              | 120                          | Clear Train Marker                      | C, C-7A              | 500                  | 284 lm                      | 1 1/2    | 2 3/8    |       |  |
| 30<br>70<br>100   | A21   | 3CONTACT Med | 19380  | ●▼                  | 30/100A21/DLSW/RP     | 120             | 12                           | Soft White Double Life 3-way            | C, CC-8              | 2400                 | 270 lm<br>860 lm<br>1130 lm | 3 3/8    | 5 5/16   |       |  |
|   |   |              | 19385  | ●▼12                | 30/100A21/W/RP        | 120             | 12                           | Soft White 3-way                        | C, CC-8              | 1200                 | 300 lm<br>945 lm<br>1245 lm | 3 3/8    | 5 5/16   |       |  |
|   |   |              | 18029  | ●▼12                | 30/100A/W/DIYPACK     | 120             | 48                           | Soft White 3-way                        | C, CC-8              | 1200                 | 300 lm<br>945 lm<br>1245 lm | 3 3/8    | 5 5/16   |       |  |
| 32  | A19   | Med Brass    | 10983  |                     | 32A19/49              | 130             | 120                          | Clear Street Lighting Group Replacement | C, C-9               | 3000                 | 258 lm                      | 2 7/8    | 4 1/4    |       |  |
| <i>@ 120 volts, approximate 28 watts, 200 lumens, 7500 hours.</i> |   |              |  |                     |                       |                 |                              |   |                      |                      |                             |          |          |       |  |
| 34  | A19   | Med          | 11379  | ●☀11                | 40A/34/SS             | 130             | 48                           | Standard Frost SuperSaver               | C, CC-8              | 1500                 | 380 lm                      | 3 3/8    | 4 7/16   |       |  |
|   |   |              | <i>@ 120 volts, approximate 30 watts, 290 lumens, 3750 hours</i> |                     |                       |                 |                              |   |                      |                      |                             |          |          |       |  |
|   |   |              | 11058  | ●☀                  | 40A/34/SS             | 120             | 48                           | Standard Frost SuperSaver               | C, CC-8              | 1500                 | 375 lm                      | 3 3/8    | 4 7/16   |       |  |
|   |   |              | 11391  | ●☀                  | 40A/34/W/ES/4PK       | 120             | 48                           | Soft White Energy Saver                 | C, CC-8              | 1500                 | 375 lm                      | 3 3/8    | 4 7/16   |       |  |
| Med Brass   |   | 11383        | ☀  | 40A/34/SS/XL        | 120                   | 48              | Standard Frost SuperSaver XL | C, CC-8                                 | 2500                 | 310 lm               | 3 3/8                       | 4 7/16   |          |       |  |

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### GENERAL PURPOSE LAMPS

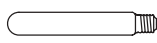
| Watts  | Bulb      | Base      | Product Number | Symbols & Footnotes | Ordering Abbreviation   | Volts | Pkg Qty | Description                         | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP | LCL (in) | MOL (in) |
|--|-----------|-----------|----------------|---------------------|-------------------------|-------|---------|-------------------------------------|------------------|---------------------|------------------------|----------|----------|
| 34   | A19       | Med Brass | 11387          | ☀11                 | 40A/34/SS/XL            | 130   | 48      | Standard Frost SuperSaver XL        | C, CC-8          | 2500                | 310 lm                 | 3 1/8    | 4 7/16   |
| <i>@ 120 volts, approximate 30 watts, 240 lumens, 6250 hours</i> |           |           |                |                     |                         |       |         |                                     |                  |                     |                        |          |          |
| 40   | A15       | Med       | 10181          | ☀●                  | 40A15/DAY/FAN/BL/2/24   | 120   | 24      | Daylight Fan                        | C, C-9           | 1000                | 340 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10133          | ●                   | 40A15/CL/DL/BL          | 120   | 12      | Clear Double Life Appliance         | C, C-9           | 2000                | 350 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10168          | ☀●                  | 40A15/CL/DL/BL/2/24     | 120   | 24      | Clear Double Life Appliance         | C, C-9           | 2000                | 350 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10046          | ●                   | 40A15/CL/DL/FAN         | 120   | 24      | Clear Double Life Fan Light         | C, C-9           | 2000                | 350 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10023          | ☀●                  | 40A15/CL/DL/FAN/BL/2/24 | 120   | 24      | Clear Double Life Ceiling Fan Light | C, C-9           | 2000                | 350 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10082          | ●                   | 40A15/SL                | 120   | 120     | Safeline Appliance                  | C, C-9           | 1000                | 420 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10129          | ●                   | 40A15/CL/BL             | 120   | 12      | Clear Appliance                     | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10141          | ●                   | 40A15/2PK/RP            | 120   | 24      | Clear Appliance                     | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10169          | ☀●                  | 40A15/CL/BL/2/24        | 120   | 24      | Clear Appliance                     | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10042          | ●                   | 40A15/CL/FAN            | 120   | 24      | Clear Ceiling Fan Light             | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10022          | ☀●                  | 40A15/CL/FAN/BL/2/24    | 120   | 24      | Clear Ceiling Fan Light             | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10117          | ●                   | 40A15/IF/BL             | 120   | 12      | Inside Frost Appliance              | C, C-9           | 1000                | 420 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10119          | ●                   | 40A15                   | 120   | 120     | Inside Frost Appliance              | C, C-9           | 1000                | 420 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10127          | ●                   | 40A15/PLT               | 120   | 12960   | Inside Frost Appliance              | C, C-9           | 1000                | 420 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 11111          | ☀●                  | 40A15/SW/FAN/BL/2/24    | 120   | 24      | Soft White Ceiling Fan Light        | C, C-9           | 1000                | 405 lm                 | 2 3/8    | 3 1/2    |
|  | Med Brass |           | 10112          |                     | 40A15/22                | 120   | 120     | Clear Range Oven                    | C, C-9           | 1000                | 430 lm                 | 2 3/8    | 4        |
|  |           |           | 10115          |                     | 40A15/PLT12960          | 120   | 12960   | Inside Frost Appliance              | C, C-9           | 1000                | 420 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10114          |                     | 40A15/PLT12960          | 130   | 12960   | Inside Frost Appliance              | C, C-9           | 1000                | 405 lm                 | 2 3/8    | 3 1/2    |
|  |           |           | 10365          |                     | 40A15/1                 | 250   | 120     | Inside Frost Appliance              | B, C             | 1000                | 330 lm                 | 2 1/2    | 3 1/2    |
| A19  | Med       |           | 11100          | ☀☀●                 | 40A/DAY/RP/2/24         | 120   | 24      | Daylight                            | C, CC-8          | 1500                | 350 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10864          | ☀☀●                 | 40A/DAY/RP/4/48         | 120   | 48      | Daylight                            | C, CC-8          | 1500                | 350 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10897          | ☀☀●                 | 40A/DAY/4/160/RP        | 120   | 160     | Daylight                            | C, CC-8          | 1500                | 350 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10939          | ☀☀●                 | 40A/DLSW/4PK/RP         | 120   | 48      | Soft White Double Life              | C, CC-8          | 3000                | 390 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10938          | ☀☀●                 | 40A/DLSW/4/144/RP       | 120   | 144     | Soft White Double Life              | C, CC-8          | 3000                | 390 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 11223          | ☀☀●                 | 40A/CL/RP               | 120   | 24      | Clear                               | C, CC-8          | 1500                | 480 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 11036          | ☀☀11                | 40A/CL                  | 130   | 120     | Clear                               | C, CC-8          | 1500                | 460 lm                 | 3 1/8    | 4 7/16   |
| <i>@ 120 volts, approximate 35 watts, 350 lumens, 3750 hours</i> |           |           |                |                     |                         |       |         |                                     |                  |                     |                        |          |          |
|  |           |           | 10977          | ☀☀●                 | 40A/W/RP                | 120   | 24      | Soft White                          | C, CC-8          | 1500                | 465 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10996          | ☀☀●                 | 40A/W/4/RP              | 120   | 48      | Soft White                          | C, CC-8          | 1500                | 465 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 10944          | ☀☀●                 | 40A/W/4/144/RP          | 120   | 144     | Soft White                          | C, CC-8          | 1500                | 465 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 11010          | ☀☀●                 | 40A/RP                  | 120   | 24      | Standard Frost                      | C, CC-8          | 1500                | 470 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 11060          | ☀☀●                 | 40A/4/RP                | 120   | 48      | Standard Frost                      | C, CC-8          | 1500                | 470 lm                 | 3 1/8    | 4 7/16   |
|  |           |           | 11011          | ☀☀11                | 40A/CVP                 | 130   | 24      | Standard Frost                      | C, CC-8          | 1500                | 460 lm                 | 3 1/8    | 4 7/16   |
| <i>@ 120 volts, approximate 35 watts, 350 lumens, 3750 hours</i> |           |           |                |                     |                         |       |         |                                     |                  |                     |                        |          |          |
|  |           |           | 11059          | ☀☀11                | 40A                     | 130   | 48      | Standard Frost                      | C, CC-8          | 1500                | 460 lm                 | 3 1/8    | 4 7/16   |
| <i>@ 120 volts, approximate 35 watts, 350 lumens, 3750 hours</i> |           |           |                |                     |                         |       |         |                                     |                  |                     |                        |          |          |
|  | Med Brass |           | 11053          | ☀11                 | 40A/CL/99/XL            | 130   | 120     | Clear Excel-Line SS                 | C, CC-8          | 2500                | 420 lm                 | 3 1/8    | 4 7/16   |
| <i>@ 120 volts, approximate 35 watts, 320 lumens, 6250 hours</i> |           |           |                |                     |                         |       |         |                                     |                  |                     |                        |          |          |



K19, R14



S11



T6.5



T10



BR30



A21



A19



ER30

## GENERAL PURPOSE LAMPS

| Watts           | Bulb | Base         | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description                        | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP       | LCL (in) | MOL (in) |
|-----------------|------|--------------|----------------|---------------------|-----------------------|-------|---------|------------------------------------|------------------|---------------------|------------------------------|----------|----------|
| 40              | K19  | Med          | 10471          | ●                   | 40K19/DR              | 120   | 24      | Inside Frost Directional Reflector | C, CC-6          | 1150                | 385 lm                       |          | 4 1/8    |
|                 | R14  | Intermediate | 14820          | ●                   | 40R14N/RP             | 120   | 6       | Reflector Mini Flood               | C, CC-2V         | 1500                |                              |          | 2 9/16   |
|                 |      | Med          | 14819          | ●                   | 40R14/RP              | 120   | 6       | Reflector Mini Flood               | C, C-9           | 1500                |                              |          | 2 1/4    |
|                 | R16  | Med          | 14821          | ●                   | 40R16/FL/RP           | 120   | 6       | Reflector Mini Flood               | C, C-9           | 1500                |                              |          | 3 3/8    |
|                 | S11  | Intermediate | 13607          | ●                   | 40S11N/BL             | 120   | 12      | Clear Hi Intensity                 | C, C-7A          | 500                 | 440 lm                       | 1 5/8    | 2 5/16   |
|                 |      |              | 13644*         | ●                   | 40S11N/BL/2/12        | 120   | 12      | Clear Hi Intensity                 | C, C-7A          | 500                 | 440 lm                       | 1 5/8    | 2 5/16   |
|                 |      |              | 13595          | ●                   | 40S11N                | 120   | 120     | Clear Hi Intensity                 | C, C-7A          | 500                 | 440 lm                       | 1 5/8    | 2 5/16   |
|                 |      |              | 13600          | ●                   | 40S11N/CL/BULK        | 120   | 500     | Clear Hi Intensity                 | C, C-7A          | 500                 | 440 lm                       | 1 5/8    | 2 5/16   |
|                 | T6.5 | Intermediate | 18152          |                     | 40T6.5/CL/BL/6PK      | 120   | 6       | Clear Appliance                    | C, C-8           | 1000                | 365 lm                       |          | 5 1/2    |
|                 |      |              | 18096          | 13                  | 40T6.5/2              | 120   | 60      | Clear Appliance                    | C, C-8           | 1000                | 365 lm                       |          | 5 1/2    |
|                 | T10  | Med          | 18493          | ●                   | 40T10/CL/BL/6PK       | 120   | 6       | Clear                              | B, C-8           | 1000                | 420 lm                       |          | 5 5/8    |
|                 |      |              | 18650          | ●                   | 40T10                 | 120   | 60      | Clear                              | B, C-8           | 1000                | 420 lm                       |          | 5 5/8    |
|                 |      |              | 18652          | ●                   | 40T10                 | 130   | 60      | Clear                              | B, C-8           | 1000                | 420 lm                       |          | 5 5/8    |
|                 |      |              | 18494          | ●                   | 40T10/IF/BL/6PK       | 120   | 6       | Inside Frost                       | B, C-8           | 1000                | 415 lm                       |          | 5 5/8    |
|                 |      |              | 18664          | ●                   | 40T10/IF              | 120   | 60      | Inside Frost                       | B, C-8           | 1000                | 415 lm                       |          | 5 5/8    |
|                 |      |              | 18669          | ●                   | 40T10/IF              | 130   | 60      | Inside Frost                       | B, C-8           | 1000                | 415 lm                       |          | 5 5/8    |
|                 |      |              | 18656          | ●                   | 40T10/AQUARIUM/RP     | 120   | 6       | Aquarium                           | B, C-8           | 1000                |                              |          | 5 5/8    |
| 45              | BR30 | Med          | 15103          | ●1,2,4,5            | 45BR30/FL/RP          | 120   | 6       | Reflector Flood                    | C, CC-6          | 2000                | 350 lm<br>60°<br>170 cd      |          | 5 3/8    |
| 45<br>95<br>140 | A21  | 3CONTACT Med | 18048          | ●▼                  | 45/140A21/W/ES/RP     | 120   | 12      | Soft White 3-way Energy Saver      | C, CC-8          | 1200                | 540 lm<br>1300 lm<br>1840 lm | 3 3/8    | 5 5/16   |
| 50              | A19  | Med          | 14072          | ●                   | 50A/RS                | 130   | 24      | Inside Frost Rough Service         | C, C-9           | 1000                | 510 lm                       | 2 1/2    | 3 5/16   |
|                 |      |              | 14070          |                     | 50A/RS/2/RP           | 120   | 24      |                                    |                  | 1000                | 510 lm                       |          |          |
|                 |      |              | 11096          |                     | 50A/RS/4/144/RP       | 120   | 144     |                                    |                  | 1000                | 510 lm                       |          |          |
|                 |      |              | 11393          | ●                   | 50A/RS                | 250   | 120     | Inside Frost Rough Service         | C, C-22          | 1000                | 450 lm                       | 2 1/2    | 4 7/16   |
|                 |      |              | 11397          | ●                   | 50A                   | 250   | 120     | Inside Frost                       | B, CC-7A         | 1000                | 490 lm                       | 2 1/2    | 4 7/16   |
|                 |      |              | 11428          | ●                   | 50A                   | 277   | 120     | Inside Frost                       | B, CC-7A         | 1000                | 475 lm                       | 2 1/2    | 4 7/16   |
|                 |      | Med Brass    | 11067          | ⊗14                 | 50A19/RS/CL           | 75    | 120     | Clear Rough Service Train          | C, C-9           | 1000                | 505 lm                       | 2 1/2    | 3 5/16   |
|                 |      |              | 11068          | ⊗14                 | 50A19/RS              | 75    | 120     | Inside Frost Rough Service Train   | C, C-9           | 1000                | 505 lm                       | 2 1/2    | 3 5/16   |
|                 |      |              | 11118          | 15                  | 50A/RS/SL             | 120   | 120     | Safeline Rough Service             | C, C-9           | 1000                | 490 lm                       | 2 1/2    | 3 5/16   |
|                 | A21  | Med Brass    | 11567          | ⊗                   | 50A21/RP              | 12    | 12      | Inside Frost RV-Marine             | C, C-6           | 1000                | 865 lm                       | 3 3/8    | 4 5/16   |
|                 |      |              | 11572          | ⊗                   | 50A21                 | 12    | 24      | Inside Frost RV-Marine             | C, C-6           | 1000                | 865 lm                       | 3 3/8    | 4 5/16   |
|                 |      |              | 11603          | ⊗                   | 50A21                 | 34    | 12      | Inside Frost Train                 | C, C-9           | 1000                | 800 lm                       | 3 7/16   | 4 5/16   |
|                 | ER30 | Med          | 15110          | ●1,4                | 50ER30/RP             | 120   | 6       | Elliptical Reflector Flood         | C, CC-6          | 2000                | 350 lm<br>30°<br>800 cd      |          | 6 3/8    |
|                 |      |              | 15102          | ●1,4                | 50ER30                | 120   | 24      | Elliptical Reflector Flood         | C, CC-6          | 2000                | 350 lm<br>30°<br>800 cd      |          | 6 3/8    |
|                 |      |              | 15107          | ●1,4,11             | 50ER30                | 130   | 24      | Elliptical Reflector Flood         | C, CC-6          | 2000                | 320 lm<br>30°<br>730 cd      |          | 6 3/8    |

@ 120 volts, approximate 44 watts, 240 lumens, 5000 hours

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**GENERAL PURPOSE LAMPS**

| Watts            | Bulb | Base         | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Volts       | Pkg Qty | Description                    | Class & Filament            | Avg Rated Life(hrs) | Lumens Beam Angle CBCP       | LCL (in)                      | MOL (in)                       |                                |  |
|------------------|------|--------------|--|---------------------|-----------------------|-------------|---------|--------------------------------|-----------------------------|---------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--|
| 50               | R20  | Med          | 15231  | ● 1,2,3,4           | 50R20/DAY/1/6/RP      | 120         | 6       | Daylight Reflector             | C, C-9                      | 2000                | 240 lm<br>45°<br>400 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 14844  | ● 1,2,3,4,11        | 50R20/CVP             | 130         | 6       | Reflector Flood                | C, C-9                      | 2000                | 330 lm<br>45°<br>550 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | <i>@ 120 volts, approximate 44 watts, 250 lumens, 5000 hours</i> |                     |                       |             |         |                                |                             |                     |                              |                               |                                |                                |  |
|                  |      |              | 14833  | ● 1,2,3,4           | 50R20/RP              | 120         | 6       | Reflector Flood                | C, C-9                      | 2000                | 330 lm<br>45°<br>550 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 14914  | ● 1,2,3,4           | 50R20/2PK             | 120         | 48      | Reflector Flood                | C, C-9                      | 2000                | 330 lm<br>45°<br>550 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 14831  | ● 1,2,3,4           | 50R20                 | 120         | 60      | Reflector Flood                | C, C-9                      | 2000                | 330 lm<br>45°<br>550 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 14832  | ● 1,2,3,4,11        | 50R20                 | 130         | 60      | Reflector Flood                | C, C-9                      | 2000                | 330 lm<br>45°<br>550 cd      |                               | 3 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | <i>@ 120 volts, approximate 44 watts, 250 lumens, 5000 hours</i> |                     |                       |             |         |                                |                             |                     |                              |                               |                                |                                |  |
|                  |      |              | 14846  | ● 1,2,3,4,11        | 50R20/PINK            | 130         | 60      | Pink Reflector                 | C, C-9                      | 2000                |                              |                               |                                | 3 <sup>5</sup> / <sub>16</sub> |  |
|                  |      |              | Med Brass  | 14943               | 1,2,3,4               | 50R20/DL/RP | 120     | 6                              | Double Life Reflector Flood | C, C-9              | 4000                         | 290 lm<br>45°<br>480 cd       |                                | 3 <sup>5</sup> / <sub>16</sub> |  |
|                  |      |              |  | 14834               | 1,2,3,4               | 50R20/PINK  | 120     | 60                             | Pink Reflector              | C, C-9              | 2000                         |                               |                                | 3 <sup>5</sup> / <sub>16</sub> |  |
|                  |      |              |  | 14842               | 1,2,3,4               | 50R20/GRO   | 120     | 6                              | Spot-GRO Reflector          | C, C-9              | 2000                         |                               |                                | 3 <sup>5</sup> / <sub>16</sub> |  |
| 50<br>100<br>150 | A21  | 3CONTACT Med | 18110  | ●▼                  | 50/150/DAY/1/12       | 120         | 12      | Daylight 3-way                 | C, CC-8                     | 1200                | 490 lm<br>1250 lm<br>1740 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 18119  | ●▼                  | 50/150/DAY/1/96       | 120         | 96      | Daylight 3-way                 | C, CC-8                     | 1200                | 490 lm<br>1250 lm<br>1740 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 18044  | ●▼                  | 50/150A21/DLSW/RP     | 120         | 12      | Soft White Double Life 3-way   | C, CC-8                     | 2400                | 540 lm<br>1400 lm<br>1940 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 18060  | ●▼                  | 50/150A21/W/RP        | 120         | 12      | Soft White 3-way               | C, CC-8                     | 1200                | 640 lm<br>1570 lm<br>2210 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 18028  | ●▼                  | 50/150AW/DIYPACK      | 120         | 48      | Soft White 3-way               | C, CC-8                     | 1200                | 640 lm<br>1570 lm<br>2210 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 18726  | ●▼                  | 50/150A21/SPK/RP      | 120         | 12      | Soft Pink 3-way                | C, CC-8                     | 1200                |                              |                               | 3 <sup>3</sup> / <sub>8</sub>  | 5 <sup>5</sup> / <sub>16</sub> |  |
| 50<br>200<br>250 | A21  | 3CONTACT Med | 19404  | ●▼                  | 50/250A21/W/RP        | 120         | 12      | Soft White Reading Light 3-way | C, CC-8                     | 1200                | 640 lm<br>3300 lm<br>3940 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 19403  | ●▼                  | 50/250A21/2PK         | 120         | 96      | Soft White Reading Light 3-way | C, CC-8                     | 1200                | 640 lm<br>3300 lm<br>3940 lm | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>16</sub> |                                |  |
| 52               | A19  | Med          | 11376  | ●☀                  | 60A/52/SS             | 120         | 48      | Standard Frost SuperSaver      | C, CC-8                     | 1000                | 750 lm                       | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |                                |  |
|                  |      |              | 11380  | ●☀11                | 60A/52/SS             | 130         | 48      | Standard Frost SuperSaver      | C, CC-8                     | 1000                | 710 lm                       | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |                                |  |
|                  |      |              | <i>@ 120 volts, approximate 46 watts, 540 lumens, 2500 hours</i> |                     |                       |             |         |                                |                             |                     |                              |                               |                                |                                |  |
|                  |      |              | 11392  | ●☀                  | 60A/52/W/ES/4PK       | 120         | 48      | Soft White Energy Saver        | C, CC-8                     | 1000                | 715 lm                       | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>16</sub> |                                |  |



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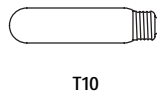
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### GENERAL PURPOSE LAMPS

| Watts  | Bulb      | Base           | Product Number | Symbols & Footnotes | Ordering Abbreviation   | Volts   | Pkg Qty                             | Description                             | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP | LCL (in) | MOL (in) |  |  |
|--|-----------|----------------|----------------|---------------------|-------------------------|---------|-------------------------------------|---|------------------|---------------------|------------------------|----------|----------|--|--|
| 52   | A19       | Med Brass      | 11384          |                     | 60A/52/SS/XL            | 120     | 48                                  | Standard SuperSaver XL                  | C, CC-8          | 2500                | 620 lm                 | 3 1/8    | 4 7/16   |  |  |
|  |           |                | 11388          | 11                  | 60A/52/SS/XL            | 130     | 48                                  | Standard SuperSaver XL                  | C, CC-8          | 2500                | 610 lm                 | 3 1/8    | 4 7/16   |  |  |
| <i>@ 120 volts, approximate 46 watts, 460 lumens, 6250 hours</i> |           |                |                |                     |                         |         |                                     |   |                  |                     |                        |          |          |  |  |
| 58   | A19       | Med Brass      | 11150          |                     | 58A19/62                | 125     | 120                                 | Clear Street Lighting Group Replacement | C, C-9           | 3000                | 650 lm                 | 2 7/8    | 4 1/4    |  |  |
|  |           |                | 11149          |                     | 58A19/62                | 120     | 120                                 | Clear Street Lighting Group Replacement | C, C-9           | 3000                | 630 lm                 | 2 7/8    | 4 1/4    |  |  |
| 60   | A15       | Med            | 10024          |                     | 60A15/CL/DL/FAN/BL/2/24 | 120     | 24                                  | Clear Double Life Fan Light             | C, C-9           | 2000                | 530 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 10048          |                     | 60A15/CL/DL/FAN/RP      | 120     | 24                                  | Clear Double Life Fan Light             | C, C-9           | 2000                | 530 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 10841          |                     | 60A15/CL/FAN/BL/2/24    | 120     | 24                                  | Clear Ceiling Fan Light                 | C, C-9           | 1000                | 700 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 11007          |                     | 60A15/CL/FAN/RP         | 120     | 24                                  | Clear Ceiling Fan Light                 | C, C-9           | 1000                | 700 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 11005          |                     | 60A15/SW/FAN/2PK        | 120     | 24                                  | Soft White Ceiling Fan                  | C, C-9           | 1000                | 680 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 10842          |                     | 60A15/SW/FAN/BL/2/24    | 120     | 24                                  | Soft White Ceiling Fan                  | C, C-9           | 1000                | 680 lm                 | 2 7/8    | 3 1/2    |  |  |
|  |           |                | 10843          |                     | 60A15/GARAGE/BL/2/24    | 120     | 24                                  | Inside Frost Garage Door Lamp           | C, C-9           | 1000                | 690 lm                 | 2 7/8    | 3 1/2    |  |  |
|  | Med Brass | 11008          |                | 60A15/GARAGE/RP     | 120                     | 24      | Inside Frost Garage Door            | C, C-9                                  | 1000             | 690 lm              | 2 7/8                  | 3 1/2    |          |  |  |
|  |           | 10152          |                | 60A15/FR/PLT12960   | 120                     | 12960   | Inside Frost                        | C, C-9                                  | 1000             | 690 lm              | 2 7/8                  | 3 1/2    |          |  |  |
|  | A19       | Med            | 11101          |                     | 60A/DAY/RP/2/24         | 120     | 24                                  | Daylight                                | C, CC-8          | 1000                | 640 lm                 | 3 1/8    | 4 7/16   |  |  |
|  |           |                | 11463          |                     | 60A/DAY/RP/4/48         | 120     | 48                                  | Daylight                                | C, CC-8          | 1000                | 640 lm                 | 3 1/8    | 4 7/16   |  |  |
|  |           |                | 11509          |                     | 60A/DAY/4/160/RP        | 120     | 160                                 | Daylight                                | C, CC-8          | 1000                | 640 lm                 | 3 1/8    | 4 7/16   |  |  |
|  |           |                | 11260          |                     | 60A/CL/DL/RP            | 120     | 24                                  | Clear Double Life                       | C, CC-8          | 2000                | 790 lm                 | 3 1/8    | 4 7/16   |  |  |
|  |           |                | 11227          |                     | 60A/DLSW/2PK/RP         | 120     | 24                                  | Soft White Double Life                  | C, CC-8          | 2000                | 770 lm                 | 3 1/8    | 4 7/16   |  |  |
| 11204  |           |                |                | 60A/DLSW/4PK/RP     | 120                     | 48      | Soft White Double Life              | C, CC-8                                 | 2000             | 770 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| 11201  |           |                |                | 60A/W/DLSW/4/144/RP | 120                     | 144     | Soft White Double Life              | C, CC-8                                 | 2000             | 770 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| 12423  |           |                |                | 60A/CL/RS/2/RP      | 120                     | 24      | Clear Rough Service                 | C, C-9                                  | 1000             | 555 lm              | 2 7/8                  | 4 7/16   |          |  |  |
| 12977  |           |                |                | 60A/RS/RP/1         | 120                     | 12      | Inside Frost Rough Service          | C, C-9                                  | 1000             | 555 lm              | 2 7/8                  | 4 7/16   |          |  |  |
| 13000  |           |                |                | 60A/RS/2/RP         | 120                     | 24      | Inside Frost Rough Service          | C, C-9                                  | 1000             | 555 lm              | 2 7/8                  | 4 7/16   |          |  |  |
| 12420  |           |                |                | 60A/RS/2/RP         | 130                     | 24      | Inside Frost Rough Service          | C, C-9                                  | 1000             | 555 lm              | 2 7/8                  | 4 7/16   |          |  |  |
| <i>@ 120 volts, approximate 53 watts, 420 lumens, 2500 hours</i> |           |                |                |                     |                         |         |                                     |   |                  |                     |                        |          |          |  |  |
| 10503  |           |                |                | 60A/RS/SL/RP        | 120                     | 12      | Safeline Rough Service Inside Frost | C, C-9                                  | 1000             | 555 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| 11224  |           |                |                | 60A/CL/RP           | 120                     | 24      | Clear                               | C, CC-8                                 | 1000             | 880 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| 10553  |           |                |                | 60A/CL              | 120                     | 120     | Clear                               | C, CC-8                                 | 1000             | 880 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| 10558  |           |                |                | 60A/CL/CVP          | 130                     | 24      | Clear                               | C, CC-8                                 | 1000             | 855 lm              | 3 1/8                  | 4 7/16   |          |  |  |
| <i>@ 120 volts, approximate 53 watts, 650 lumens, 2500 hours</i> |           |                |                |                     |                         |         |                                     |   |                  |                     |                        |          |          |  |  |
| 10555  |           | 60A/CL         | 130            | 120                 | Clear                   | C, CC-8 | 1000                                | 855 lm                                  | 3 1/8            | 4 7/16              |                        |          |          |  |  |
| <i>@ 120 volts, approximate 53 watts, 650 lumens, 2500 hours</i> |           |                |                |                     |                         |         |                                     |   |                  |                     |                        |          |          |  |  |
| 11208  |           | 60A/W/RP       | 120            | 24                  | Soft White              | C, CC-8 | 1000                                | 850 lm                                  | 3 1/8            | 4 7/16              |                        |          |          |  |  |
| 11205  |           | 60A/W/4/RP     | 120            | 48                  | Soft White              | C, CC-8 | 1000                                | 850 lm                                  | 3 1/8            | 4 7/16              |                        |          |          |  |  |
| 11200  |           | 60A/W/4/144/RP | 120            | 144                 | Soft White              | C, CC-8 | 1000                                | 850 lm                                  | 3 1/8            | 4 7/16              |                        |          |          |  |  |
| 11214  |           | 60A/RP         | 120            | 24                  | Standard Frost          | C, CC-8 | 1000                                | 870 lm                                  | 3 1/8            | 4 7/16              |                        |          |          |  |  |





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## GENERAL PURPOSE LAMPS

| Watts | Bulb      | Base       | Product Number | Symbols & Footnotes   | Ordering Abbreviation   | Volts | Pkg Qty                       | Description                        | Class & Filament | Avg Rated Life (hrs) | Lumens CBCP             | Beam Angle (in) | LCL (in) | MOL (in) |
|-------|-----------|------------|----------------|---|---|-------|-------------------------------|------------------------------------|------------------|----------------------|-------------------------|-----------------|----------|----------|
| 60    | A19       | Med        | 11180          | ●●  | 60A4/RP   | 120   | 48                            | Standard Frost                     | C, CC-8          | 1000                 | 870 lm                  | 3 1/8           | 4 7/16   |          |
|       |           |            | 10489          | ●●11  | 60A/CVP<br><i>@ 120 volts, approximate 53 watts, 650 lumens, 2500 hours</i> | 130   | 24                            | Standard Frost                     | C, CC-8          | 1000                 | 855 lm                  | 3 1/8           | 4 7/16   |          |
|       |           |            | 11373          | ●●11  | 60A<br><i>@ 120 volts, approximate 53 watts, 650 lumens, 2500 hours</i>     | 130   | 48                            | Standard Frost                     | C, CC-8          | 1000                 | 855 lm                  | 3 1/8           | 4 7/16   |          |
|       |           |            | 11715          | ●▽  | 60A/BLACKLIGHT/RP   | 120   | 6                             | Blacklight                         | C, CC-8          | 1000                 |                         | 3 1/8           | 4 7/16   |          |
|       |           |            | 10576          | ●   | 60A/SPK   | 120   | 24                            | Soft Pink                          | C, CC-8          | 1000                 |                         | 3 1/8           | 4 7/16   |          |
|       |           |            | 12280          | ●●  | 60A/GRO   | 120   | 6                             | Spot-GRO                           | C, C-9           | 1000                 |                         | 3 1/8           | 4 7/16   |          |
|       |           |            | 10390          | ●   | 60A/Y/RP  | 120   | 24                            | Yellow Bug Light                   | C, CC-8          | 1000                 |                         | 3 1/8           | 4 7/16   |          |
|       |           |            | 10386          | ●   | 60A/Y/RP  | 130   | 24                            | Yellow Bug Light                   | C, CC-8          | 1000                 |                         | 3 1/8           | 4 7/16   |          |
|       | Med Brass | 12455      | ●              | 60A/RS/XL<br><i>@ 120 volts, approximate 53 watts, 340 lumens, 12500 hours.</i> | 130   | 24    | Inside Frost Rough Service XL | C, C-9                             | 5000             | 450 lm               | 2 1/8                   | 4 7/16          |          |          |
|       |           | 10640      | ⊗              | 60A   | 24  | 120   | Inside Frost Dental Spot      | C, C-9                             | 1000             | 1010 lm              | 3 1/8                   | 4 7/16          |          |          |
|       | C15       | Med Brass  | 14200          |   | 60C15/FAN/2PK   | 120   | 12                            | Clear Ceiling Fan Light            | C, C-9           | 4000                 | 528 lm                  |                 | 4 1/2    |          |
|       | K19       | Med        | 10483          | ●   | 60K19/DR  | 120   | 24                            | Inside Frost Directional Reflector | C, CC-6          | 1150                 | 630 lm                  |                 | 4 1/8    |          |
|       |           |            | 10485          | ●   | 60K19/DR/2PK  | 120   | 48                            | Inside Frost Directional Reflector | C, CC-6          | 1150                 | 630 lm                  |                 | 4 1/8    |          |
|       | PAR46     | Screw Term | 15199          | ⊠5,16   | 60PAR46   | 38    | 12                            | Locomotive Headlamp                | C, CC-2V         | 800                  |                         |                 | 3 3/4    |          |
| 15201 |           |            | ⊠5,16          | 60PAR46/R   | 38  | 12    | Red Train Warning             | C, CC-2V                           | 800              |                      |                         | 3 3/4           |          |          |
| S19   | Med Brass | 18513      |                | 60S19/CL/LANDMARK   | 120   | 12    | Clear Landmark                | C, C-9                             | 10000            | 520 lm               | 3 1/8                   | 4 7/16          |          |          |
|       |           | 18516      |                | 60S19/LANDMARK  | 120   | 12    | Inside Frost Landmark         | C, C-9                             | 10000            | 480 lm               | 3 1/8                   | 4 7/16          |          |          |
| T10   | Med       | 18710      | ●▽             | 60T10/64  | 120   | 60    | Clear                         | C, C-8                             | 1000             | 655 lm               |                         | 5 5/8           |          |          |
|       |           | 18711      | ●▽             | 60T10/CF  | 120   | 60    | Inside Frost Showcase         | C, C-8                             | 1000             | 630 lm               |                         | 5 5/8           |          |          |
| S14S  |           | 19675      | ▽              | LN60  | 125   | 25    | Opal White LINESTRA 1605      | B, C-8                             | 1000             | 460 lm               |                         | 19 11/16        |          |          |
| 65    | BR30      | Med        | 15223          | ●1,2,4,5  | 65BR30/DAY/1/6/RP   | 120   | 6                             | Daylight Reflector                 | C, CC-6          | 2000                 | 420 lm<br>60°<br>250 cd |                 | 5 3/8    |          |
|       |           |            | 15167          | ●1,2,4,5  | 65BR30/FL/SL/RP   | 130   | 6                             | Reflector Safeline Flood           | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |
|       |           |            | 15149          | ●1,2,4,5  | 65BR30/SP/RP  | 120   | 6                             | Reflector Spot                     | C, CC-6          | 2000                 | 620 lm<br>30°<br>580 cd |                 | 5 3/8    |          |
|       |           |            | 15172          | ●1,2,4,5  | 65BR30/FL/CVP   | 130   | 6                             | Reflector Flood                    | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |
|       |           |            | 15160          | ●1,2,4,5  | 65BR30/FL/RP  | 120   | 6                             | Reflector Flood                    | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |
|       |           |            | 15165          | ●1,2,4,5  | 65BR30/FL   | 120   | 24                            | Reflector Flood                    | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |
|       |           |            | 13129          | ●1,2,4,5  | 65BR30/FL   | 130   | 24                            | Reflector Flood                    | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |
|       |           |            | 15148          | ●1,2,4,5  | 65BR30/TRAY   | 120   | 48                            | Reflector Flood                    | C, CC-6          | 2000                 | 620 lm<br>60°<br>370 cd |                 | 5 3/8    |          |



BR30



PAR38



A19

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## GENERAL PURPOSE LAMPS

| Watts  | Bulb      | Base        | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Volts       | Pkg Qty | Description                  | Class & Filament             | Avg Rated Life(hrs) | Lumens Beam Angle CBCP   | LCL (in) | MOL (in) |       |       |
|--|-----------|-------------|--|---------------------|-----------------------|-------------|---------|------------------------------|------------------------------|---------------------|--------------------------|----------|----------|-------|-------|
| 65   | BR30      | Med         | 15150  | ●1,2,4,5            | 65BR30/A/RP           | 120         | 6       | Amber Reflector Flood        | C, CC-6                      | 2000                |                          |          | 5 3/8    |       |       |
|  |           |             | 15151  | ●1,2,4,5            | 65BR30/B/RP           | 120         | 6       | Blue Reflector Flood         | C, CC-6                      | 2000                |                          |          |          | 5 3/8 |       |
|  |           |             | 15152  | ●1,2,4,5            | 65BR30/G/RP           | 120         | 6       | Green Reflector Flood        | C, CC-6                      | 2000                |                          |          |          | 5 3/8 |       |
|  |           |             | 15153  | ●1,2,4,5            | 65BR30/PK/RP          | 120         | 6       | Pink Reflector Flood         | C, CC-6                      | 2000                |                          |          |          | 5 3/8 |       |
|  |           |             | 15161  | ●1,2,4,5            | 65BR30/R/RP           | 120         | 6       | Red Reflector Flood          | C, CC-6                      | 2000                |                          |          |          | 5 3/8 |       |
|  |           |             | 15156  | ●1,2,4,5            | 65BR30/GRO/RP         | 120         | 6       | Spot-GRO Reflector           | C, CC-6                      | 2000                |                          |          |          |       | 5 3/8 |
|  |           |             | 15154  | ●1,2,4,5            | 65BR30/Y/RP           | 120         | 6       | Yellow Reflector Flood       | C, CC-6                      | 2000                |                          |          |          |       | 5 3/8 |
|  | Med Brass |             | 15177  | 1,2,4,5             | 65BR30/DL/FL/RP       | 120         | 6       | Double Life Reflector Flood  | C, CC-6                      | 4000                | 510 lm<br>60°<br>300 cd  |          | 5 3/8    |       |       |
|  | PAR38     | E26 Med Skt | 13804  | ★☐ⓔ                 | 65PAR/SP              | 120         | 15      | Spot Super Saver             | C, CC-6                      | 1750                | 715 lm<br>12°<br>5500 cd |          | 5 3/8    |       |       |
|  |           |             | 13802  | ★☐ⓔ                 | 65PAR/FL              | 120         | 15      | Flood Super Saver            | C, CC-6                      | 1750                | 715 lm<br>30°<br>1700 cd |          | 5 3/8    |       |       |
|  |           |             | 13805  | ★☐ⓔ11               | 65PAR/FL              | 130         | 15      | Flood Super Saver            | C, CC-6                      | 1750                | 715 lm<br>30°<br>1700 cd |          | 5 3/8    |       |       |
|  |           |             | <i>@ 120 volts, approximate 57 watts, 540 lumens, 4375 hours</i> |                     |                       |             |         |                              |                              |                     |                          |          |          |       |       |
| 67   | A19       | Med         | 11377  | ●☐                  | 75A/67/SS             | 120         | 48      | Standard Frost SuperSaver    | C, CC-8                      | 750                 | 1050 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 11381  | ●☐11                | 75A/67/SS             | 130         | 48      | Standard Frost SuperSaver    | C, CC-8                      | 750                 | 1020 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | <i>@ 120 volts, approximate 59 watts, 780 lumens, 1875 hours</i> |                     |                       |             |         |                              |                              |                     |                          |          |          |       |       |
|  |           |             | 11394  | ●☐                  | 75A/67/N/ES/4PK       | 120         | 48      | Soft White Energy Saver      | C, CC-8                      | 750                 | 1040 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | Med Brass  | 11385               | ☐                     | 75A/67/SSXL | 120     | 48                           | Standard Frost SuperSaver XL | C, CC-8             | 2500                     | 880 lm   | 3 1/8    | 4 7/8 |       |
|  |           |             | 11389  | ☐11                 | 75A/67/SSXL           | 130         | 48      | Standard Frost SuperSaver XL | C, CC-8                      | 2500                | 860 lm                   | 3 1/8    | 4 7/8    |       |       |
|  |           |             | <i>@ 120 volts, approximate 59 watts, 660 lumens, 6250 hours</i> |                     |                       |             |         |                              |                              |                     |                          |          |          |       |       |
| 75   | A19       | Med         | 11102  | ●☐                  | 75A/DAY/RP/2/24       | 120         | 24      | Daylight                     | C, CC-8                      | 750                 | 850 lm                   | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 10865  | ●☐                  | 75A/DAY/RP/4/48       | 120         | 48      | Daylight                     | C, CC-8                      | 750                 | 850 lm                   | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 10863  | ●☐                  | 75A/DAY/4/160/RP      | 120         | 160     | Daylight                     | C, CC-8                      | 750                 | 850 lm                   | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 11175  | ●☐                  | 75ACL/DL/RP           | 120         | 24      | Clear Double Life            | C, CC-8                      | 1500                | 1055 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 11337  | ●☐                  | 75A/DLSW/2PK/RP       | 120         | 24      | Soft White Double Life       | C, CC-8                      | 1500                | 1035 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 11331  | ●☐                  | 75A/W/DLSW/4PK/RP     | 120         | 48      | Soft White Double Life       | C, CC-8                      | 1500                | 1035 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 11360  | ●☐                  | 75A/W/DLSW/4/144/RP   | 120         | 144     | Soft White Double Life       | C, CC-8                      | 1500                | 1035 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 12579  | ●☐                  | 75A/RS/RP/1           | 120         | 12      | Inside Frost Rough Service   | C, C-9                       | 1000                | 818 lm                   | 2 7/8    | 4 7/8    |       |       |
|  |           |             | 13001  | ●☐                  | 75A/RS/2/RP           | 120         | 24      | Inside Frost Rough Service   | C, C-9                       | 1000                | 818 lm                   | 2 7/8    | 4 7/8    |       |       |
|  |           |             | 12586  | ●☐11                | 75A/RS/RP/1           | 130         | 24      | Inside Frost Rough Service   | C, C-9                       | 1000                | 818 lm                   | 2 7/8    | 4 7/8    |       |       |
|  |           |             | <i>@ 120 volts, approximate 66 watts, 620 lumens, 2500 hours</i> |                     |                       |             |         |                              |                              |                     |                          |          |          |       |       |
|  |           |             | 11225  | ●☐                  | 75A/CL/RP             | 120         | 24      | Clear                        | C, CC-8                      | 750                 | 1200 lm                  | 3 1/8    | 4 7/8    |       |       |
|  |           |             | 12500  | ●☐                  | 75A/CL                | 120         | 120     | Clear                        | C, CC-8                      | 750                 | 1200 lm                  | 3 1/8    | 4 7/8    |       |       |
| 12502  | ●☐11      | 75A/CL      | 130  | 120                 | Clear                 | C, CC-8     | 750     | 1190 lm                      | 3 1/8                        | 4 7/8               |                          |          |          |       |       |
| <i>@ 120 volts, approximate 66 watts, 920 lumens, 1875 hours</i> |           |             |  |                     |                       |             |         |                              |                              |                     |                          |          |          |       |       |



## GENERAL PURPOSE LAMPS

| Watts | Bulb           | Base      | Product Number | Symbols & Footnotes  | Ordering Abbreviation  | Volts         | Pkg Qty                             | Description                     | Class & Filament            | Avg Rated Life (hrs)      | Lumens Beam Angle CBCP | LCL (in)                | MOL (in) |       |
|-------|----------------|-----------|----------------|--|--|---------------|-------------------------------------|---------------------------------|-----------------------------|---------------------------|------------------------|-------------------------|----------|-------|
| 75    | A19            | Med       | 10967          | ●  | 75AW/RP  | 120           | 24                                  | Soft White                      | C, CC-8                     | 750                       | 1170 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 10970          | ●  | 75AW/4/RP  | 120           | 48                                  | Soft White                      | C, CC-8                     | 750                       | 1170 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 10941          | ●  | 75AW/4/144/RP  | 120           | 144                                 | Soft White                      | C, CC-8                     | 750                       | 1170 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 12510          | ●  | 75A/CVP<br>@ 120 volts, approximate 66 watts, 920 lumens, 1875 hours | 130           | 24                                  | Standard Frost                  | C, CC-8                     | 750                       | 1190 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 12521          | ●  | 75A/RP   | 120           | 24                                  | Standard Frost                  | C, CC-8                     | 750                       | 1190 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 11374          | ●  | 75A<br>@ 120 volts, approximate 66 watts, 920 lumens, 1875 hours     | 130           | 48                                  | Standard Frost                  | C, CC-8                     | 750                       | 1190 lm                | 3 1/8                   | 4 7/16   |       |
|       |                |           | 12525          | ●  | 75A/4/RP   | 120           | 48                                  | Standard Frost                  | C, CC-8                     | 750                       | 1190 lm                | 3 1/8                   | 4 7/16   |       |
|       | Med Brass      | 12528     | ●              | 75A/RS/XL<br>@ 120 volts, approximate 66 watts, 500 lumens, 12500 hours. | 130  | 24            | Inside Frost Rough Service XL       | C, C-9                          | 5000                        | 700 lm                    | 2 7/8                  | 4 7/16                  |          |       |
| A21   | Med            | 12554     | ●              | 15 75A21/RS/SL/RP  | 120  | 12            | Safeline Rough Service Inside Frost | C, C-9                          | 1000                        | 800 lm                    | 3 1/8                  | 4 7/16                  |          |       |
|       |                | Med Brass | 11566          | ⊗  | 75A21  | 12            | 24                                  | Inside Frost RV-Marine          | C, C-6                      | 1000                      | 1420 lm                | 3 1/8                   | 5 9/16   |       |
| BR38  | Med            | 15620     | ★              | 1,4 75/OPAR/BUG/RP   | 120  | 6             | Outdoor Bug Light                   | C, CC-6                         | 2000                        |                           |                        | 5 9/16                  |          |       |
|       |                | Med Brass | 15618          | ★  | 1,4 75/OPAR/FL/RP  | 120           | 6                                   | Outdoor Reflector Economy Flood | C, CC-6                     | 2000                      | 650 lm<br>45°          |                         | 5 9/16   |       |
|       |                | 15607     | ★              | 1,4,17 75/OPAR/FL  | 120  | 12            | Outdoor Reflector Economy Flood     | C, CC-6                         | 2000                        | 650 lm<br>45°             |                        | 5 9/16                  |          |       |
| BR40  | Med            | 15128     | ●              | 2,4,5 75BR/FL/RP   | 120  | 6             | Reflector Flood                     | C, CC-6                         | 2000                        | 680 lm<br>60°<br>460 cd   |                        | 6 1/2                   |          |       |
|       |                | 15126     | ●              | 2,4,5 75BR/FL  | 120  | 24            | Reflector Flood                     | C, CC-6                         | 2000                        | 680 lm<br>60°<br>460 cd   |                        | 6 1/2                   |          |       |
|       |                | 15125     | ●              | 2,4,5,11 75BR/FL   | 130  | 24            | Reflector Flood                     | C, CC-6                         | 2000                        | 680 lm<br>60°<br>460 cd   |                        | 6 1/2                   |          |       |
|       |                |           | Med Brass      | 15144  | 2,4,5  | 75BR/DL/FL/RP | 120                                 | 6                               | Double Life Reflector Flood | C, CC-6                   | 4000                   | 610 lm<br>60°<br>400 cd |          | 6 1/2 |
|       |                | 15213     | 2,4,5          | 75BR40/DL/FL/1/24  | 120  | 24            | Double Life Reflector Flood         | C, CC-6                         | 4000                        | 610 lm<br>60°<br>400 cd   |                        | 6 1/2                   |          |       |
| ER30  | Med            | 15109     | ●              | 1,2,4,5 75ER30/RP  | 120  | 6             | Elliptical Reflector Flood          | C, CC-6                         | 2000                        | 580 lm<br>30°<br>1500 cd  |                        | 6 3/8                   |          |       |
|       |                | 15100     | ●              | 1,2,4,5 75ER30   | 120  | 24            | Elliptical Reflector Flood          | C, CC-6                         | 2000                        | 580 lm<br>30°<br>1500 cd  |                        | 6 3/8                   |          |       |
|       |                | 15101     | ●              | 1,2,4,5,11 75ER30  | 130  | 24            | Elliptical Reflector Flood          | C, CC-6                         | 2000                        | 580 lm<br>30°<br>1500 cd  |                        | 6 3/8                   |          |       |
|       |                |           |                | @ 120 volts, approximate 66 watts, 440 lumens, 5000 hours                |  |               |                                     |                                 |                             |                           |                        |                         |          |       |
| K19   | Med            | 12583     | ●              | 75K19/DR   | 120  | 24            | Inside Frost Directional Reflector  | C, CC-6                         | 1150                        | 855 lm                    |                        | 4 1/8                   |          |       |
| PAR38 | Med Side Prong | 13850     | ★              | 75PAR/3FL  | 120  | 12            | Compact Flood                       | C, CC-6                         | 2000                        | 1040 lm<br>30°<br>1800 cd |                        | 4 9/16                  |          |       |
| R20   | Med            | 14840     | ●              | 3,12 75R20/RP  | 120  | 6             | Reflector Flood                     | C, CC-9                         | 2000                        | 500 lm<br>45°<br>500 cd   |                        | 3 5/16                  |          |       |

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**GENERAL PURPOSE LAMPS**

| Watts | Bulb | Base      | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description                     | Class & Filament | Avg Rated Life(hrs) | Lumens CBCP | Beam Angle | LCL (in) | MOL (in) |
|-------|------|-----------|--|---------------------|-----------------------|-------|---------|---------------------------------|------------------|---------------------|-------------|------------|----------|----------|
| 75    | R30  | Med       | 15146  | ●▽                  | 75R30/BLACKLIGHT/RP   | 120   | 6       | Blacklight                      | C, CC-6          | 1000                |             |            |          | 6 1/2    |
| 90    | A19  | Med       | 11378  | ●                   | 100A/90/SS            | 120   | 48      | Standard Frost SuperSaver       | C, CC-8          | 750                 | 1480 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 11382  | ●                   | 100A/90/SS            | 130   | 48      | Standard Frost SuperSaver       | C, CC-8          | 750                 | 1480 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 79 watts, 1130 lumens, 1875 hours</i>  |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
|       |      |           | 11396  | ●                   | 100A/90/W/ES/4PK      | 120   | 48      | Soft White Energy Saver         | C, CC-8          | 750                 | 1450 lm     | 3 1/8      | 4 7/16   |          |
|       |      | Med Brass | 11386  | ●                   | 100A/90/SS/XL         | 120   | 48      | Standard Frost SuperSaver XL    | C, CC-8          | 2500                | 1220 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 11390  | ●                   | 100A/90/SS/XL         | 130   | 48      | Standard Frost SuperSaver XL    | C, CC-8          | 2500                | 1230 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 79 watts, 940 lumens, 6250 hours</i>   |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
| 100   | A19  | Med       | 12952  | ●                   | 100A/DAY/RP/2/24      | 120   | 24      | Daylight                        | C, CC-8          | 750                 | 1270 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12587  | ●                   | 100A/DAY/RP/4/48      | 120   | 48      | Daylight                        | C, CC-8          | 750                 | 1270 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12948  | ●                   | 100A/DAY/4/160/RP     | 120   | 160     | Daylight                        | C, CC-8          | 750                 | 1270 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 11176  | ●                   | 100A/CL/DL/RP         | 120   | 24      | Clear Double Life               | C, CC-8          | 1500                | 1550 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12805  | ●                   | 100A/DLSW/2PK/RP      | 120   | 24      | Soft White Double Life          | C, CC-8          | 1500                | 1530 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 11332  | ●                   | 100A/DLSW/4PK/RP      | 120   | 48      | Soft White Double Life          | C, CC-8          | 1500                | 1530 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 11365  | ●                   | 100A/DLSW/4/144/RP    | 120   | 144     | Soft White Double Life          | C, CC-8          | 1500                | 1530 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12997  | ●                   | 100A/RS/RP/1          | 120   | 12      | Inside Frost Rough Service      | C, C-9           | 1000                | 1260 lm     | 2 7/8      | 4 7/16   |          |
|       |      |           | 13002  | ●                   | 100A/RS/2/RP          | 120   | 24      | Inside Frost Rough Service      | C, C-9           | 1000                | 1260 lm     | 2 7/8      | 4 7/16   |          |
|       |      |           | 12998  | ●                   | 100A/RS/2/RP          | 130   | 24      | Inside Frost Rough Service      | C, C-9           | 1000                | 1200 lm     | 2 7/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 960 lumens, 2500 hours</i>   |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
|       |      |           | 11226  | ●                   | 100A/CL/RP            | 120   | 24      | Clear                           | C, CC-8          | 750                 | 1720 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12529  | ●                   | 100A/CL               | 120   | 120     | Clear                           | C, CC-8          | 750                 | 1720 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12531  | ●                   | 100A/CL               | 130   | 120     | Clear                           | C, CC-8          | 750                 | 1700 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 1295 lumens, 1875 hours</i>  |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
|       |      |           | 12752  | ●                   | 100A/W/RP             | 120   | 24      | Soft White                      | C, CC-8          | 750                 | 1690 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12770  | ●                   | 100A/W/4/RP           | 120   | 48      | Soft White                      | C, CC-8          | 750                 | 1690 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12796  | ●                   | 100A/W/4/144/RP       | 120   | 144     | Soft White                      | C, CC-8          | 750                 | 1690 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12735  | ●                   | 100A/RP               | 120   | 24      | Standard Frost                  | C, CC-8          | 750                 | 1710 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12750  | ●                   | 100A/4/RP             | 120   | 48      | Standard Frost                  | C, CC-8          | 750                 | 1710 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12530  | ●                   | 100A/LHT              | 120   | 120     | Standard Frost Left Hand Thread | C, CC-8          | 750                 | 1710 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | 12709  | ●                   | 100A/CVP              | 130   | 24      | Standard Frost                  | C, CC-8          | 750                 | 1700 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 1290 lumens, 1875 hours</i>  |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
|       |      |           | 11375  | ●                   | 100A                  | 130   | 48      | Standard Frost                  | C, CC-8          | 750                 | 1700 lm     | 3 1/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 1290 lumens, 1875 hours</i>  |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
|       |      |           | 12766  | ●                   | 100A/SPK/RP           | 120   | 24      | Soft Pink                       | C, CC-8          | 1000                |             | 3 1/8      | 4 7/16   |          |
|       |      |           | 12763  | ●                   | 100A/Y/RP             | 120   | 24      | Yellow Bug Light                | C, CC-8          | 1000                |             | 3 1/8      | 4 7/16   |          |
|       |      | Med Brass | 12559  | ●                   | 100A/RS/XL            | 130   | 24      | Inside Frost Rough Service XL   | C, C-9           | 5000                | 1040 lm     | 2 7/8      | 4 7/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 760 lumens, 12500 hours.</i> |                     |                       |       |         |                                 |                  |                     |             |            |          |          |
| A21   | Med  |           | 13218  | ●                   | 100A21/NS             | 130   | 48      | Inside Frost Vibration Service  | C, C-9           | 1000                | 1340 lm     | 3 1/8      | 5 3/16   |          |
|       |      |           | <i>@ 120 volts, approximate 88 watts, 1020 lumens, 2500 hours.</i> |                     |                       |       |         |                                 |                  |                     |             |            |          |          |

INCANDESCENT



A21

A23

BR38

BR40

K19

PAR38

PAR46

## GENERAL PURPOSE LAMPS

| Watts  | Bulb        | Base  | Product Number  | Symbols & Footnotes | Ordering Abbreviation | Volts           | Pkg Qty                            | Description                     | Class & Filament                       | Avg Rated Life (hrs)    | Lumens CBCP | Beam Angle | LCL (in) | MOL (in) |        |  |  |
|--|-------------|-------|---|---------------------|-----------------------|-----------------|------------------------------------|---------------------------------|--|-------------------------|-------------|------------|----------|----------|--------|--|--|
| 100  | A21         | Med   | 13404   | ●                   | 100A21                | 230             | 24                                 | Standard Frost                  | C, C-9                                 | 1000                    | 1260 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | 13406   | ●                   | 100A21                | 250             | 24                                 | Standard Frost                  | C, C-9                                 | 1000                    | 1230 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | 13397   | ● C                 | 100A21                | 277             | 24                                 | Standard Frost                  | C, C-7A                                | 1000                    | 1042 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | 12866   | ●                   | 100A21                | 120             | 48                                 | Standard Frost                  | C, CC-8                                | 750                     | 1675 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | 12909   | ●                   | 100A21/LHT            | 120             | 48                                 | Standard Frost Left Hand Thread | C, CC-8                                | 750                     | 1675 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | 12883   | ● 11                | 100A21                | 130             | 48                                 | Standard Frost                  | C, CC-8                                | 750                     | 1650 lm     | 3 7/8      | 5 5/16   |          |        |  |  |
|  |             |       | <i>@ 120 volts, approximate 88 watts, 1260 lumens, 1875 hours</i> |                     |                       |                 |                                    |                                 |  |                         |             |            |          |          |        |  |  |
|  |             |       | Med Brass   | 12946               | 11                    | 100A21/99/XL    | 130                                | 48                              | Standard Frost Excel                   | C, CC-8                 | 2500        | 1440 lm    | 3 7/8    | 5 5/16   |        |  |  |
|  |             |       | <i>@ 120 volts, approximate 88 watts, 1100 lumens, 6250 hours</i> |                     |                       |                 |                                    |                                 |  |                         |             |            |          |          |        |  |  |
|  |             |       |   | 12906               |                       | 100A21/99/XL    | 120                                | 48                              | Standard Frost Excel                   | C, CC-8                 | 2500        | 1400 lm    | 3 7/8    | 5 5/16   |        |  |  |
|  |             |       |   | 12834               | 15                    | 100A21/SL       | 120                                | 48                              | Safeline Rhinocoat (Shatter Protected) | C, CC-8                 | 750         | 1675 lm    | 3 7/8    | 5 5/16   |        |  |  |
|  |             |       |   | 12992               | 15                    | 100A21/RS/SL/RP | 120                                | 12                              | Safeline Rough Service                 | C, C-9                  | 1000        | 1260 lm    | 3 7/8    | 4 7/16   |        |  |  |
|  |             |       | A23   | Med                 | 12859                 | ● ☉ ☉           | 100A23                             | 34                              | 12                                     | Inside Frost            | C, C-9      | 1000       | 1800 lm  | 4 3/8    | 6 1/16 |  |  |
|  |             |       |   | Med Brass           | 13280                 |                 | 100A23/20                          | 120                             | 24                                     | Clear Oven              | C, C-9      | 750        | 1390 lm  | 4 3/8    | 6 1/16 |  |  |
|  |             |       |   |                     | 12858                 | ☉ ☉             | 100A23                             | 12                              | 24                                     | Inside Frost            | C, C-6      | 1000       | 1940 lm  | 4 3/8    | 6 1/16 |  |  |
| BR38   | Med Brass   | 15624 | ★ ☐ 1,2,4,5   | 100/OPAR/FL/A/RP    | 120                   | 6               | Amber Reflector Flood              | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 15626 | ★ ☐ 1,2,4,5   | 100/OPAR/FL/B/RP    | 120                   | 6               | Blue Reflector Flood               | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 15627 | ★ ☐ 1,2,4,5   | 100/OPAR/FL/G/RP    | 120                   | 6               | Green Reflector Flood              | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 15623 | ★ ☐ 1,2,4,5   | 100/OPAR/FL/R/RP    | 120                   | 6               | Red Reflector Flood                | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 15622 | ★ ☐ 1,2,4,5   | 100/OPAR/FL/Y/RP    | 120                   | 6               | Yellow Reflector Flood             | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
| BR40   | Med         | 14871 | ● 4,5   | 100BR/FL/RP         | 120                   | 6               | Reflector Flood                    | C, CC-6                         | 2000                                   | 935 lm<br>60°<br>900 cd |             | 6 1/2      |          |          |        |  |  |
|  |             | 14851 | ● 4,5   | 100BR/FL            | 120                   | 24              | Reflector Flood                    | C, CC-6                         | 2000                                   | 935 lm<br>60°<br>900 cd |             | 6 1/2      |          |          |        |  |  |
|  |             | 14847 | ● 4,5,11  | 100BR/FL            | 130                   | 24              | Reflector Flood                    | C, CC-6                         | 2000                                   | 935 lm<br>60°<br>900 cd |             | 6 1/2      |          |          |        |  |  |
| <i>@ 120 volts, approximate 88 watts, 710 lumens, 5000 hours</i> |             |       |   |                     |                       |                 |                                    |                                 |  |                         |             |            |          |          |        |  |  |
| K19  | Med         | 12298 | ● ☐   | 100K19/DR           | 120                   | 24              | Inside Frost Directional Reflector | C, CC-6                         | 1150                                   | 1235 lm                 |             | 4 1/8      |          |          |        |  |  |
| PAR38  | E26 Med Skt | 13934 | ★ ☐   | 100PAR/FL/A/RP      | 120                   | 6               | Silicone Coated Amber Flood        | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 13933 | ★ ☐   | 100PAR/FL/R/RP      | 120                   | 6               | Silicone Coated Red Flood          | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 13948 | ★ ☐   | 100PAR/FL/B/RP      | 120                   | 6               | Silicone Coated Blue Flood         | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 13949 | ★ ☐   | 100PAR/FL/G/RP      | 120                   | 6               | Silicone Coated Green Flood        | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 13932 | ★ ☐   | 100PAR/FL/Y/RP      | 120                   | 6               | Silicone Coated Yellow Flood       | C, CC-6                         | 2000                                   |                         |             | 5 5/16     |          |          |        |  |  |
|  |             | 13849 | ★ 2,4,18  | 100PAR38/HEAT/RED   | 120                   | 15              | Red Lens Heat Lamp                 | C, C-9                          | 5000                                   |                         |             | 5 5/16     |          |          |        |  |  |
| PAR46  | Screw Term  | 15187 | ★ ☐ 5,16  | 100PAR46            | 60                    | 12              | Mine Locomotive                    | C, CC-2V                        | 800                                    | 1290 lm                 |             | 3 3/4      |          |          |        |  |  |
| S19  | Med Brass   | 18514 |   | 100S19/CL/LANDMARK  | 120                   | 12              | Clear Landmark                     | C, C-9                          | 10000                                  | 1020 lm                 | 3 7/8       | 4 7/16     |          |          |        |  |  |
|  |             | 18509 |   | 100S19/LANDMARK     | 120                   | 12              | Inside Frost Landmark              | C, C-9                          | 10000                                  | 1000 lm                 | 3 7/8       | 4 7/16     |          |          |        |  |  |

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INCANDESCENT



A23



BR40



ER40



PAR38 Side Prong



A19



A21

## GENERAL PURPOSE LAMPS

| Watts             | Bulb  | Base           | Product Number   | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description                     | Class & Filament | Avg Rated Life (hrs) | Lumens Beam Angle CBCP        | LCL (in) | MOL (in) |
|-------------------|-------|----------------|--|---------------------|-----------------------|-------|---------|---------------------------------|------------------|----------------------|-------------------------------|----------|----------|
| 100<br>200<br>300 | PS25  | 3CONTACT Mogul | 14374  | ●▼                  | 100/300PS25/RP        | 120   | 12      | Inside Frost 3-way 100/300W     | C, CC-8          | 1200                 | 1385 lm<br>3540 lm<br>4925 lm | 4 1/4    | 6 3/4    |
| 105               | A23   | Med Brass      | 13364  | 5                   | K105A23/CL            | 125   | 24      | Clear Krypton Filled ST Ltg     | C, C-9           | 12000                | 1120 lm                       | 4 3/8    | 6 1/8    |
| 120               | BR40  | Med            | 14915  | 1,2,4,5             | 120BR/DL/FL/RP        | 120   | 6       | Double Life Reflector Flood     | C, CC-6          | 4000                 | 960 lm<br>60°<br>835 cd       |          | 6 1/2    |
|                   |       |                | 14897  | ●1,2,4,5            | 120BR/SP/RP           | 120   | 6       | Reflector Spot                  | C, CC-6          | 2000                 | 1150 lm<br>25°<br>3300 cd     |          | 6 1/2    |
|                   |       |                | 14911  | ●1,2,4,5            | 120BR/SP              | 120   | 24      | Reflector Spot                  | C, CC-6          | 2000                 | 1150 lm<br>25°<br>3300 cd     |          | 6 1/2    |
|                   |       |                | 14909  | ●1,2,4,5,11         | 120BR/SP              | 130   | 24      | Reflector Spot                  | C, CC-6          | 2000                 | 1150 lm<br>25°<br>3300 cd     |          | 6 1/2    |
|                   |       |                | <i>@ 120 volts, approximate 105 watts, 880 lumens, 5000 hours</i>  |                     |                       |       |         |                                 |                  |                      |                               |          |          |
|                   |       |                | 14888  | ●1,2,4,5,11         | 120BR/FL/CVP          | 130   | 6       | Reflector Flood                 | C, CC-6          | 2000                 | 1150 lm<br>60°<br>1000 cd     |          | 6 1/2    |
|                   |       |                | <i>@ 120 volts, approximate 105 watts, 880 lumens, 5000 hours</i>  |                     |                       |       |         |                                 |                  |                      |                               |          |          |
|                   |       |                | 14896  | ●1,2,4,5            | 120BR/FL/RP           | 120   | 6       | Reflector Flood                 | C, CC-6          | 2000                 | 1150 lm<br>60°<br>1000 cd     |          | 6 1/2    |
|                   |       |                | 14903  | ●1,2,4,5            | 120BR/FL              | 120   | 24      | Reflector Flood                 | C, CC-6          | 2000                 | 1150 lm<br>60°<br>1000 cd     |          | 6 1/2    |
|                   |       |                | 14899  | ●1,4,11             | 120BR/FL              | 130   | 24      | Reflector Flood                 | C, CC-6          | 2000                 | 1150 lm<br>60°<br>1000 cd     |          | 6 1/2    |
|                   |       |                | <i>@ 120 volts, approximate 105 watts, 880 lumens, 5000 hours</i>  |                     |                       |       |         |                                 |                  |                      |                               |          |          |
|                   |       |                | 15074*   | ●1,2,4,5            | 120BR40/FL/SL         | 130   | 24      | RHINOCOAT Safeline Flood        | C, CC-6          | 2000                 | 1150 lm<br>60°<br>1000 cd     |          | 6 1/2    |
|                   |       |                | 14898  | ●1,2,4,5            | 120BR/GRO             | 120   | 6       | Spot-GRO Reflector              | C, CC-6          | 2000                 |                               |          | 6 1/2    |
|                   | ER40  | Med            | 15166  | ●1,2,4,5            | 120ER40               | 120   | 24      | Elliptical Reflector Flood      | C, CC-6          | 2000                 | 1370 lm<br>30°<br>2350 cd     |          | 7 3/8    |
|                   |       |                | 15168  | ●1,2,4,5,11         | 120ER40               | 130   | 24      | Elliptical Reflector Flood      | C, CC-6          | 2000                 | 1370 lm<br>30°<br>2350 cd     |          | 7 3/8    |
|                   |       |                | <i>@ 120 volts, approximate 106 watts, 1040 lumens, 5000 hours</i> |                     |                       |       |         |                                 |                  |                      |                               |          |          |
|                   | PAR38 | Med Side Prong | 14572  | ★☑17                | 150/120PAR/3FL/SS     | 120   | 15      | Reflector Flood Super Saver     | C, CC-6          | 2000                 | 1900 lm<br>30°<br>4000 cd     |          | 4 5/8    |
| 125               | BR40  | Med            | 14952  | ▽4,5                | 125BR40/1/RP          | 120   | 6       | Reflector Infrared Brooder Bulb | C, CC-6          | 5000                 |                               |          | 6 1/2    |
|                   |       |                | 15006  | ▽4,5                | BROODERHEAT/1/24      | 120   | 24      | Brooder Bulb                    | C, CC-6          | 5000                 |                               |          | 6 1/2    |
| 135               | A19   | Med Brass      | 12830  |                     | 150A/135/SS/XL        | 120   | 120     | Standard Frost SuperSaver XL    | C, CC-8          | 2500                 | 2050 lm                       | 3 7/8    | 4 7/8    |
|                   |       |                | 12831  | 11                  | 150A/135/SS/XL        | 130   | 120     | Standard Frost SuperSaver XL    | C, CC-8          | 2500                 | 2050 lm                       | 3 7/8    | 4 7/8    |
|                   |       |                | <i>@ 120 volts, approximate 119 watts, 1560 lumens, 6250 hours</i> |                     |                       |       |         |                                 |                  |                      |                               |          |          |
|                   | A21   | Med            | 12820  | ●                   | 150A21/135/SS         | 120   | 48      | Standard Frost SuperSaver       | C, CC-8          | 750                  | 2450 lm                       | 3 7/8    | 5 1/2    |



A21



A23



BR38



P25



PAR38



PAR38 Side Prong



PAR46

## GENERAL PURPOSE LAMPS

| Watts  | Bulb           | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description                         | Class & Filament | Avg Rated Life (hrs) | Lumens Beam Angle CBCP           | LCL (in) | MOL (in) |
|--|----------------|------|----------------|---------------------|-----------------------|-------|---------|-------------------------------------|------------------|----------------------|----------------------------------|----------|----------|
| 135  | A21            | Med  | 12863          | ●11                 | 150A21/135/SS         | 130   | 48      | Standard Frost SuperSaver           | C, CC-8          | 750                  | 2450 lm                          | 3 7/8    | 5 1/2    |
| <i>@ 120 volts, approximate 119 watts, 1870 lumens, 1875 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
| 150  | A21            | Med  | 13125          | ●                   | 150A21/CL/RP          | 120   | 12      | Clear Utility Light                 | C, CC-8          | 750                  | 2780 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13136          | ●                   | 150A21/CL             | 120   | 48      | Clear                               | C, CC-8          | 750                  | 2780 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13148          | ●11                 | 150A21/CL             | 130   | 48      | Clear                               | C, CC-8          | 750                  | 2730 lm                          | 3 7/8    | 5 5/16   |
| <i>@ 120 volts, approximate 132 watts, 2030 lumens, 1875 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
|  |                |      | 13101          | ●                   | 150A21/M/RP           | 120   | 12      | Soft White                          | C, CC-8          | 750                  | 2640 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13165          | ●                   | 150A21/IF/RP          | 120   | 12      | Standard Frost Utility Light        | C, CC-8          | 750                  | 2740 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13141          | ●                   | 150A21                | 120   | 48      | Standard Frost                      | C, CC-8          | 750                  | 2740 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13153          | ●11                 | 150A21                | 130   | 48      | Standard Frost                      | C, CC-8          | 750                  | 2670 lm                          | 3 7/8    | 5 5/16   |
| <i>@ 120 volts, approximate 132 watts, 2030 lumens, 1875 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
|  | Med Brass      |      | 13177          |                     | 150A21/99/XL          | 120   | 48      | Standard Frost Excel                | C, CC-8          | 2500                 | 2225 lm                          | 3 7/8    | 5 5/16   |
|  |                |      | 13178          | 11                  | 150A21/99/XL          | 130   | 48      | Standard Frost Excel                | C, CC-8          | 2500                 | 2225 lm                          | 3 7/8    | 5 5/16   |
| <i>@ 120 volts, approximate 132 watts, 1690 lumens, 6250 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
| A23  | Med            |      | 15241          | ●                   | 150A23/RS             | 120   | 48      | Inside Frost Rough Service          | C, C-17          | 1000                 | 2090 lm                          | 4 3/8    | 6 1/16   |
|  |                |      | 15243          | ●11                 | 150A23/RS             | 130   | 48      | Inside Frost Rough Service          | C, C-17          | 1000                 | 2090 lm                          | 4 3/8    | 6 1/16   |
| <i>@ 120 volts, approximate 132 watts, 1590 lumens, 2500 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
|  |                |      | 13041          | ●                   | 150A23                | 120   | 48      | Inside Frost                        | C, CC-8          | 750                  | 2810 lm                          | 4 7/8    | 6 1/16   |
|  | Med Brass      |      | 15250          | 11                  | 150A23/CL/RS          | 130   | 48      | Clear Rough Service                 | C, C-17          | 1000                 | 2110 lm                          | 4 3/8    | 5 7/8    |
| <i>@ 120 volts, approximate 132 watts, 1590 lumens, 2500 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
| BR38   | Med            |      | 14869          | ●★☒1,4,17           | 150/OPAR/FL           | 120   | 48      | Outdoor Reflector Economy Flood     | C, CC-6          | 2000                 | 1350 lm<br>45°                   |          | 5 5/16   |
|  | Med Brass      |      | 15619          | ★☒1,4,17            | 150/OPAR/FL/RP        | 120   | 6       | Outdoor Reflector Economy Flood     | C, CC-6          | 2000                 | 1350 lm<br>45°                   |          | 5 5/16   |
|  |                |      | 15608          | ★☒1,4,17            | 150/OPAR/FL           | 120   | 12      | Outdoor Reflector Economy Flood     | C, CC-6          | 2000                 | 1350 lm<br>45°                   |          | 5 5/16   |
| P25  | Med Brass      |      | 15014          | 2                   | 150P25/2SB            | 120   | 60      | Silver Bowl Clear Hard Glass Button | C, C-5           | 200                  | 2040 lm                          | 3        | 4 3/4    |
| PAR38  | E26 Med Skt    |      | 13921          | ★☒17                | 150PAR/SP             | 130   | 15      | Spot                                | C, CC-6          | 750                  | 2175 lm<br>12°<br>18000 cd       |          | 5 5/16   |
| <i>@ 120 volts, approximate 132 watts, 1660 lumens, 1875 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
|  |                |      | 13922          | ★☒17                | 150PAR/FL             | 130   | 15      | Flood                               | C, CC-6          | 750                  | 2175 lm<br>30°<br>4500 cd        |          | 5 5/16   |
| <i>@ 120 volts, approximate 132 watts, 1660 lumens, 1875 hours</i> |                |      |                |                     |                       |       |         |                                     |                  |                      |                                  |          |          |
|  | Med Side Prong |      | 13848          | ★☒16                | 150PAR/3SP            | 125   | 12      | Compact Spot                        | C, CC-6          | 2000                 | 2175 lm<br>15°<br>11500 cd       |          | 4 5/16   |
|  |                |      | 13853          | ★☒16                | 150PAR/3FL            | 120   | 12      | Compact Flood                       | C, CC-6          | 2000                 | 2175 lm<br>30°<br>4000 cd        |          | 4 5/16   |
|  |                |      | 13854          | ★☒16                | 150PAR/3FL            | 125   | 12      | Compact Flood                       | C, CC-6          | 2000                 | 2175 lm<br>30°<br>4000 cd        |          | 4 5/16   |
| PAR46  | Med Side Prong |      | 15375          | ★☒5,16,19           | 150PAR46/3NSP         | 125   | 12      | Narrow Spot                         | C, CC-2V         | 2000                 | 1500 lm<br>8 x 12 VH<br>17500 cd |          | 4        |

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PAR46



PS25



PAR38



A21



A23

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## GENERAL PURPOSE LAMPS

| Watts | Bulb      | Base           | Product Number | Symbols & Footnotes | Ordering Abbreviation  | Volts | Pkg Qty | Description                             | Class & Filament | Avg Rated Life (hrs) | Lumens CBCP                       | Beam Angle | LCL (in) | MOL (in) |
|-------|-----------|----------------|----------------|---------------------|--|-------|---------|---|------------------|----------------------|-----------------------------------|------------|----------|----------|
| 150   | PAR46     | Screw Term     | 15190          | ★ 5,16              | 150PAR46   | 130   | 12      | Clear Mine Headlamp                     | C, C-13          | 1000                 | 1250 lm<br>8 x 15 VH              |            |          | 3 3/4    |
|       | PS25      | Med            | 15255          | ● 11                | 150PS25/VS   | 130   | 60      | Inside Frost Vibration Service          | C, C-9           | 1000                 | 2080 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 132 watts, 1580 lumens, 2500 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       |           |                | 15207          | ● 11                | 150PS25/CL   | 130   | 60      | Clear                                   | C, C-9           | 750                  | 2470 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 132 watts, 1880 lumens, 1875 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       |           |                | 15280          | ●                   | 150PS25  | 120   | 60      | Inside Frost                            | C, C-9           | 750                  | 2470 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                | 15276          | ●                   | 150PS25/IF   | 120   | 60      | Inside Frost                            | C, C-9           | 1000                 | 2340 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                | 15282          | ● 11                | 150PS25  | 130   | 60      | Inside Frost                            | C, C-9           | 750                  | 2330 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 132 watts, 1770 lumens, 1875 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       | Med Brass |                | 15431          | 11                  | 150PS25/99/XL  | 130   | 60      | Inside Frost Excel-Line                 | C, C-9           | 2500                 | 1870 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 132 watts, 1420 lumens, 6250 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       |           |                | 15293          | 15                  | 150PS25/SL   | 120   | 60      | Safeline Rhinocoat (Shatter Protected)  | C, C-9           | 1000                 | 2200 lm                           | 5 1/4      |          | 6 5/16   |
|       |           |                | 15300          | 15                  | 150PS25/RS/SL  | 120   | 60      | Safeline Rough Service                  | C, C-17          | 1000                 | 2145 lm                           | 4 3/8      |          | 5 5/16   |
|       | T10       | S14S           | 19690          | ▽                   | LN150  | 125   | 16      | Opal White LINESTRA 1604                | B, C-8           | 1000                 | 930 lm                            |            |          | 39 3/8   |
| 175   | PAR38     | E26 Med Skt    | 13836          | ★ 2,4,18            | 175W/PAR38/HEAT  | 120   | 15      | Hard Glass PAR Heat Lamp                | C, CC-6          | 5000                 |                                   |            |          | 5 5/16   |
|       |           |                | 13840          | ★ 2,4,18            | 175  | 120   | 15      |   |                  | 5000                 |                                   |            |          |          |
| 189   | PS25      | Med Brass      | 15562          |                     | 189PS25/64   | 120   | 60      | Clear Street Lighting Group Replacement | C, C-9           | 3000                 | 2825 lm                           | 5 1/4      |          | 6 5/16   |
| 200   | A21       | Med            | 15476          | ●                   | 200A21/CL/RP   | 120   | 12      | Clear Utility Light                     | C, CC-8          | 750                  | 3880 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                | 15491          | ● 11                | 200A21/CL  | 130   | 48      | Clear                                   | C, CC-8          | 750                  | 3880 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 176 watts, 2960 lumens, 1875 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       |           |                | 13103          | ●                   | 200A21/W/1RP   | 120   | 12      | Soft White                              | C, CC-8          | 750                  | 3650 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                | 13107          | ● 0                 | 200A21   | 120   | 24      | Soft White Recessed Ceiling             | C, CC-8          | 750                  | 3650 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                | 15499          | ●                   | 200A21/RP  | 120   | 12      | Standard Frost Utility Light            | C, CC-8          | 750                  | 3850 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                | 15543          | ● 11                | 200A21   | 130   | 48      | Standard Frost                          | C, CC-8          | 750                  | 3760 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 176 watts, 2960 lumens, 1875 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       | Med Brass |                | 15555          | 11                  | 200A21/99/XL   | 125   | 48      | Standard Frost Excel                    | C, CC-8          | 2500                 | 2910 lm                           | 3 7/8      |          | 5 5/16   |
|       |           |                |                |                     | <i>@ 120 volts, approximate 188 watts, 2220 lumens, 6250 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       | A23       | Med            | 15457          | ●                   | 200A23/RS  | 120   | 48      | Inside Frost Rough Service              | C, C-17          | 1000                 | 3030 lm                           | 4 3/8      |          | 5 7/8    |
|       |           |                | 15458          | ● 11                | 200A23/RS  | 130   | 48      | Inside Frost Rough Service              | C, C-17          | 1000                 | 2920 lm                           | 4 3/8      |          | 5 7/8    |
|       |           |                |                |                     | <i>@ 120 volts, approximate 176 watts, 2220 lumens, 2500 hours</i> |       |         |   |                  |                      |                                   |            |          |          |
|       |           |                | 15505          | ● 0                 | 200A23   | 120   | 48      | Inside Frost                            | C, CC-8          | 750                  | 3930 lm                           | 4 3/8      |          | 6 1/16   |
|       | PAR46     | Med Side Prong | 15194          | ★ 5,16,19           | 200PAR46/3MFL  | 120   | 12      | Medium Flood                            | C, CC-13         | 2000                 | 2270 lm<br>15 x 25 VH<br>11500 cd |            |          | 4        |
|       |           |                | 15196          | ★ 5,16,19           | 200PAR46/3MFL  | 125   | 12      | Medium Flood                            | C, CC-13         | 2000                 | 2270 lm<br>15 x 25 VH<br>11500 cd |            |          | 4        |
|       |           |                | 15191          | ★ 5,16,19           | 200PAR46/3NSP  | 120   | 12      | Narrow Spot                             | C, CC-13         | 2000                 | 2270 lm<br>8 x 12 VH<br>31000 cd  |            |          | 4        |
|       |           |                | 15193          | ★ 5,16,19           | 200PAR46/3NSP  | 125   | 12      | Narrow Spot                             | C, CC-13         | 2000                 | 2270 lm<br>8 x 12 VH<br>31000 cd  |            |          | 4        |





PAR56



PS25



PS30



BR38



BR40



R40

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## GENERAL PURPOSE LAMPS

| Watts     | Bulb  | Base   | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty                                    | Description                             | Class & Filament | Avg Rated Life(hrs) | Lumens Beam Angle CBCP            | LCL (in) | MOL (in) |  |
|-----------|---|--|----------------|---------------------|-----------------------|-------|--|---|------------------|---------------------|-----------------------------------|----------|----------|--|
| 200       | PAR56   | Mog End Prong  | 15007          | ★5,16,19            | 200PAR56/MFL          | 120   | 12   | Medium Flood Clear                      | C, CC-13         | 2000                | 2270 lm<br>15 x 20 VH<br>15000 cd |          | 5        |  |
|           |   | Screw Term   | 14968          | ★                   | 200PAR56              | 30    | 12   | Locomotive Headlamp                     | C, CC-8          | 500                 | 3700 lm<br>9 x 9 VH<br>27000 cd   |          | 4 1/2    |  |
| PS25      | Med   |  | 15600          | ●11                 | 200PS25               | 130   | 60   | Inside Frost                            | C, CC-6          | 750                 | 3700 lm                           | 5 1/4    | 6 5/16   |  |
|           |   | <i>@ 120 volts, approximate 176 watts, 2820 lumens, 1875 hours</i> |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           | Med Brass   | 15816  |                | 200PS25/99/XL       | 120                   | 60    | Inside Frost Excel-Line                    | C, CC-6                                 | 2500             | 3000 lm             | 5 1/4                             | 6 5/16   |          |  |
| PS30      | Med   |  | 15818          | 11                  | 200PS25/99/XL         | 130   | 60   | Inside Frost Excel-Line                 | C, CC-6          | 2500                | 3000 lm                           | 5 1/4    | 6 5/16   |  |
|           |   | <i>@ 120 volts, approximate 176 watts, 2360 lumens, 6250 hours</i> |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           |   |  | 15865          | ●                   | 200PS30/CL/RS         | 250   | 60   | Clear Rough Service                     | C, C-9           | 1000                | 2630 lm                           | 6        | 8 1/16   |  |
|           |   |  | 15647          | ●                   | 200PS/CL              | 130   | 60   | Clear                                   | C, C-9           | 750                 | 3600 lm                           | 6        | 8 1/16   |  |
|           |   | <i>@ 120 volts, approximate 176 watts, 2740 lumens, 1875 hours</i> |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           |   |  | 15797          | ●                   | 200PS/CL              | 250   | 60   | Clear                                   | C, C-9           | 1000                | 2920 lm                           | 6        | 8 1/16   |  |
|           |   |  | 15820          | ●                   | 200/CL                | 277   | 60   | Clear                                   | C, C-9           | 1000                | 2360 lm                           | 6        | 8 1/16   |  |
|           |   |  | 15653          | ●11                 | 200PS/IF              | 130   | 60   | Inside Frost                            | C, C-9           | 750                 | 3560 lm                           | 6        | 8 1/16   |  |
|           |   | <i>@ 120 volts, approximate 176 watts, 2710 lumens, 1875 hours</i> |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           |   |  | 15673          | ●                   | 200PS/23              | 120   | 60   | Inside Frost Rough Service              | C, C-9           | 1000                | 3080 lm                           | 6        | 8 1/16   |  |
| Med Brass |   | 15675  | ●11            | 200PS/23            | 130                   | 60    | Inside Frost Rough Service                 | C, C-9                                  | 1000             | 3080 lm             | 6                                 | 8 1/16   |          |  |
|           | <i>@ 120 volts, approximate 176 watts, 2350 lumens, 2500 hours</i>  |  |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           |   | 15725  | 11             | 200PS/CL/99/XL      | 130                   | 60    | Clear Excel-Line                           | C, C-9                                  | 2500             | 2875 lm             | 6                                 | 8 1/16   |          |  |
|           | <i>@ 120 volts, approximate 176 watts, 2190 lumens, 6250 hours</i>  |  |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           |   | 15691  | 11             | 200PS/IF/99/XL      | 130                   | 60    | Inside Frost Excel-Line                    | C, C-9                                  | 2500             | 2875 lm             | 6                                 | 8 1/16   |          |  |
|           | <i>@ 120 volts, approximate 176 watts, 2190 lumens, 6250 hours</i>  |  |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
| 202       | PS25  | Med Brass  | 15581          | 5                   | 202PS25/CL            | 125   | 60   | Clear Street Lighting Group Replacement | C, C-9           | 6000                | 2750 lm                           | 5 1/4    | 6 5/16   |  |
| 205       | PS25  | Med Brass  | 15547          | 5                   | 205K/PS25/CL          | 125   | 60   | Clear Street Light Krypton              | C, C-9           | 12000               | 2650 lm                           | 5 1/4    | 6 5/16   |  |
| 250       | BR38  | Med Brass  | 14661          | ★2,11               | 250K/BR38/FL          | 125   | 12   | Reflector Flood Krypton                 | C, CC-6          | 4000                | 3100 lm                           |          | 5 3/16   |  |
|           | <i>@ 120 volts, approximate 220 watts, 2360 lumens, 10000 hours</i> |  |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           | BR40  | Med  | 14664          | ●▽2,4,5,18          | 250BR40/1             | 120   | 6  | Reflector IR Heat Lamp Clear            | C, CC-6          | 5000                |                                   |          | 6 1/2    |  |
|           |   |  | 14665          | ●▽2,4,5,18          | 250BR40               | 120   | 12   | Reflector IR Heat Lamp Clear            | C, CC-6          | 5000                |                                   |          | 6 1/2    |  |
| R40       | Med   | 14663  | ★▽2,4,5,18     | 250R40/10           | 120                   | 6     | Red Bowl IR Heat Lamp Reflector Hard Glass | C, C-6                                  | 5000             |                     |                                   | 6 7/8    |          |  |
| 300       | BR40  | Med Brass  | 14779          | 1,2,4,5             | 300BR/FL              | 120   | 24   | Reflector Flood                         | C, CC-2V         | 2000                | 3030 lm<br>60°<br>2900 cd         |          | 6 1/2    |  |
|           |   |  | 14781          | 1,2,4,5,11          | 300BR/FL              | 130   | 24   | Reflector Flood                         | C, CC-2V         | 2000                | 3030 lm<br>60°<br>2900 cd         |          | 6 1/2    |  |
|           | <i>@ 120 volts, approximate 264 watts, 2240 lumens, 5000 hours</i>  |  |                |                     |                       |       |  |   |                  |                     |                                   |          |          |  |
|           | PAR56   | Mog End Prong  | 14950          | ★16,19              | 300PAR56/MFL          | 120   | 12   | Medium Flood                            | C, CC-13         | 2000                | 3840 lm<br>11 x 25 VH<br>24000 cd |          | 5        |  |
|           |   |  | 14946          | ★16,19              | 300PAR56/MFL          | 130   | 12   | Medium Flood                            | C, CC-13         | 2000                | 3840 lm<br>11 x 25 VH<br>24000 cd |          | 5        |  |



PAR56



PS30



PS35



R40



BR40

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## GENERAL PURPOSE LAMPS

| Watts | Bulb  | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation  | Volts | Pkg Qty  | Description                             | Class & Filament | Avg Rated Life(hrs)       | Lumens Beam Angle CBCP            | LCL (in) | MOL (in) |
|-------|-------|------------|----------------|---------------------|--|-------|--|---|------------------|---------------------------|-----------------------------------|----------|----------|
| 300   | PAR56 | MogEnd     | 14953          | ★ 16,19             | 300PAR56/WFL   | 120   | 12   | Wide Flood                              | C, CC-13         | 2000                      | 3840 lm<br>20 x 35 VH<br>11000 cd |          | 5        |
|       |       |            | 14945          | ★ 16,19             | 300PAR56/WFL   | 130   | 12   | Wide Flood                              | C, CC-13         | 2000                      | 3840 lm<br>20 x 35 VH<br>11000 cd |          | 5        |
|       |       |            | 14947          | ★ 16,19             | 300PAR56/NSP   | 120   | 12   | Narrow Spot                             | C, CC-13         | 2000                      | 3840 lm<br>8 x 10 VH<br>68000 cd  |          | 5        |
|       |       |            | 14944          | ★ 16,19             | 300PAR56/NSP   | 130   | 12   | Narrow Spot                             | C, CC-13         | 2000                      | 3840 lm<br>8 x 10 VH<br>68000 cd  |          | 5        |
|       |       | Screw Term | 14967          | ★                   | 25A/PAR56/WFL  | 12    | 12   | Swimming Pool                           | C, C-6           | 1000                      | 6000 lm<br>15 x 40 VH             |          | 4 1/2    |
| PS30  | Med   |            | 15740          | ●                   | 300M/CL/RP   | 120   | 12   | Clear Utility Light                     | C, C-9           | 750                       | 5870 lm                           | 6        | 8 1/16   |
|       |       |            | 15742          | ●                   | 300M/CL  | 120   | 60   | Clear Utility Light                     | C, C-9           | 750                       | 5870 lm                           | 6        | 8 1/16   |
|       |       |            | 15744          | ●11                 | 300M/CL<br>@ 120 volts, approximate 264 watts, 4390 lumens, 1875 hours       | 130   | 60   | Clear Utility Light                     | C, C-9           | 750                       | 5820 lm                           | 6        | 8 1/16   |
|       |       |            | 15735          | ●                   | 300M/IF/RP   | 120   | 12   | Inside Frost Utility Light              | C, C-9           | 750                       | 5860 lm                           | 6        | 8 1/16   |
|       |       |            | 15737          | ●                   | 300M/IF  | 120   | 60   | Inside Frost Utility Light              | C, C-9           | 750                       | 5860 lm                           | 6        | 8 1/16   |
|       |       |            | 15738          | ●                   | 300M/IF/CVP/6<br>@ 120 volts, approximate 264 watts, 4390 lumens, 1875 hours | 130   | 6  | Inside Frost Utility Light              | C, C-9           | 750                       | 5760 lm                           | 6        | 8 1/16   |
|       |       |            | 15739          | ●11                 | 300M/IF<br>@ 120 volts, approximate 264 watts, 4390 lumens, 1875 hours       | 130   | 60   | Inside Frost Utility Light              | C, C-9           | 750                       | 5760 lm                           | 6        | 8 1/16   |
|       |       |            |                | Med Brass           | 15758  | 11    | 300M/CL/99/XL<br>@ 120 volts, approximate 264 watts, 3850 lumens, 6250 hours | 130                                     | 60               | Clear Excel-Line          | C, C-9                            | 2500     | 5050 lm  |
|       |       |            | 15761          | 11                  | 300M/IF/99/XL<br>@ 120 volts, approximate 264 watts, 3800 lumens, 6250 hours | 130   | 60   | Inside Frost Excel-Line                 | C, C-9           | 2500                      | 4990 lm                           | 6        | 8 1/16   |
| PS35  | Mogul |            | 15904          |                     | 300PS35/CL/99/XL   | 120   | 24   | Clear Excel-Line                        | C, C-9           | 2500                      | 5190 lm                           | 7        | 9 3/8    |
|       |       |            | 15925          |                     | 300PS35/99IF/XL  | 120   | 24   | Inside Frost Excel-Line                 | C, C-9           | 2500                      | 5190 lm                           | 7        | 9 3/8    |
|       |       |            | 15930          |                     | 300PS35/99IF/XL  | 130   | 24   | Inside Frost Excel-Line                 | C, C-9           | 2500                      | 5070 lm                           | 7        | 9 3/8    |
|       |       |            | 15876          |                     | 300PS35/RS   | 130   | 24   | Clear Rough Service                     | C, C-9           | 1000                      | 5100 lm                           | 7        | 9 3/8    |
|       |       |            | 15915          |                     | 300PS35/CL   | 120   | 24   | Clear Utility Light                     | C, C-9           | 1000                      | 5700 lm                           | 7        | 9 3/8    |
|       |       |            | 15917          |                     | 300PS35/CL   | 130   | 24   | Clear Utility Light                     | C, C-9           | 1000                      | 5250 lm                           | 7        | 9 3/8    |
|       |       |            | 16068          |                     | 300PS35/CL   | 277   | 24   | Clear                                   | C, C-7A          | 1000                      | 4220 lm                           | 7        | 9 3/8    |
|       |       |            | 15918          |                     | 300PS35/IF   | 120   | 24   | Inside Frost Utility Light              | C, C-9           | 1000                      | 5700 lm                           | 7        | 9 3/8    |
|       |       |            | 15920          |                     | 300PS35/IF   | 130   | 24   | Inside Frost Utility Light              | C, C-9           | 1000                      | 5250 lm                           | 7        | 9 3/8    |
| R40   | Mogul | 14796      | ★ 2,4,20       | 300R/3FL            | 120  | 24    | Reflector Flood  | C, CC-2V                                | 2000             | 3660 lm<br>60°<br>2375 cd |                                   | 7 1/4    |          |
| 327   | PS35  | Mogul      | 16182          |                     | 327PS35  | 125   | 24   | Clear Street Lighting Group Replacement | C, C-9           | 6000                      | 4850 lm                           | 7        | 9 3/8    |
| 375   | BR40  | Med Skt    | 14746          | RG3▽2,4,5,18        | 375BR40  | 120   | 24   | IR Reflector Industrial                 | C, C-11          | 5000                      |                                   |          | 7 1/4    |
|       | R40   | Med Skt    | 14747          | ★ RG3▽2,18          | 375R40/1   | 120   | 24   | Reflector IR Heat Lamp Clear            | C, C-11          | 5000                      |                                   |          | 7 3/8    |



PAR64



PS35



R40



CA



B10



F10



G16.5

## GENERAL PURPOSE LAMPS

| Watts | Bulb  | Base              | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description     | Class & Filament | Avg Rated Life(hrs) | Lumens<br>Beam Angle<br>CBCP      | LCL<br>(in) | MOL<br>(in)                   |
|-------|-------|-------------------|----------------|---------------------|-----------------------|-------|---------|-----------------|------------------|---------------------|-----------------------------------|-------------|-------------------------------|
| 500   | PAR64 | Ext Mog<br>End Pr | 14932          | ★5,16,19            | 500PAR64/MFL          | 120   | 6       | Medium Flood    | C, CC-13         | 2000                | 6500 lm<br>11 x 25 VH<br>37000 cd |             | 6                             |
|       |       |                   | 14934          | ★5,16,19            | 500PAR64/MFL          | 130   | 6       | Medium Flood    | C, CC-13         | 2000                | 6500 lm<br>11 x 25 VH<br>37000 cd |             | 6                             |
|       |       |                   | 14935          | ★5,16,19            | 500PAR64/WFL          | 120   | 6       | Wide Flood      | C, CC-13         | 2000                | 6500 lm<br>20 x 40 VH<br>13000 cd |             | 6                             |
|       |       |                   | 14937          | ★5,16,19            | 500PAR64/WFL          | 130   | 6       | Wide Flood      | C, CC-13         | 2000                | 6500 lm<br>20 x 40 VH<br>13000 cd |             | 6                             |
|       |       |                   | 14938          | ★5,16,19            | 500PAR64/NSP          | 120   | 6       | Narrow Spot     | C, CC-13         | 2000                | 6500 lm<br>7 x 12 VH<br>110000 cd |             | 6                             |
| PS35  | Mogul |                   | 16032          |                     | 500PS35/CL            | 120   | 24      | Clear           | C, CC-8          | 1000                | 10000 lm                          | 7           | 9 <sup>3</sup> / <sub>8</sub> |
|       |       |                   | 16034          |                     | 500PS35/CL            | 130   | 24      | Clear           | C, CC-8          | 1000                | 10000 lm                          | 7           | 9 <sup>3</sup> / <sub>8</sub> |
|       |       |                   | 16038          |                     | 500PS35/IF            | 120   | 24      | Inside Frost    | C, CC-8          | 1000                | 10000 lm                          | 7           | 9 <sup>3</sup> / <sub>8</sub> |
|       |       |                   | 16040          |                     | 500PS35/IF            | 130   | 24      | Inside Frost    | C, CC-8          | 1000                | 10000 lm                          | 7           | 9 <sup>3</sup> / <sub>8</sub> |
| R40   | Mogul |                   | 14835          | ★3,5                | 500R/3FL              | 120   | 24      | Reflector Flood | C, CC-2V         | 2000                | 6925 lm<br>60°<br>4355 cd         |             | 7 <sup>1</sup> / <sub>4</sub> |
|       |       |                   | 14857          | ★3,5                | 500R/3FL              | 250   | 24      | Reflector Flood | C, CC-11         | 2000                | 5100 lm<br>60°<br>3000 cd         |             | 7 <sup>1</sup> / <sub>4</sub> |

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## DECORATIVE LAMPS

| Watts | Bulb       | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts          | Pkg Qty | Description                      | Class & Filament      | Avg Rated Life(hrs) | MOL<br>(in)                    |                                 |
|-------|------------|------------|----------------|---------------------|-----------------------|----------------|---------|----------------------------------|-----------------------|---------------------|--------------------------------|---------------------------------|
| 2     | CA8        | Candelabra | 13497          | ●                   | 2CA8C/CL/FL/BL        | 120            | 6       | Clear Flicker                    | B                     | 3000                | 3 <sup>1</sup> / <sub>2</sub>  |                                 |
|       | CA10       | Med        | 13496          | ●                   | 2CA10/CL/FL/BL        | 120            | 6       | Clear Flicker                    | B                     | 3000                | 3 <sup>1</sup> / <sub>2</sub>  |                                 |
| 15    | B10        | Candelabra | 13315          | ●                   | 15B10C/DL/BL          | 120            | 12      | Clear Double Life Décor Bent Tip | C, C-7A               | 3000                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |
|       |            |            | 13448          | ●                   | 15B10C/BL/2PK         | 120            | 12      | Clear Décor Bent Tip             | C, C-7A               | 1500                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |
|       |            |            | 13782          | ●                   | 15B10C/BL/4PK         | 120            | 24      | Clear Décor Bent Tip             | C, C-7A               | 1500                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |
|       |            |            | 13657          | ●                   | 15B10CBAGPK           | 120            | 200     | Clear Décor Bent Tip             | C, C-7A               | 1500                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |
|       |            |            | 13675          | ●                   | 15B10C/T/BL/2PK       | 120            | 12      | Clear Décor Blunt Tip            | C, C-7A               | 1500                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |
|       | Med        |            |                | 13433               | ●                     | 15B10/BL/2PK   | 120     | 12                               | Clear Décor Bent Tip  | C, C-7A             | 1500                           | 3 <sup>13</sup> / <sub>16</sub> |
|       |            |            |                | 13715               | ●                     | 15B10/T/BL/2PK | 120     | 12                               | Clear Décor Blunt Tip | C, C-7A             | 1500                           | 3 <sup>3</sup> / <sub>16</sub>  |
| F10   | Candelabra |            | 13435          | ●                   | 15FC/AIC/BL/2PK       | 120            | 12      | Amber Flame Shape Iridescent     | B, C-7A               | 1500                | 3 <sup>3</sup> / <sub>16</sub> |                                 |
|       |            |            | 13434          | ●                   | 15FC/IC/BL/2PK        | 120            | 12      | Clear Iridescent Flame Shape     | B, C-7A               | 1500                | 3 <sup>3</sup> / <sub>16</sub> |                                 |
|       |            |            | 13436          | ●                   | 15FC/W/BL/2PK         | 120            | 12      | White Flame Shape                | B, C-7A               | 1500                | 3 <sup>3</sup> / <sub>16</sub> |                                 |
| G16.5 | Candelabra |            | 13709          | ●                   | 15G16.5C/4M           | 120            | 24      | Clear Globe                      | B, C-7A               | 4000                | 3                              |                                 |
|       |            |            | 13616          | ●                   | 15G16.5C              | 120            | 24      | Clear Globe                      | B, C-7A               | 1500                | 3                              |                                 |
|       |            |            | 13617          | ●                   | 15G16.5CAW            | 120            | 24      | White Globe                      | B, C-7A               | 1500                | 3                              |                                 |
| 25    | B10        | Candelabra | 13306          | ●                   | 25B10C/DL/BL/4PK      | 120            | 24      | Clear Double Life Decor Bent Tip | C, C-7A               | 3000                | 3 <sup>3</sup> / <sub>8</sub>  |                                 |



B10



F15



G16.5



G25

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### DECORATIVE LAMPS

| Watts | Bulb  | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation    | Volts           | Pkg Qty                      | Description                        | Class & Filament                 | Avg Rated Life(hrs) | MOL (in) |         |
|-------|-------|------------|----------------|---------------------|--------------------------|-----------------|------------------------------|------------------------------------|----------------------------------|---------------------|----------|---------|
| 25    | B10   | Candelabra | 13316          | ● ▼ ▲               | 25B10C/DL/BL             | 120             | 12                           | Clear Double Life Décor Bent Tip   | C, C-7A                          | 3000                | 3 7/8    |         |
|       |       |            | 13743          | ● ▼ ▲               | 25B10C/CRYSTAL/DL/BL/2PK | 120             | 12                           | Double Life Crystal Bent Tip       | C, C-7A                          | 3000                | 3 7/8    |         |
|       |       |            | 13317          | ● ▼ ▲               | 25B10C/DLF/BL            | 120             | 12                           | Frosted Double Life Décor Bent Tip | C, C-7A                          | 3000                | 3 7/8    |         |
|       |       |            | 13308*         | ● ▼ ▲               | 25B10C/DLF/BL/4PK        | 120             | 24                           | Frosted Double Life Décor Bent Tip | C, C-7A                          | 3000                | 3 7/8    |         |
|       |       |            | 13452          | ● ▼ ▲               | 25B10C/BL/2PK            | 120             | 12                           | Clear Décor Bent Tip               | C, C-7A                          | 1500                | 3 7/8    |         |
|       |       |            | 13570          | ● ▼ ▲               | 25B10C/BAGPK             | 120             | 200                          | Clear Décor Bent Tip               | C, C-7A                          | 1500                | 3 7/8    |         |
|       |       |            | 13678          | ● ▼ ▲               | 25B10C/T/BL/2PK          | 120             | 12                           | Clear Décor Blunt Tip              | C, C-7A                          | 1500                | 3 5/8    |         |
|       |       |            | 13453          | ● ▼ ▲               | 25B10C/F/BL/2PK          | 120             | 12                           | Frosted Décor Bent Tip             | C, C-7A                          | 1500                | 3 7/8    |         |
|       |       |            | Med            | 13318               | ● ▼ ▲ 6                  | 25B10/DL/BL     | 120                          | 12                                 | Clear Double Life Décor Bent Tip | C, C-7A             | 3000     | 3 13/16 |
|       |       |            |                | 13331*              | ● ▼ ▲ 6                  | 25B10/DL/BL/4PK | 120                          | 24                                 | Clear Double Life Décor Bent Tip | C, C-7A             | 3000     | 3 13/16 |
|       |       |            |                | 13438               | ● ▼ ▲ 6                  | 25B10/BL/2PK    | 120                          | 12                                 | Clear Décor Bent Tip             | C, C-7A             | 1500     | 3 13/16 |
|       |       |            |                | 13654               | ● ▼ ▲ 6                  | 25B10/BL/4PK    | 120                          | 24                                 | Clear Décor Bent Tip             | C, C-7A             | 1500     | 3 13/16 |
|       |       |            |                | 13717               | ● ▼ ▲ 6                  | 25B10/T/BL/2PK  | 120                          | 12                                 | Clear Décor Blunt Tip            | C, C-7A             | 1500     | 3 9/16  |
|       |       |            |                | 13439               | ● ▼ ▲ 6                  | 25B10/F/BL/2PK  | 120                          | 12                                 | Soft White Décor Bent Tip        | C, C-7A             | 1500     | 3 13/16 |
| F15   | Med   | 13823      |                | ●                   | 25F/AIC/BL/2PK           | 120             | 12                           | Amber Flame Shape Iridescent       | C, C-7A                          | 1500                | 4 1/2    |         |
|       |       | 13806      | ●              | 25F/CL              | 120                      | 24              | Clear Flame Shape            | C, C-7A                            | 1500                             | 4 1/2               |          |         |
|       |       | 13821      | ●              | 25F/C/BL/2PK        | 120                      | 12              | Iridescent Flame Shape       | C, C-7A                            | 1500                             | 4 1/2               |          |         |
|       |       | 13820      | ●              | 25F/W/BL/2PK        | 120                      | 12              | Soft White Flame Shape       | C, C-7A                            | 1500                             | 4 1/2               |          |         |
|       |       | G16.5      | Candelabra     | 13704               | ●                        | 25G16.5C/4M     | 120                          | 24                                 | Clear Globe                      | B, C-7A             | 4000     | 3       |
| 13703 | ●     |            |                | 25G16.5C/W/4M       | 120                      | 24              | Soft White Globe             | B, C-7A                            | 4000                             | 3                   |          |         |
| 13625 | ●     |            |                | 25G16.5C/BL         | 120                      | 12              | Clear Globe                  | B, C-7A                            | 1500                             | 3                   |          |         |
| 13618 | ●     |            |                | 25G16.5C            | 120                      | 24              | Clear Globe                  | B, C-7A                            | 1500                             | 3                   |          |         |
| 13622 | ●     |            |                | 25G16.5C/W/BL       | 120                      | 12              | White Globe                  | B, C-7A                            | 1500                             | 3                   |          |         |
| Med   | 10298 | ●          | 25G16.5/BL     | 120                 | 12                       | Clear Globe     | C, C-7A                      | 1500                               | 3                                |                     |          |         |
|       | 10297 | ●          | 25G16.5/W/BL   | 120                 | 12                       | White Globe     | C, C-7A                      | 1500                               | 3                                |                     |          |         |
| G25   | Med   | 14145      | ● ▲            | 25G25/DL/RP         | 120                      | 6               | Clear Double Life Globe      | C, C-9                             | 3000                             | 4 7/16              |          |         |
|       |       | 14276      | ● ▲            | 25G25/4M            | 120                      | 24              | Clear Globe                  | C, C-9                             | 4000                             | 4 7/16              |          |         |
|       |       | 14146      | ● ▲            | 25G25/DLSW/RP       | 120                      | 6               | Soft White Double Life Globe | C, C-9                             | 3000                             | 4 7/16              |          |         |
|       |       | 14103      | ● ▲            | 25G25/DLSW/RP/48    | 120                      | 48              | Soft White Double Life Globe | C, C-9                             | 3000                             | 4 7/16              |          |         |
|       |       | 14277      | ● ▲            | 25G25/W/4M          | 120                      | 24              | Soft White Globe             | C, C-9                             | 4000                             | 4 7/16              |          |         |
|       |       | 14105      | ● ▲            | 25G25/DL/RP/48      | 120                      | 48              | Clear Double Life Globe      | C, C-9                             | 3000                             | 4 7/16              |          |         |
|       |       | 14282      | ● ▲            | 25G25/RP            | 120                      | 6               | Clear Globe                  | C, C-9                             | 1500                             | 4 7/16              |          |         |
|       |       | 14264      | ● ▲            | 25G25               | 120                      | 24              | Clear Globe                  | C, C-9                             | 1500                             | 4 7/16              |          |         |
|       |       | 14210      | ● ▲            | 25G25/3PK/RP        | 120                      | 24              | Clear Globe                  | C, C-9                             | 1500                             | 4 7/16              |          |         |
|       |       | 14286      | ● ▲            | 25G25/W/RP          | 120                      | 6               | Soft White Globe             | C, C-9                             | 1500                             | 4 7/16              |          |         |
|       |       | 14265      | ● ▲            | 25G25/W             | 120                      | 24              | Soft White Globe             | C, C-9                             | 1500                             | 4 7/16              |          |         |



## DECORATIVE LAMPS

| Watts | Bulb       | Base             | Product Number | Symbols & Footnotes | Ordering Abbreviation     | Volts  | Pkg Qty          | Description                                | Class & Filament | Avg Rated Life(hrs) | MOL (in)                           |         |      |         |
|-------|------------|------------------|----------------|---------------------|---------------------------|--------|------------------|--|------------------|---------------------|------------------------------------|---------|------|---------|
| 25    | G25        | Med              | 14211          | ●                   | 25G25/W/3PK/RP            | 120    | 24               | Soft White Globe                           | C, C-9           | 1500                | 4 1/16                             |         |      |         |
|       | G30        | Med              | 14404          | ●                   | 25G30/W/RP                | 120    | 6                | Soft White Globe                           | C, C-9           | 2500                | 5 1/2                              |         |      |         |
|       | G40        | Med              | 14685          | ●                   | 25G40                     | 120    | 6                | Clear Globe                                | C, C-9           | 2500                | 6 15/16                            |         |      |         |
| 14901 |            |                  | ●              | 25G40/W             | 120                       | 6      | Soft White Globe | C, C-9                                     | 2500             | 6 15/16             |                                    |         |      |         |
| 32    | B10        | Candelabra       | 13737          | ● ▼ ▲               | 32B10C/CRYSTAL/DL/BL/2PK  | 120    | 12               | Double Life Crystal Bent Tip               | C, C-7A          | 4000                | 3 7/8                              |         |      |         |
| 40    | B10        | Candelabra       | 13319          | ● ▼ ▲               | 40B10C/DL/BL/2PK          | 120    | 12               | Clear Double Life Décor Bent Tip           | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13328          | ● ▼ ▲               | 40B10C/DL/BL/4PK          | 120    | 24               | Clear Double Life Décor Bent Tip Four Pack | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13741          | ● ▼ ▲               | 40B10C/CRYSTAL/DL/BL/2PK  | 120    | 12               | Double Life Crystal Bent Tip               | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13714*         | ● ▼ ▲               | 40B10C/CRYSTAL/DL/BL/4/24 | 120    | 24               | Double Life Crystal Bent Tip               | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13320          | ● ▼ ▲               | 40B10C/DLF/BL/2PK         | 120    | 12               | Frosted Double Life Décor Bent Tip         | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13309*         | ● ▼ ▲               | 40B10C/DLF/BL/4PK         | 120    | 24               | Frosted Double Life Décor Bent Tip         | C, C-7A          | 3000                | 3 7/8                              |         |      |         |
|       |            |                  | 13456          | ● ▼ ▲               | 40B10C/BL/2PK             | 120    | 12               | Clear Décor Bent Tip                       | C, C-7A          | 1500                | 3 7/8                              |         |      |         |
|       |            |                  | 13648          | ● ▼ ▲               | 40B10C/BL/4PK             | 120    | 24               | Clear Décor Bent Tip                       | C, C-7A          | 1500                | 3 7/8                              |         |      |         |
|       |            |                  | 13571          | ● ▼ ▲               | 40B10C/BAGPK              | 120    | 200              | Clear Décor Bent Tip                       | C, C-7A          | 1500                | 3 7/8                              |         |      |         |
|       |            |                  | 13681          | ● ▼ ▲               | 40B10C/T/BL/2PK           | 120    | 12               | Clear Décor Blunt Tip                      | C, C-7A          | 1500                | 3 5/8                              |         |      |         |
|       |            |                  | 13457          | ● ▼ ▲               | 40B10C/F/BL/2PK           | 120    | 12               | Frosted Décor Bent Tip                     | C, C-7A          | 1500                | 3 7/8                              |         |      |         |
|       |            |                  | 13682          | ● ▼ ▲               | 40B10C/F/T/BL/2PK         | 120    | 12               | Frosted Décor Blunt Tip                    | C, C-7A          | 1500                | 3 5/8                              |         |      |         |
|       |            |                  | Med            |                     |                           | 13321  | ● ▼ ▲ 6          | 40B10/DL/BL/2PK                            | 120              | 12                  | Clear Double Life Décor Bent Tip   | C, C-7A | 3000 | 3 13/16 |
|       |            |                  |                |                     |                           | 13740  | ● ▼ ▲ 6          | 40B10/CRYSTAL/DL/BL/2PK                    | 120              | 12                  | Double Life Crystal Bent Tip       | C, C-7A | 3000 | 3 13/16 |
|       |            |                  |                |                     |                           | 13723* | ● ▼ ▲ 6          | 40B10/CRYSTAL/DL/BL/4PK                    | 120              | 24                  | Double Life Crystal Bent Tip       | C, C-7A | 3000 | 3 13/16 |
|       |            |                  |                |                     |                           | 13322  | ● ▼ ▲ 6          | 40B10/DLF/BL/2PK                           | 120              | 12                  | Frosted Double Life Décor Bent Tip | C, C-7A | 3000 | 3 13/16 |
|       |            |                  |                |                     |                           | 13440  | ● ▼ ▲ 6          | 40B10/BL/2PK                               | 120              | 12                  | Clear Décor Bent Tip               | C, C-7A | 1500 | 3 13/16 |
| 13651 | ● ▼ ▲ 6    | 40B10/BL/4PK     |                |                     |                           | 120    | 24               | Clear Décor Bent Tip                       | C, C-7A          | 1500                | 3 13/16                            |         |      |         |
| 13719 | ● ▼ ▲ 6    | 40B10/T/BL/2PK   |                |                     |                           | 120    | 12               | Clear Décor Blunt Tip                      | C, C-7A          | 1500                | 3 7/16                             |         |      |         |
| 13720 | ● ▼ ▲ 6    | 40B10/F/T/BL/2PK |                |                     |                           | 120    | 12               | Frosted Décor Blunt Tip                    | C, C-7A          | 1500                | 3 7/16                             |         |      |         |
| 13441 | ● ▼ ▲ 6    | 40B10/F/BL/2PK   |                |                     |                           | 120    | 12               | Soft White Décor Bent Tip                  | C, C-7A          | 1500                | 3 13/16                            |         |      |         |
| F15   | Med        |                  |                |                     |                           | 13986  | ●                | 40F/AIC/BL/2PK                             | 120              | 12                  | Amber Flame Shape Iridescent       | C, C-7A | 1500 | 4 1/2   |
|       |            |                  | 13974          | ●                   | 40F/CL                    | 120    | 24               | Clear Flame Shape                          | C, C-7A          | 1500                | 4 1/2                              |         |      |         |
|       |            |                  | 13985          | ●                   | 40F/IC/BL/2PK             | 120    | 12               | Iridescent Flame Shape                     | C, C-7A          | 1500                | 4 1/2                              |         |      |         |
|       |            |                  | 13984          | ●                   | 40F/W/BL/2PK              | 120    | 12               | White Flame Shape                          | C, C-7A          | 1500                | 4 1/2                              |         |      |         |
| G16.5 | Candelabra |                  | 13700          | ● ▼                 | 40G16.5C/4M               | 120    | 24               | Clear Globe                                | C, C-7A          | 4000                | 3                                  |         |      |         |
|       |            |                  | 13699          | ● ▼                 | 40G16.5C/W/4M             | 120    | 24               | Soft White Globe                           | C, C-7A          | 4000                | 3                                  |         |      |         |
|       |            |                  | 13666          | ● ▼                 | 40G16.5C/BL               | 120    | 12               | Clear Globe                                | C, C-7A          | 1500                | 3                                  |         |      |         |
|       |            |                  | 13702          | ● ▼                 | 40G16.5C                  | 120    | 24               | Clear Globe                                | C, C-7A          | 1500                | 3                                  |         |      |         |

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G16.5



G25



G30



G40



A19



B10

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## DECORATIVE LAMPS

| Watts | Bulb  | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation     | Volts           | Pkg Qty          | Description                                | Class & Filament                 | Avg Rated Life(hrs)             | MOL (in)                        |                                 |                                 |
|-------|-------|------------|----------------|---------------------|---------------------------|-----------------|------------------|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 40    | G16.5 | Candelabra | 13667          | ● ▼                 | 40G16.5CW/BL              | 120             | 12               | White Globe                                | C, C-7A                          | 1500                            | 3                               |                                 |                                 |
|       |       |            | 10300          | ● ▼                 | 40G16.5/BL                | 120             | 12               | Clear Globe                                | C, C-7A                          | 1500                            | 3                               |                                 |                                 |
|       |       |            | 10299          | ● ▼                 | 40G16.5M/BL               | 120             | 12               | White Globe                                | C, C-7A                          | 1500                            | 3                               |                                 |                                 |
|       | G25   | Med        | 13966          | ● ●                 | 40G25/DAY/1/6             | 120             | 6                | Daylight Globe                             | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14002          | ● ●                 | 40G25/DAY/1/48            | 120             | 48               | Daylight Globe                             | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14147          | ● ●                 | 40G25/DL/RP               | 120             | 6                | Clear Double Life Globe                    | C, C-9                           | 3000                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14148          | ● ●                 | 40G25/DLSW/RP             | 120             | 6                | Soft White Double Life Globe               | C, C-9                           | 3000                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14175          | ● ●                 | 40G25/DLSW/1/48           | 120             | 48               | Soft White Double Life Globe               | C, C-9                           | 3000                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14174          | ● ●                 | 40G25/DL/1/48             | 120             | 48               | Clear Double Life Globe                    | C, C-9                           | 3000                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14191          | ● ●                 | 40G25/CVP/130V            | 130             | 6                | Clear Globe                                | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14283          | ● ●                 | 40G25/RP                  | 120             | 6                | Clear Globe                                | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14266          | ● ●                 | 40G25                     | 120             | 24               | Clear Globe                                | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14212          | ● ●                 | 40G25/3PK/RP              | 120             | 24               | Clear Globe                                | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14190          | ● ●                 | 40G25/M/CVP130V           | 130             | 6                | Soft White Globe                           | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14287          | ● ●                 | 40G25/M/RP                | 120             | 6                | Soft White Globe                           | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14267          | ● ●                 | 40G25/M                   | 120             | 24               | Soft White Globe                           | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14213          | ● ●                 | 40G25/M/3PK/RP            | 120             | 24               | Soft White Globe                           | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | 14235          | ● ●                 | 40G25/M/DIYPACK           | 120             | 24               | Soft White Globe                           | C, C-9                           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       |       |            | G30            | Med                 | 14405                     | ●               | 40G30M/RP        | 120  | 6                                | Soft White Globe                | C, C-9                          | 2500                            | 5 <sup>1</sup> / <sub>2</sub>   |
|       |       |            | G40            | Med                 | 14619                     | ●               | 40G40/RP         | 120  | 6                                | Clear Globe                     | C, C-9                          | 2500                            | 6 <sup>15</sup> / <sub>16</sub> |
| 14620 | ●     | 40G40M/RP  |                |                     | 120                       | 6               | Soft White Globe | C, C-9                                     | 2500                             | 6 <sup>15</sup> / <sub>16</sub> |                                 |                                 |                                 |
| 60    | A19   | Med Brass  | 10613          |                     | 60A/SB                    | 120             | 120              | Silver Bowl                                | C, CC-8                          | 1000                            | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                                 |
|       | B10   | Candelabra | 13777          | ● ▼ ●               | 60B10C/DL/BL/2PK          | 120             | 12               | Clear Double Life Décor Bent Tip           | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13705          | ● ▼ ●               | 60B10C/DL/BL/4PK          | 120             | 24               | Clear Double Life Décor Bent Tip Four Pack | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13744          | ● ▼ ●               | 60B10C/CRYSTAL/DL/BL/2PK  | 120             | 12               | Double Life Crystal Bent Tip               | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13749*         | ● ▼ ●               | 60B10C/CRYSTAL/DL/BL/4/24 | 120             | 24               | Double Life Crystal Bent Tip               | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13778          | ● ▼ ●               | 60B10C/DLF/BL/2PK         | 120             | 12               | Frosted Double Life Décor Bent Tip         | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13754*         | ● ▼ ●               | 60B10C/DLF/BL/4PK         | 120             | 24               | Frosted Double Life Décor Bent Tip         | C, C-7A                          | 3000                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13460          | ● ▼ ●               | 60B10C/BL/2PK             | 120             | 12               | Clear Décor Bent Tip                       | C, C-7A                          | 1500                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13649          | ● ▼ ●               | 60B10C/BL/4PK             | 120             | 24               | Clear Décor Bent Tip                       | C, C-7A                          | 1500                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13572          | ● ▼ ●               | 60B10C/BAGPK              | 120             | 200              | Clear Décor Bent Tip                       | C, C-7A                          | 1500                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13684          | ● ▼ ●               | 60B10C/T/BL/2PK           | 120             | 12               | Clear Décor Blunt Tip                      | C, C-7A                          | 1500                            | 3 <sup>5</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13461          | ● ▼ ●               | 60B10C/F/BL/2PK           | 120             | 12               | Frosted Décor Bent Tip                     | C, C-7A                          | 1500                            | 3 <sup>3</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | 13685          | ● ▼ ●               | 60B10C/F/T/BL/2PK         | 120             | 12               | Frosted Décor Blunt Tip                    | C, C-7A                          | 1500                            | 3 <sup>5</sup> / <sub>8</sub>   |                                 |                                 |
|       |       |            | Med            | 13323               | ● ▼ ●                     | 60B10/DL/BL/2PK | 120              | 12   | Clear Double Life Décor Bent Tip | C, C-7A                         | 3000                            | 3 <sup>13</sup> / <sub>16</sub> |                                 |
|       |       |            | 13333*         | ● ▼ ●               | 60B10/DL/BL/4PK           | 120             | 24               | Clear Double Life Décor Bent Tip           | C, C-7A                          | 3000                            | 3 <sup>13</sup> / <sub>16</sub> |                                 |                                 |



## DECORATIVE LAMPS

| Watts | Bulb  | Base       | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts      | Pkg Qty                      | Description                         | Class & Filament | Avg Rated Life(hrs)             | MOL (in)                        |                               |                               |
|-------|-------|------------|----------------|---------------------|-----------------------|------------|------------------------------|-------------------------------------|------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|
| 60    | B10   | Med        | 13324          | ● ▼ ▲               | 60B10/DLF/BL/2PK      | 120        | 12                           | Frosted Double Life Décor Bent Tip  | C, C-7A          | 3000                            | 3 <sup>13</sup> / <sub>16</sub> |                               |                               |
|       |       |            | 13442          | ● ▼ ▲               | 60B10/BL/2PK          | 120        | 12                           | Clear Décor Bent Tip                | C, C-7A          | 1500                            | 3 <sup>13</sup> / <sub>16</sub> |                               |                               |
|       |       |            | 13650          | ● ▼ ▲               | 60B10/BL/4PK          | 120        | 24                           | Clear Décor Bent Tip                | C, C-7A          | 1500                            | 3 <sup>13</sup> / <sub>16</sub> |                               |                               |
|       |       |            | 13721          | ● ▼ ▲               | 60B10/T/BL/2PK        | 120        | 12                           | Clear Décor Blunt Tip               | C, C-7A          | 1500                            | 3 <sup>9</sup> / <sub>16</sub>  |                               |                               |
|       |       |            | 13443          | ● ▼ ▲               | 60B10/F/BL/2PK        | 120        | 12                           | Frosted Décor Bent Tip              | C, C-7A          | 1500                            | 3 <sup>13</sup> / <sub>16</sub> |                               |                               |
|       |       |            | 13722          | ● ▼ ▲               | 60B10/F/T/BL/2PK      | 120        | 12                           | Frosted Décor Blunt Tip             | C, C-7A          | 1500                            | 3 <sup>9</sup> / <sub>16</sub>  |                               |                               |
|       | C15   | Med        | 13757          | ●                   | 60C15/SG/BL           | 120        | 6                            | Spun-Glo Clear Fiber Wrapped        | C, C-9           | 4000                            | 4 <sup>1</sup> / <sub>2</sub>   |                               |                               |
|       | F15   | Med        | 13992          | ●                   | 60F/BL                | 120        | 12                           | Clear Flame Shape                   | C, C-7A          | 1500                            | 4 <sup>1</sup> / <sub>2</sub>   |                               |                               |
| 13993 |       |            | ●              | 60F/CL              | 120                   | 24         | Clear Flame Shape            | C, C-7A                             | 1500             | 4 <sup>1</sup> / <sub>2</sub>   |                                 |                               |                               |
| 13982 |       |            | ●              | 60F/IC/BL/2PK       | 120                   | 12         | Iridescent Flame Shape       | C, C-7A                             | 1500             | 4 <sup>1</sup> / <sub>2</sub>   |                                 |                               |                               |
|       | G16.5 | Candelabra | 13665          | ● ▼                 | 60G16.5C/BL           | 120        | 12                           | Clear Globe                         | C, C-2           | 1500                            | 3                               |                               |                               |
| 13664 |       |            | ● ▼            | 60G16.5C/W/BL       | 120                   | 12         | Soft White Globe             | C, C-2                              | 1500             | 3                               |                                 |                               |                               |
|       |       | Med        | 10302          | ● ▼                 | 60G16.5/BL            | 120        | 12                           | Clear Globe                         | C, C-7A          | 1500                            | 3                               |                               |                               |
| 10301 |       |            | ● ▼            | 60G16.5/W/BL        | 120                   | 12         | White Globe                  | C, C-7A                             | 1500             | 3                               |                                 |                               |                               |
|       | G25   | Med        | 13967          | ● ▲                 | 60G25/DAY/1/6         | 120        | 6                            | Daylight Globe                      | C, C-9           | 1500                            | 4 <sup>7</sup> / <sub>16</sub>  |                               |                               |
| 14003 |       |            | ● ▲            | 60G25/DAY/1/48      | 120                   | 48         | Daylight Globe               | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14149 |       |            | ● ▲            | 60G25/DL/RP         | 120                   | 6          | Clear Double Life Globe      | C, C-9                              | 3000             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14150 |       |            | ● ▲            | 60G25/DLSW/RP       | 120                   | 6          | Soft White Double Life Globe | C, C-9                              | 3000             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14104 |       |            | ● ▲            | 60G25/DLSW/RP/48    | 120                   | 48         | Soft White Double Life Globe | C, C-9                              | 3000             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14106 |       |            | ● ▲            | 60G25/DL/RP/48      | 120                   | 48         | Clear Double Life Globe      | C, C-9                              | 3000             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14261 |       |            | ● ▲            | 60G25/RP            | 120                   | 6          | Clear Globe                  | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14280 |       |            | ● ▲            | 60G25               | 120                   | 24         | Clear Globe                  | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14214 |       |            | ● ▲            | 60G25/3PK/RP        | 120                   | 24         | Clear Globe                  | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14262 |       |            | ● ▲            | 60G25/W/RP          | 120                   | 6          | Soft White Globe             | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14281 |       |            | ● ▲            | 60G25/W             | 120                   | 24         | Soft White Globe             | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
| 14215 |       |            | ● ▲            | 60G25/W/3PK/RP      | 120                   | 24         | Soft White Globe             | C, C-9                              | 1500             | 4 <sup>7</sup> / <sub>16</sub>  |                                 |                               |                               |
|       |       |            | G30            | Med                 | 14407                 | ●          | 60G30/RP                     | 120                                 | 6                | Clear Globe                     | C, C-9                          | 2500                          | 5 <sup>1</sup> / <sub>2</sub> |
| 14406 |       |            |                |                     | ●                     | 60G30/W/RP | 120                          | 6                                   | Soft White Globe | C, C-9                          | 2500                            | 5 <sup>1</sup> / <sub>2</sub> |                               |
|       | G40   | Med        | 14621          | ●                   | 60G40/RP              | 120        | 6                            | Clear Globe                         | C, C-9           | 2500                            | 6 <sup>15</sup> / <sub>16</sub> |                               |                               |
| 14622 |       |            | ●              | 60G40/W/RP          | 120                   | 6          | Soft White Globe             | C, C-9                              | 2500             | 6 <sup>15</sup> / <sub>16</sub> |                                 |                               |                               |
| 100   | A21   | Med        | 13195          | ● 2                 | 100A21/1SB/IF         | 120        | 24                           | Silver Bowl                         | C, CC-6          | 1000                            | 5 <sup>5</sup> / <sub>16</sub>  |                               |                               |
|       | G40   | Med        | 14623          | ●                   | 100G40/RP             | 120        | 6                            | Clear Globe                         | C, C-9           | 2500                            | 6 <sup>15</sup> / <sub>16</sub> |                               |                               |
|       |       |            | 14624          | ●                   | 100G40/W/RP           | 120        | 6                            | Soft White Globe                    | C, C-9           | 2500                            | 6 <sup>15</sup> / <sub>16</sub> |                               |                               |
| 150   | G40   | Med        | 14913          | ●                   | 150G40/W/RP           | 120        | 6                            | Soft White Globe                    | C, C-9           | 2500                            | 6 <sup>15</sup> / <sub>16</sub> |                               |                               |
|       | P25   | Med Brass  | 15014          | 2                   | 150P25/2SB            | 120        | 60                           | Silver Bowl Clear Hard Glass Button | C, C-5           | 200                             | 4 <sup>3</sup> / <sub>4</sub>   |                               |                               |
|       | PS25  | Med        | 15271          | ●                   | 150PS25/SB            | 120        | 60                           | Silver Bowl                         | C, C-9           | 1000                            | 6 <sup>15</sup> / <sub>16</sub> |                               |                               |
| 300   | PS35  | Mogul      | 15958          |                     | 300PS35/SB/IF         | 120        | 24                           | Silver Bowl Inside Frost Brass Base | C, C-9           | 1000                            | 9 <sup>3</sup> / <sub>8</sub>   |                               |                               |

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A19



A21



A23

## TRAFFIC SIGNAL LAMPS

| Watts | Bulb | Base      | Product Symbols & Number Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Description                                      | Class & Filament | Avg Rated Life(hrs) | Approx Lumens | LCL (in)                       | MOL (in)                       |
|-------|------|-----------|------------------------------------|-----------------------|-------|---------|--|------------------|---------------------|---------------|--------------------------------|--------------------------------|
| 54    | A19  | Med Brass | 10441 ▼13                          | 54A19TS/8M/SS         | 120   | 120     | Clear Traffic Signal KR Filled w/ Heat Reflector | C, C-11V         | 8000                | 515           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 60    | A19  | Med Brass | 10442 ▼13                          | 60A19TS/8M/SS         | 120   | 120     | Clear Traffic Signal KR Filled w/ Heat Reflector | C, C-11V         | 8000                | 595           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 67    | A21  | Med Brass | 12570 ▼                            | 67A21/40/8M           | 120   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 610           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12562 ▼                            | 67A21/40/8M           | 130   | 120     | Clear Traffic Signal                             | C, C-9           | 8000                | 610           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12572 ▼                            | 67A21/40/8M           | 130   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 610           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 69    | A21  | Med Brass | 12496 ▼                            | 69A21/TS/8M           | 120   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 640           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12497 ▼                            | 69A21/TS/8M           | 125   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 665           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12498 ▼                            | 69A21/TS/8M           | 130   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 640           | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 90    | A19  | Med Brass | 12299 ▼13                          | 90A19/1/TS/8M/SS      | 120   | 120     | Clear Traffic Signal KR Filled w/ Heat Reflector | C, C-11V         | 8000                | 1000          | 3                              | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 11151 ▼★13                         | 90A19/TS/8M/SS        | 120   | 120     | Clear Traffic Signal KR Filled w/ Heat Reflector | C, C-11V         | 8000                | 1000          | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 101   | A23  | Med Brass | 13305 ▼                            | 101A23/6M             | 120   | 120     | Inside Frost Traffic Signal                      | C, C-9           | 6000                | 900           | 4 <sup>3</sup> / <sub>8</sub>  | 6 <sup>1</sup> / <sub>16</sub> |
| 116   | A21  | Med Brass | 12833 ▼                            | 116A21/TS/8M          | 120   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 1260          | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12838 ▼                            | 116A21/TS/8M          | 125   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 1235          | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
|       |      |           | 12817 ▼                            | 116A21/TS/8M          | 130   | 24      | Clear Traffic Signal                             | C, C-9           | 8000                | 1260          | 2 <sup>7</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>16</sub> |
| 135   | A21  | Med Brass | 12843 ▼13                          | 135A21/TS/8M/SS       | 120   | 24      | Clear Traffic Signal KR Filled w/ Heat Reflector | C, C-11V         | 8000                | 1750          | 3                              | 4 <sup>7</sup> / <sub>16</sub> |
| 170   | A23  | Med Brass | 15017 ▼                            | 1950L/A23/8M          | 120   | 60      | Clear Traffic Signal                             | C, C-9           | 8000                | 1950          | 3                              | 4 <sup>3</sup> / <sub>4</sub>  |
|       |      |           | 15019 ▼                            | 1950L/A23/8M          | 125   | 60      | Clear Traffic Signal                             | C, C-9           | 8000                | 1950          | 3                              | 4 <sup>3</sup> / <sub>4</sub>  |
|       |      |           | 15021 ▼                            | 1950L/A23/8M          | 130   | 60      | Clear Traffic Signal                             | C, C-9           | 8000                | 1950          | 3                              | 4 <sup>3</sup> / <sub>4</sub>  |

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



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**SYMBOLS & FOOTNOTES FOR INCANDESCENT LAMPS**

| Symbol  | Description  |
|---|--|
|  | New item introduced within the past year.  |
|  | Indicates aluminum base.   |
|  | Do not operate in household sockets.   |
|  | Operate base down.   |
|  | Operate base down to horizontal.   |
|  | Heat resistant, hard glass.  |
|  | PAR lamps are suitable for indoor and outdoor use.   |
|  | Not recommended for horizontal operation.  |
|  | Do not operate in paper lined sockets.   |
|  | Operate in any position.   |
|  | This lamp or ballast meets minimum Federal efficiency standards.   |
|  | This ECOLOGIC® lamp was designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states. Disposal regulations may vary; check local and state regulations. |
| <b>RG3</b>  | Lamp qualifies as Risk Group 3 per ANSI / IESNA RP27.3-96.   |
|  | Use Caution when operating this product. Read and understand all warnings and instructions on packaging before installation.   |

| Footnote | Description   |
|----------|---|
| 1        | Should not be used in equipment where base temperature will exceed 500° F.  |
| 2        | Operate only in porcelain sockets.  |
| 3        | Not recommended for use in enclosed close-fitting housings.   |
| 4        | May not give satisfactory performance if any accessory lighting equipment touches the glass bulb.   |
| 5        | Should be shielded against moisture falling on bulb.  |
| 6        | Not for use in ceiling fan fixtures   |
| 7        | Nominal wattage - actual may be slightly higher to achieve required light output.   |
| 8        | Indefinite long life. Designed for life in excess of 10,000 hours. In-service life depends upon burning conditions.   |
| 9        | Average laboratory life is 200 hours for vacuum cleaner and 600 hours for sewing machine services.  |
| 10       | Additional product information can be found in the SYLVANIA Automotive, Miniature and Sealed Beam Lamp Catalog Form 208.  |
| 11       | Incandescent lamps operated at less than rated voltage provide a lower light output, longer life, lower color temperature and are less efficient in terms of lumens per watt. |
| 12       | In base up operation, heat may eventually deteriorate paper-lined or plastic sockets.   |
| 13       | Minimum run. Check nearest OSRAM SYLVANIA Sales Office for details.   |
| 14       | For diesel electric locomotives without voltage regulators.   |
| 15       | Operation of lamp in any position other than base up may result in some loss of protective coating.   |
| 16       | For use only with heat-resisting connector and with bulb supported by bulb rim or metal shell of base.  |
| 17       | Operate only in porcelain or other socket approved for 150 watt PAR lamp.   |
| 18       | Designed for service other than illumination.   |
| 19       | A protective shield must be used external to the lamp.  |
| 20       | High temperature base. Designed to operate in equipment where base temperature run between 500F - 570F.   |

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## OSRAM SYLVANIA: THE LEADER IN HALOGEN LAMP TECHNOLOGY

Halogen lamps are generally of the 'lamp within a lamp' design. The outer 'lamp' or jacket is made from a heavy walled borosilicate glass. The inner 'lamp' is the tungsten halogen capsule that is made from either glass or quartz and contains a filament, lead wires and a halogen gas mixture.

### CAPSYLITE IR®

Save energy while still making your merchandise stand out from the crowd. Energy efficient SYLVANIA CAPSYLITE IR lamps use a specially designed halogen light source that actually recycles some of the heat it creates to generate more light for less energy.



### Daylight Plus™ PAR

The special blue lenses on these halogen PAR lamps help to fill your space with whiter, more natural light.



### CAPSYLITE® Daylight Plus A-Line

Replace a standard incandescent lamp with a CAPSYLITE Daylight Plus A-Line lamp to get a crisp, bright, more natural light that really lasts. Average rated life for these lamp types is 3,000 to 3,500 hours - up to four times the ratings of the lamps that they replace!



### PAR38

PAR38 lamps are energy saving replacements for standard incandescent BR40 lamps. They are also the workhorses of retail lighting. SYLVANIA CAPSYLITE SPL PAR38 lamps offer cutting edge optics and optimal performance to make your merchandise look its best.



### PAR30 Long Neck

These energy efficient replacements for BR30 lamps are used everywhere from recessed cans to track lights. More efficient than competitors long neck PAR30 lamps because of our unique neck extender design, SYLVANIA PAR30LN SPL® lamps are the perfect choice every time.



### PAR20

SYLVANIA CAPSYLITE SPL PAR20 lamps are energy saving replacements for standard incandescent R20 lamps. Replacing a 50W R20 lamp with a SYLVANIA exclusive 35PAR20 lamp results in an energy savings of 15W per lamp with an increase in light output of nearly 10%!



### TRU-AIM® Low Voltage Lamps

SYLVANIA's complete line of TRU-AIM low voltage lamps offer something for everyone. Choose from standard MR16s (TRU-AIM), aluminized MR16s (TRU-AIM Brilliant) or top of the line TRU-AIM IR.



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TUNGSTEN HALOGEN

**FILAMENTS**



CC-8



CC-2V



CC-6



Axial (AX)



Transverse (TR)



C-8 Double End

**BASES**



E10 Miniture Screw



E11 Mini can



E26 Medium Skt.



E26 Medium



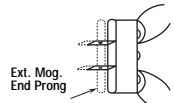
Recessed Single Contact RSC R7s



Screw Term.

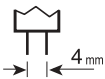


DC Bayonet B15d BA15d

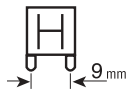


Ext. Mog. End Prong

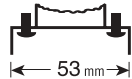
Mogul End Prong



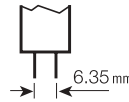
G4



G9



G53



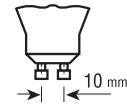
GY 6.35



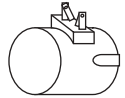
GU4



GU5.3



GU10



Med Side Pr.

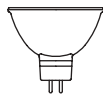
**LAMPS**



T3, T4 BI-PIN



T4 G9.



MR16, MR11



PAR14



PAR16



PAR16 GU10



PAR20



PAR30



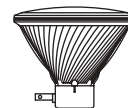
PAR30LN



PAR36 Medium Skt.



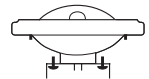
PAR38



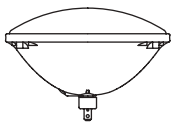
PAR38 Medium Side Prong



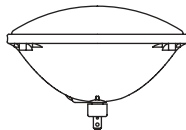
AR70



AR111



PAR56 Mog End Pr



PAR64 Mog End Pr



T4 DC Bayonet



T3, T4 Mini Can



T3, T4 RSC Double End



T10



A19

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 ...YLITE IR®

**HOW TO READ PRODUCT INFORMATION - TUNGSTEN HALOGEN**

| Watts | Bulb    | Base        | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Beam Type    | Class & Filament | Avg Rated Life (hrs) | Approx Lumens | CBCP | Beam Angle | LCL (in) | MOL (in) |
|-------|---------|-------------|----------------|---------------------|-----------------------|-------|---------|-------------|--------------|------------------|----------------------|---------------|------|------------|----------|----------|
| 40    | T4      | G9          | 57017*         | ☀ 5,10              | 40CAPSYLITEG9/F/BL    | 120   | 10      | Frosted     |              | C, CC-2V         | 2000                 | 480           |      |            | 1        | 1 7/8    |
| 60    | PAR38   | E26 Med Skt | 14466          | ☀ ★ 10,11           | 60PAR/CAP/IR/FL30     | 120   | 15      | Flood       | Flood        | CC-8             | 3000                 | 1110          | 3600 | 30         |          | 5 1/8    |
| 50    | PAR30LN | E26 Med     | 14520          | ☀ ★ 10,19,20        | 50PAR30LN/CAP/NFL25   | 120   | 15      |             | Narrow Flood | CC-8             | 2500                 | 660           | 2300 | 25         |          | 4 1/8    |

|                                |  |
|--------------------------------|--|
| <b>Bulb</b>                    | Describes the shape of the bulb followed by the bulb's major diameter given in eighths of an inch. See page 35: Halogen Lamps.   |
| <b>Base</b>                    | See page 35: Base Identification.  |
| <b>Symbols &amp; Footnotes</b> | All symbols and footnotes that apply to a specific product will appear in this space. The explanations of the symbols and footnotes are at the end of the halogen section on page 56-57. |
| <b>Lamp Finish</b>             | Applies only to non-reflector type lamps, usually either clear or frosted.   |
| <b>Beam Type</b>               | Applies only to reflector type lamps. Describes the beam angle qualitatively as either a spot or a flood, etc.   |

**How to Read Ordering Abbreviations**

| 40CAPSYLITE®/G9/F/BL |                             | 60PAR/CAP/IR/FL30 |                             | 50PAR30LN/CAP/SPL/NFL25 |                              |
|----------------------|-----------------------------|-------------------|-----------------------------|-------------------------|------------------------------|
| 40                   | Nominal lamp wattage        | 60                | Nominal lamp wattage        | 50                      | Nominal lamp wattage         |
| CAPSYLITE/G9         | CAPSYLITE lamp with G9 base | PAR               | Bulb shape PAR38            | PAR30LN                 | Bulb shape PAR30 Long Neck   |
| F                    | Frosted finish              | CAP               | CAPSYLITE lamp              | CAP                     | CAPSYLITE lamp               |
| BL                   | Blister Card Package        | IR                | Infrared conserving capsule | SPL®                    | SPL Optical System           |
|                      |                             | FL30              | Flood beam 30 degrees       | NFL25                   | Narrow Flood beam 25 degrees |

**ANSI BEAM ANGLE DESIGNATION**

Beam angles for reflector lamps are designated to conform with ANSI C78.379 -Classification of the Beam Patterns of Reflector Lamps. For beam angles less than 13°, beam angles are rounded to the nearest whole number. For beam angles between 13° and 50°, values are rounded to the nearest 5°. For beam angles 50° and greater, the value is rounded to the nearest 10°. As an example, a family of lamps with an average beam angle of 13° is classified as 15°, and a family of lamps with an average beam angle of 55° would be classified as 60°.

**LIFE RATING**

The average rated life for 130V tungsten halogen lamps operated at 120V is conservatively estimated to be approximately 2 times the life when operated at rated voltage (130V).

**ANSI CODE REFERENCE GUIDE**

| ANSI CODE | ITEM NO. | L.L. ORDERING ABBREVIATION (EXCEPT VOLTS) | VOLTS | PAGE | ANSI CODE | ITEM NO. | L.L. ORDERING ABBREVIATION (EXCEPT VOLTS) | VOLTS | PAGE | ANSI CODE | ITEM NO. | L.L. ORDERING ABBREVIATION (EXCEPT VOLTS) | VOLTS | PAGE |
|-----------|----------|---|-------|------|-----------|----------|---|-------|------|-----------|----------|---|-------|------|
| BAB       | 54200    | 20MR16/FL/40                              | 12    | 53   | ETF       | 58737    | 150Q/DC                                   | 120   | 49   | FMW       | 54203    | 35MR16/FL/40                              | 12    | 53   |
| EHM       | 58923    | 300T3Q/CL                                 | 120   | 50   | ETG       | 58735    | 150Q/CL/MC/2                              | 120   | 49   | FNV       | 54206    | 50MR16/VWFL60                             | 12    | 53   |
| EHT       | 58762    | 250Q/CL/MC                                | 120   | 49   | ETH       | 58736    | 150Q/MC                                   | 120   | 49   | FRA       | 58602    | 35MR16/SP20                               | 12    | 53   |
| ESL       | 58738    | 150Q/CL/MC                                | 120   | 49   | EVR       | 58766    | 500Q/CL/MC                                | 120   | 49   | FRB       | 54204    | 35MR16/NSP/8                              | 12    | 53   |
| ESM       | 58763    | 250Q/MC                                   | 120   | 49   | EXN       | 54207    | 50MR16/FL/40                              | 12    | 53   | FPA       | 58563    | 65MR16/NSP/10                             | 12    | 53   |
| ESN       | 58761    | 100Q/CL/MC                                | 120   | 49   | EXT       | 54208    | 50MR16/NSP/12                             | 12    | 53   | FPC       | 58565    | 65MR16/NFL/25                             | 12    | 53   |
| ESP       | 58742    | 150Q/CL/DC/1                              | 120   | 49   | EXZ       | 54205    | 50MR16/NFL/25                             | 12    | 53   | FPB       | 58564    | 65MR16/FL/40                              | 12    | 53   |
| ESR       | 58755    | 100Q/CL/DC                                | 120   | 49   | EYT       | 58769    | 750Q/CL/MC                                | 120   | 49   | FTB       | 55109    | 20MR11/SP10                               | 12    | 53   |
| ESS       | 58720    | 250Q/CL/DC                                | 120   | 49   | EYV       | 58768    | 500Q/MC                                   | 130   | 49   | FTD       | 55107    | 20MR11/FL35                               | 12    | 53   |
| ESX       | 54201    | 20MR16/NSP/8                              | 12    | 53   | EYW       | 58756    | 500Q/CL/MC                                | 130   | 49   | FTE       | 55113    | 35MR11/SP10                               | 12    | 53   |
| ETB       | 58753    | 250Q/DC                                   | 120   | 49   | EYX       | 58767    | 500Q/MC                                   | 120   | 49   | FTH       | 55111    | 35MR11/FL40                               | 12    | 53   |
| ETC       | 58741    | 150Q/CL/DC                                | 120   | 49   | FCL       | 58856    | 500T3Q/CL                                 | 120   | 50   |           |          |   |       |      |
| ETD       | 58757    | 100Q/DC                                   | 120   | 49   | FCZ       | 58883    | 500T3Q                                    | 120   | 49   |           |          |   |       |      |

## TUNGSTEN HALOGEN BRAND NAME GUIDE

| SYLVANIA                        | GE*                        | PHILIPS**                        | OSRAM***          |
|---------------------------------|----------------------------|----------------------------------|-------------------|
| CAPSYLITE® SPL® PAR38           | HALOGEN PLUS PAR 38        | MasterLine PAR38 DiOptic         | HALOPAR38         |
| CAPSYLITE SPL PAR30             | Compact PAR30              | MasterLine PAR30S WISO           | HALOPAR30         |
| CAPSYLITE SPL PAR30 Long Neck   | Compact PAR30 Long Neck    | MasterLine PAR30L Long Neck WISO |                   |
| CAPSYLITE SPL PAR20             | Compact PAR20              | MasterLine PAR20 WISO            | HALOPAR20         |
| CAPSYLITE Designer 16           | HALOGEN Compact PAR16      | MasterLine PAR16                 | HALOPAR16         |
| TRU-AIM TITAN®                  | ConstantColor Precise      | Continuum Color                  | Decostar 51 TITAN |
| TRU-AIM® Standard MR16          | Standard MR16              | BrilliantLine Pro MR16           | Decostar 51       |
| TRU-AIM IR                      | PRECISE COVERGLASS IR MR16 | MasterLine ES IRC MRC16          | Decostar 51 IRC   |
| TRU-AIM Standard MR11           | STANDARD MR11              | BrilliantLine Pro MRC11          | Decostar 35       |
| TRU-AIM BRILLIANT®              |                            | Continuum Pro Aluminum Coated    | Decostar 51 ALU   |
| STANDARD Bi-Pin                 | Quartz Halogen             | Halogen Low Voltage Capsule      | HALOSTAR Standard |
| STARLITE Bi-Pin                 |                            | Halogen Low Voltage Capsule      | HALOSTAR STARLITE |
| Double End                      | Quartzline Halogen         | Halogen Double-Ended Linear      | HALOLINE          |
| SUPER Q                         | Quartzline Halogen         | Halogen Single-Ended             | HALOLUX Ceram     |
| Double End Quartz Infrared Heat | Tubular Quartz Heat        | Quartz Infrared Heat             |                   |
| Large PAR                       | Quartzline Halogen         | Halogen PAR56 and PAR64          |                   |
| CAPSYLITE A-Line Midbreak       | Halogen A-Line             | Halogena                         | HALOLUX BT        |
| Halogen T10                     |                            |                                  | HALOLUX Ceram     |
| AR111                           |                            |                                  | HALOSPOT 111      |
| AR70                            |                            |                                  | HALOSPOT 70       |
| SYLVANIA 250W CAPSYLITE PAR 38  | Quartzline PAR38           |                                  |                   |
| CAPSYLITE IR® PAR38             | HIR PAR 38                 | MasterLine IRC PAR38             |                   |
| CAPSYLITE IR PAR30              | Compact HIR PAR 30         |                                  |                   |
| CAPSYLITE COOL-LUX              | Cool Beam PAR 38           |                                  |                   |

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**CAPSYLITE® A-LINE**

| Watts  | Bulb | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish  | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|--|------|---------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|----------|----------|
| 42   | A19  | E26 Med | 18907          |                     | 42ACAP                | 120   | 12      | Inside Frost | C, CC-8          | 3500                | 570    | 3 1/8    | 4 3/8    |
|  |      |         | 18908          | 1                   | 42ACAP                | 130   | 12      | Inside Frost | C, CC-8          | 3500                | 570    | 3 1/8    | 4 3/8    |
| <i>@ 120 volts, approximate 37 watts, 450 lumens, 7000 hours</i> |      |         |                |                     |                       |       |         |              |                  |                     |        |          |          |
| 52   | A19  | E26 Med | 18921          |                     | 52ACAP                | 120   | 12      | Inside Frost | C, CC-8          | 3500                | 770    | 3 1/8    | 4 3/8    |
|  |      |         | 18922          | 1                   | 52ACAP                | 130   | 12      | Inside Frost | C, CC-8          | 3500                | 770    | 3 1/8    | 4 3/8    |
| <i>@ 120 volts, approximate 46 watts, 600 lumens, 7000 hours</i> |      |         |                |                     |                       |       |         |              |                  |                     |        |          |          |
| 72   | A19  | E26 Med | 18937          |                     | 72ACAP                | 120   | 12      | Inside Frost | C, CC-8          | 3500                | 1150   | 3 1/8    | 4 3/8    |
|  |      |         | 18938          | 1                   | 72ACAP                | 130   | 12      | Inside Frost | C, CC-8          | 3500                | 1150   | 3 1/8    | 4 3/8    |
| <i>@ 120 volts, approximate 63 watts, 900 lumens, 7000 hours</i> |      |         |                |                     |                       |       |         |              |                  |                     |        |          |          |

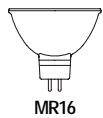
**DAYLIGHT PLUS™ A-LINE**

| Watts | Bulb | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation   | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|---------|----------------|---------------------|-------------------------|-------|---------|-------------|------------------|---------------------|--------|----------|----------|
| 60    | A19  | E26 Med | 18998          |                     | 60AHAL/DAY/CL/CLAM      | 120   | 6       | Clear       | C, CC-8          | 3000                | 960    | 3 1/8    | 4 3/8    |
|       |      |         | 18999          |                     | 60AHAL/DAY/CLAM         | 120   | 6       | Frosted     | C, CC-8          | 3000                | 960    | 3 1/8    | 4 3/8    |
|       |      |         | 18942          |                     | 60AHAL/DAY/CRYSTAL/CLAM | 120   | 6       | Crystal     | C, CC-8          | 3000                | 960    | 3 1/8    | 4 3/8    |
| 75    | A19  | E26 Med | 19000          |                     | 75AHAL/DAY/CL/CLAM      | 120   | 6       | Clear       | C, CC-8          | 3000                | 1330   | 3 1/8    | 4 3/8    |
|       |      |         | 18997          |                     | 75AHAL/DAY/CLAM         | 120   | 6       | Frosted     | C, CC-8          | 3000                | 1300   | 3 1/8    | 4 3/8    |
|       |      |         | 18906          |                     | 75AHAL/DAY/CRYSTAL/CLAM | 120   | 6       | Crystal     | C, CC-8          | 3000                | 1330   | 3 1/8    | 4 3/8    |
| 100   | A19  | E26 Med | 19003          |                     | 100AHAL/DAY/CL/CLAM     | 120   | 6       | Clear       | C, CC-8          | 3000                | 1800   | 3 1/8    | 4 3/8    |
|       |      |         | 18905          |                     | 100AHAL/DAY/CLAM        | 120   | 6       | Frosted     | C, CC-8          | 3000                | 1800   | 3 1/8    | 4 3/8    |

**TUBULAR HALOGEN T10**

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|---------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|----------|
| 75    | T10  | E26 Med | 18890          | 2                   | 75T10HAL/CL           | 120   | 15      | Clear       | C, CC-2V         | 2000                | 1100   | 2 15/16  | 4 1/8    |
|       |      |         | 18891          | 2                   | 75T10HAL/F            | 120   | 15      | Frosted     | C, CC-2V         | 2000                | 1050   | 2 15/16  | 4 1/8    |
| 100   | T10  | E26 Med | 18892          | 2                   | 100T10HAL/CL          | 120   | 15      | Clear       | C, CC-2V         | 2000                | 1500   | 2 15/16  | 4 1/8    |
|       |      |         | 18893          | 2                   | 100T10HAL/F           | 120   | 15      | Frosted     | C, CC-2V         | 2000                | 1430   | 2 15/16  | 4 1/8    |
| 150   | T10  | E26 Med | 18894          | 2,3                 | 150T10HAL/CL          | 120   | 15      | Clear       | C, CC-2V         | 2000                | 2500   | 2 15/16  | 4 1/8    |
|       |      |         | 18895          | 2,3                 | 150T10HAL/F           | 120   | 15      | Frosted     | C, CC-2V         | 2000                | 2400   | 2 15/16  | 4 1/8    |
| 250   | T10  | E26 Med | 18896          | 2,3                 | 250T10HAL/CL          | 120   | 15      | Clear       | C, CC-2V         | 2000                | 4200   | 2 15/16  | 4 1/8    |
|       |      |         | 18897          | 2,3                 | 250T10HAL/F           | 120   | 15      | Frosted     | C, CC-2V         | 2000                | 4000   | 2 15/16  | 4 1/8    |



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**INFRARED CONSERVING HALOGEN**

**TRU-AIM IR® MR16**

UV Filter capsule with axial filament in covered constant color, hard coat

np capsule.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58531          | ☀️ 4,5,6,7,8        | 20MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 6000   | 10   | 1 3/4      |          |
|       |      |       | 58532          | ☀️ 4,5,6,7,8        | 20MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 2300   | 25   | 1 3/4      |          |
|       |      |       | 58533          | ☀️ 4,5,6,7,8        | 20MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 1000   | 40   | 1 3/4      |          |
|       |      |       | 58838          | ☀️ 4,5,6,7,8        | 20MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 450    | 60   | 1 3/4      |          |
| 37    | MR16 | GU5.3 | 58641          | ☀️ 4,5,6,8,10       | 37MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 12500  | 10   | 1 3/4      |          |
|       |      |       | 58634          | ☀️ 4,5,6,8,10       | 37MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 4400   | 25   | 1 3/4      |          |
|       |      |       | 58633          | ☀️ 4,5,6,8,10       | 37MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 2200   | 40   | 1 3/4      |          |
|       |      |       | 58837          | ☀️ 4,5,6,8,10       | 37MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 1100   | 60   | 1 3/4      |          |
| 50    | MR16 | GU5.3 | 54175          | ☀️ 4,5,6,8,10       | 50MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 15000  | 10   | 1 3/4      |          |
|       |      |       | 54174          | ☀️ 4,5,6,8,10       | 50MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 5700   | 25   | 1 3/4      |          |
|       |      |       | 54173          | ☀️ 4,5,6,8,10       | 50MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 2850   | 40   | 1 3/4      |          |
|       |      |       | 54237          | ☀️ 4,5,6,8,10       | 50MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 1430   | 60   | 1 3/4      |          |

**CAPSYLITE IR® PAR20**

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type   | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|------|------------|----------|
| 40    | PAR20 | E26 Med | 14164          | ★ ☀️ 4,11,12        | 40PAR20/CAP/IR/NSP10  | 120   | 15      | Narrow Spot | C, CC-8          | 4000                | 600    | 5000 | 10         | 3 1/4    |
|       |       |         | 14166          | ★ ☀️ 4,11,12        | 40PAR20/CAP/IR/NFL30  | 120   | 15      | Narrow Spot | C, CC-8          | 4000                | 600    | 1300 | 30         | 3 1/4    |
|       |       |         | 14130          | ★ ☀️ 4,11,12        | 40PAR20/CAP/IR/WFL40  | 120   | 15      | Wide Flood  | C, CC-8          | 4000                | 600    | 1000 | 40         | 3 1/2    |

**CAPSYLITE IR® PAR30**

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|
| 40    | PAR30 | E26 Med | 13968          | ★ ☀️ 4,11,12        | 40PAR30/CAP/IR/NSP9   | 120   | 15      | Narrow Spot  | C, CC-8          | 4000                | 680    | 8800  | 9          | 3 5/8    |
|       |       |         | 13969          | ★ ☀️ 4,11,12        | 40PAR30/CAP/IR/NFL25  | 120   | 15      | Narrow Flood | C, CC-8          | 4000                | 680    | 2300  | 25         | 3 5/8    |
|       |       |         | 13970          | ★ ☀️ 4,11,12        | 40PAR30/CAP/IR/FL40   | 120   | 15      | Flood        | C, CC-8          | 4000                | 680    | 1300  | 40         | 3 5/8    |
| 50    | PAR30 | E26 Med | 14355          | ★ ☀️ 4,11,12        | 50PAR30/CAP/IR/NSP9   | 120   | 15      | Narrow Spot  | C, CC-8          | 3000                | 900    | 13000 | 9          | 3 5/8    |
|       |       |         | 14109          | ★ ☀️ 1,4,11,12      | 50PAR30/CAP/IR/NSP9   | 130   | 15      | Narrow Spot  | C, CC-8          | 3000                | 900    | 13000 | 9          | 3 5/8    |
|       |       |         | 14354          | ★ ☀️ 4,11,12        | 50PAR30/CAP/IR/NFL25  | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 900    | 2900  | 25         | 3 5/8    |

@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.



PAR30



PAR38

## INFRARED CONSERVING HALOGEN

| Watts   | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|---|-------|---------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 50  | PAR30 | E26 Med | 14132          | ★<br>1,4,11,12      | 50PAR30/CAP/IR/NFL25  | 130   | 15      | Narrow Flood | C, CC-8          | 3000                | 900    | 2900 | 25         | 3 5/8    |
| <i>@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.</i> |       |         |                |                     |                       |       |         |              |                  |                     |        |      |            |          |
|   |       |         | 14714          | ★<br>4,11,12        | 50PAR30/CAP/IR/FL40   | 120   | 15      | Flood        | C, CC-8          | 3000                | 900    | 1400 | 40         | 3 5/8    |
|   |       |         | 14131          | ★<br>1,4,11,12      | 50PAR30/CAP/IR/FL40   | 130   | 15      | Flood        | C, CC-8          | 3000                | 900    | 1400 | 40         | 3 5/8    |
| <i>@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.</i> |       |         |                |                     |                       |       |         |              |                  |                     |        |      |            |          |

## CAPSYLITE IR® PAR38

| Watts   | Bulb  | Base        | Product Number | Symbols & Footnotes | Ordering Abbreviation  | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|---|-------|-------------|----------------|---------------------|------------------------|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|
| 50  | PAR38 | E26 Med Skt | 14136          | ★<br>4,11,12,13     | 50PAR38/CAP/IR/SP9     | 120   | 15      | Spot         | C, CC-8          | 3000                | 850    | 14000 | 9          | 5 5/16   |
|   |       |             | 14124          | ★<br>1,4,11,12,13   | 50PAR38/CAP/IR/SP9     | 130   | 15      | Spot         | C, CC-8          | 3000                | 850    | 14000 | 9          | 5 5/16   |
| <i>@ 120 volts, approximate 44 watts, 650 lumens, 6000 hours.</i> |       |             |                |                     |                        |       |         |              |                  |                     |        |       |            |          |
|   |       |             | 14138          | ★<br>4,11,12,13     | 50PAR38/CAP/IR/NFL25   | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 850    | 3000  | 25         | 5 5/16   |
|   |       |             | 14125          | ★<br>1,4,11,12,13   | 50PAR38/CAP/IR/NFL25   | 130   | 15      | Narrow Flood | C, CC-8          | 3000                | 850    | 3000  | 25         | 5 5/16   |
| <i>@ 120 volts, approximate 44 watts, 650 lumens, 6000 hours.</i> |       |             |                |                     |                        |       |         |              |                  |                     |        |       |            |          |
| 55  | PAR38 | E26 Med Skt | 14126          | ★<br>4,11,12,13     | 55PAR38/CAP/IR/XP/SP9  | 120   | 15      | Spot         | C, CC-8          | 6000                | 800    | 14000 | 9          | 5 5/16   |
|   |       |             | 14127          | ★<br>4,11,12,13     | 55PAR38/CAP/IR/XP/FL30 | 120   | 15      | Flood        | C, CC-8          | 6000                | 800    | 2500  | 30         | 5 5/16   |
| 60  | PAR38 | E26 Med Skt | 14485          | ★<br>4,11,12,13     | 60PAR38/CAP/IR/SP9     | 120   | 15      | Spot         | C, CC-8          | 3000                | 1110   | 20000 | 9          | 5 5/16   |
|   |       |             | 14716          | ★<br>1,4,11,12,13   | 60PAR38/CAP/IR/SP9     | 130   | 15      | Spot         | C, CC-8          | 3000                | 1110   | 20000 | 9          | 5 5/16   |
| <i>@ 120 volts, approximate 53 watts, 845 lumens, 6000 hours.</i> |       |             |                |                     |                        |       |         |              |                  |                     |        |       |            |          |
|   |       |             | 14360          | ★<br>4,11,12,13     | 60PAR38/CAP/IR/WSP12   | 120   | 15      | Wide Spot    | C, CC-8          | 3000                | 1110   | 12000 | 12         | 5 5/16   |
|   |       |             | 14442          | ★<br>4,11,12,13     | 60PAR38/CAP/IR/NFL25   | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 1110   | 5000  | 25         | 5 5/16   |
|   |       |             | 14466          | ★<br>4,11,12,13     | 60PAR38/CAP/IR/FL30    | 120   | 15      | Flood        | C, CC-8          | 3000                | 1110   | 3600  | 30         | 5 5/16   |
|   |       |             | 14715          | ★<br>1,4,11,12,13   | 60PAR38/CAP/IR/FL30    | 130   | 15      | Flood        | C, CC-8          | 3000                | 1110   | 3600  | 30         | 5 5/16   |
| <i>@ 120 volts, approximate 53 watts, 845 lumens, 6000 hours.</i> |       |             |                |                     |                        |       |         |              |                  |                     |        |       |            |          |
| 80  | PAR38 | E26 Med Skt | 14347          | ★<br>4,12,13        | 80PAR38/CAP/IR/SP10    | 120   | 12      | Spot         | C, CC-8          | 3000                | 1500   | 25000 | 10         | 5 5/16   |
|   |       |             | 14327          | ★<br>4,12,13        | 80PAR38/CAP/IR/FL25    | 120   | 12      | Flood        | C, CC-8          | 3000                | 1500   | 5500  | 25         | 5 5/16   |
| 100   | PAR38 | E26 Med Skt | 14324          | ★<br>4,12,13        | 100PAR38/CAP/IR/SP10   | 120   | 12      | Spot         | C, CC-8          | 3000                | 2070   | 29000 | 10         | 5 5/16   |
|   |       |             | 14319          | ★<br>4,12,13        | 100PAR38/CAP/IR/NFL25  | 120   | 12      | Narrow Flood | C, CC-8          | 3000                | 2070   | 6300  | 25         | 5 5/16   |
|   |       |             | 14311          | ★<br>4,12,13        | 100PAR38/CAP/IR/FL40   | 120   | 12      | Flood        | C, CC-8          | 3000                | 2070   | 3400  | 40         | 5 5/16   |

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PAR20



PAR30LN



PAR38



PAR14



PAR16 GU10



PAR16

## CAPSYLITE® PAR DAYLIGHT PLUS™ PAR

| Watts | Bulb    | Base        | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|-------|---------|-------------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|
| 50    | PAR20   | E26 Med     | 15226          | ★ 12                | 50PAR20/DAY/NFL/RP    | 120   | 6       | Narrow Flood | C, CC-8          | 2000                | 460    | 1000  | 30         | 3 1/8    |
|       | PAR30LN | E26 Med     | 15227          | ★ 12,15             | 50PAR30LN/DAY/WFL/RP  | 120   | 6       | Wide Flood   | C, CC-8          | 2000                | 580    | 550   | 50         | 4 5/8    |
|       | PAR38   | E26 Med Skt | 15229          | ★ 12                | 50PAR38/DAY/FL/RP     | 120   | 6       | Flood        | C, CC-8          | 2000                | 560    | 1550  | 30         | 5 5/16   |
| 60    | PAR38   | E26 Med Skt | 15252          | ★ 12                | 60PAR38/CAP/DAY/SP9   | 120   | 15      | Spot         | C, CC-8          | 2500                | 725    | 13500 | 9          | 5 5/16   |
|       |         |             | 15251          | ★ 12                | 60PAR38/CAP/DAY/FL30  | 120   | 15      | Flood        | C, CC-8          | 2500                | 725    | 2150  | 30         | 5 5/16   |
| 75    | PAR30LN | E26 Med     | 15228          | ★ 12,15             | 75PAR30LN/DAY/WFL/RP  | 120   | 6       | Wide Flood   | C, CC-8          | 2000                | 1000   | 1000  | 50         | 4 5/8    |
|       | PAR38   | E26 Med Skt | 15230          | ★ 12                | 75PAR38/DAY/FL/RP     | 120   | 6       | Flood        | C, CC-8          | 2000                | 960    | 2800  | 30         | 5 5/16   |

## CAPSYLITE® PAR14

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|------|------------|----------|
| 35    | PAR14 | E26 Med | 14553          | 12,16               | 35PAR14/CAP/FL50/RP   | 120   | 6       | Flood     | C, CC-8          | 2000                | 300    | 85   | 50         | 2 1/8    |

## DESIGNER 16® - CAPSYLITE® PAR16

| Watts  | Bulb  | Base    | Product Number   | Symbols & Footnotes | Ordering Abbreviation    | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |  |  |
|--|-------|---------|--|---------------------|--------------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|--|--|
| 50   | PAR16 | GU10    | 59020  | ★                   | 50PAR16/HAL/GU10/FL/CLAM | 120   | 6       | Flood        | C, CC-2V         | 1000                | 400    | 640  | 40         | 2 1/4    |  |  |
|  |       |         | 59024  | ★                   | 50PAR16/CAP/GU10/FL40    | 120   | 10      | Flood        | C, CC-2V         | 1000                | 400    | 640  | 40         | 2 1/4    |  |  |
| 60   | PAR16 | E26 Med | 59037  | 12,16               | 60PAR16/HAL/NSP10/RP     | 120   | 6       | Narrow Spot  | C, CC-8          | 2000                | 650    | 5000 | 10         | 2 7/8    |  |  |
|  |       |         | 59032  | 12,16               | 60PAR16/CAP/NSP10        | 120   | 15      | Narrow Spot  | C, CC-8          | 2000                | 650    | 5000 | 10         | 2 7/8    |  |  |
|  |       |         | 59040  | 1,12,16             | 60PAR16/CAP/NSP10        | 130   | 15      | Narrow Spot  | C, CC-8          | 2000                | 650    | 5000 | 10         | 2 7/8    |  |  |
|  |       |         | <i>@ 120 volts, approximate 53 watts, 495 lumens, 4000 hours</i> |                     |                          |       |         |              |                  |                     |        |      |            |          |  |  |
|  |       |         | 59031  | 12,16               | 60PAR16/HAL/NFL30/RP     | 120   | 6       | Narrow Flood | C, CC-8          | 2000                | 650    | 1300 | 30         | 2 7/8    |  |  |
|  |       |         | 59030  | 12,16               | 60PAR16/CAP/NFL30        | 120   | 15      | Narrow Flood | C, CC-8          | 2000                | 650    | 1300 | 30         | 2 7/8    |  |  |
| 75   | PAR16 | E26 Med | 59038  | 1,12,16             | 60PAR16/CAP/NFL30        | 130   | 15      | Narrow Flood | C, CC-8          | 2000                | 650    | 1300 | 30         | 2 7/8    |  |  |
|  |       |         | <i>@ 120 volts, approximate 53 watts, 495 lumens, 4000 hours</i> |                     |                          |       |         |              |                  |                     |        |      |            |          |  |  |
|  |       |         | 59035  | 12,16               | 75PAR16/HAL/NSP10/RP     | 120   | 6       | Narrow Spot  | C, CC-8          | 2000                | 900    | 7500 | 10         | 2 7/8    |  |  |
|  |       |         | 59036  | 12,16               | 75PAR16/CAP/NSP10        | 120   | 15      | Narrow Spot  | C, CC-8          | 2000                | 900    | 7500 | 10         | 2 7/8    |  |  |
|  |       |         | 59044  | 1,12,16             | 75PAR16/CAP/NSP10        | 130   | 15      | Narrow Spot  | C, CC-8          | 2000                | 900    | 7500 | 10         | 2 7/8    |  |  |
| <i>@ 120 volts, approximate 66 watts, 685 lumens, 4000 hours</i> |       |         |  |                     |                          |       |         |              |                  |                     |        |      |            |          |  |  |
|  | PAR16 | E26 Med | 59033  | 12,16               | 75PAR16/HAL/NFL30/RP     | 120   | 6       | Narrow Flood | C, CC-8          | 2000                | 900    | 1900 | 30         | 2 7/8    |  |  |
|  |       |         | 59034  | 12,16               | 75PAR16/CAP/NFL30        | 120   | 15      | Narrow Flood | C, CC-8          | 2000                | 900    | 1900 | 30         | 2 7/8    |  |  |
|  |       |         | 59042  | 1,12,16             | 75PAR16/CAP/NFL30        | 130   | 15      | Narrow Flood | C, CC-8          | 2000                | 900    | 1900 | 30         | 2 7/8    |  |  |
| <i>@ 120 volts, approximate 66 watts, 685 lumens, 4000 hours</i> |       |         |  |                     |                          |       |         |              |                  |                     |        |      |            |          |  |  |

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PAR20



PAR30

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## CAPSYLITE® PAR

## CAPSYLITE IR® PAR20

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type   | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|------|------------|----------|
| 40    | PAR20 | E26 Med | 14164          | ★<br>4,11,12        | 40PAR20/CAP/IR/NSP10  | 120   | 15      | Narrow Spot | C, CC-8          | 4000                | 600    | 5000 | 10         | 3 1/4    |
|       |       |         | 14166          | ★<br>4,11,12        | 40PAR20/CAP/IR/NFL30  | 120   | 15      | Narrow Spot | C, CC-8          | 4000                | 600    | 1300 | 30         | 3 1/4    |
|       |       |         | 14130          | ★<br>4,11,12        | 40PAR20/CAP/IR/WFL40  | 120   | 15      | Wide Flood  | C, CC-8          | 4000                | 600    | 1000 | 40         | 3 1/2    |

## CAPSYLITE® PAR20

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation  | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|--|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 35    | PAR20 | E26 Med | 14467          | ★<br>11,12          | 35PAR20/CAP/SPL/NSP10  | 120   | 15      | Narrow Spot  | C, CC-8          | 2500                | 360    | 3000 | 10         | 3 1/4    |
|       |       |         | 14460          | ★<br>1,11,12        | 35PAR20/CAP/SPL/NSP10  | 130   | 15      | Narrow Spot  | C, CC-8          | 2500                | 360    | 3000 | 10         | 3 1/4    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 31 watts, 275 lumens, 5000 hours</i> |       |         |              |                  |                     |        |      |            |          |
|       |       |         | 14464          | ★<br>11,12          | 35PAR20/CAP/SPL/NFL30  | 120   | 15      | Narrow Flood | C, CC-8          | 2500                | 360    | 800  | 30         | 3 1/4    |
|       |       |         | 14459          | ★<br>1,11,12        | 35PAR20/CAP/SPL/NFL30  | 130   | 15      | Narrow Flood | C, CC-8          | 2500                | 360    | 800  | 30         | 3 1/4    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 31 watts, 275 lumens, 5000 hours</i> |       |         |              |                  |                     |        |      |            |          |
|       |       |         | 14506          | ★<br>11,12          | 35PAR20/CAP/SPL/WFL40  | 120   | 15      | Wide Flood   | C, CC-8          | 2500                | 360    | 500  | 40         | 3 1/8    |
|       |       |         | 14461          | ★<br>1,11,12        | 35PAR20/CAP/SPL/WFL40  | 130   | 15      | Wide Flood   | C, CC-8          | 2500                | 360    | 500  | 40         | 3 1/8    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 31 watts, 275 lumens, 5000 hours</i> |       |         |              |                  |                     |        |      |            |          |
| 50    | PAR20 | E26 Med | 14500          | ★<br>11,12          | 50PAR20/HAL/SPL/NSP10  | 120   | 15      | Narrow Spot  | C, CC-8          | 2500                | 550    | 4600 | 10         | 3 1/4    |
|       |       |         | 14528          | ★<br>1,11,12        | 50PAR20/CAP/SPL/NSP10  | 130   | 15      | Narrow Spot  | C, CC-8          | 2500                | 550    | 4600 | 10         | 3 1/4    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 44 watts, 420 lumens, 5000 hours</i> |       |         |              |                  |                     |        |      |            |          |
|       |       |         | 14173          | ★<br>11,12          | 50PAR20/HAL/SPL/NFL30/RP   | 120   | 6       | Narrow Flood | C, CC-8          | 2500                | 550    | 1200 | 30         | 3 1/4    |
|       |       |         | 14502          | ★<br>11,12          | 50PAR20/HAL/SPL/NFL30  | 120   | 15      | Narrow Flood | C, CC-8          | 2500                | 550    | 1200 | 30         | 3 1/4    |
|       |       |         | 14529          | ★<br>1,11,12        | 50PAR20/CAP/SPL/NFL30  | 130   | 15      | Narrow Flood | C, CC-8          | 2500                | 550    | 1200 | 30         | 3 1/4    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 44 watts, 420 lumens, 5000 hours</i> |       |         |              |                  |                     |        |      |            |          |
|       |       |         | 14700          | ★<br>11,12          | 50PAR20/CAP/SPL/WFL40  | 120   | 15      | Wide Flood   | C, CC-8          | 2500                | 550    | 900  | 40         | 3 1/8    |

## CAPSYLITE IR® PAR30

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes | Ordering Abbreviation   | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|-------|-------|---------|----------------|---------------------|---|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|
| 40    | PAR30 | E26 Med | 13968          | ★<br>4,11,12        | 40PAR30/CAP/IR/NSP9   | 120   | 15      | Narrow Spot  | C, CC-8          | 4000                | 680    | 8800  | 9          | 3 5/8    |
|       |       |         | 13969          | ★<br>4,11,12        | 40PAR30/CAP/IR/NFL25  | 120   | 15      | Narrow Flood | C, CC-8          | 4000                | 680    | 2300  | 25         | 3 5/8    |
|       |       |         | 13970          | ★<br>4,11,12        | 40PAR30/CAP/IR/WFL40  | 120   | 15      | Flood        | C, CC-8          | 4000                | 680    | 1300  | 40         | 3 5/8    |
| 50    | PAR30 | E26 Med | 14355          | ★<br>4,11,12        | 50PAR30/CAP/IR/NSP9   | 120   | 15      | Narrow Spot  | C, CC-8          | 3000                | 900    | 13000 | 9          | 3 5/8    |
|       |       |         | 14109          | ★<br>1,4,11,12      | 50PAR30/CAP/IR/NSP9   | 130   | 15      | Narrow Spot  | C, CC-8          | 3000                | 900    | 13000 | 9          | 3 5/8    |
|       |       |         |                |                     | <i>@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.</i> |       |         |              |                  |                     |        |       |            |          |



## CAPSYLITE® PAR

| Watts | Bulb  | Base    | Product Number  | Symbols & Footnotes                       | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|---------|---|---|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 50    | PAR30 | E26 Med | 14354   | ★ [Symbol] [Symbol] [Symbol]<br>4,11,12   | 50PAR30/CAP/IR/NFL25  | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 900    | 2900 | 25         | 3 5/8    |
|       |       |         | 14132   | ★ [Symbol] [Symbol] [Symbol]<br>1,4,11,12 | 50PAR30/CAP/IR/NFL25  | 130   | 15      | Narrow Flood | C, CC-8          | 3000                | 900    | 2900 | 25         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.</i> |   |                       |       |         |              |                  |                     |        |      |            |          |
|       |       |         | 14714   | ★ [Symbol] [Symbol] [Symbol]<br>4,11,12   | 50PAR30/CAP/IR/FL40   | 120   | 15      | Flood        | C, CC-8          | 3000                | 900    | 1400 | 40         | 3 5/8    |
|       |       |         | 14131   | ★ [Symbol] [Symbol] [Symbol]<br>1,4,11,12 | 50PAR30/CAP/IR/FL40   | 130   | 15      | Flood        | C, CC-8          | 3000                | 900    | 1400 | 40         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 44 watts, 690 lumens, 6000 hours.</i> |   |                       |       |         |              |                  |                     |        |      |            |          |

## CAPSYLITE® PAR30

| Watts | Bulb  | Base    | Product Number  | Symbols & Footnotes                     | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|-------|-------|---------|---|---|-----------------------|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|
| 50    | PAR30 | E26 Med | 14526   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 50PAR30/CAP/SPL/NSP9  | 120   | 15      | Narrow Spot  | C, CC-8          | 2500                | 660    | 8800  | 9          | 3 5/8    |
|       |       |         | 14530   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 50PAR30/CAP/SPL/NSP9  | 130   | 15      | Narrow Spot  | C, CC-8          | 2500                | 660    | 8800  | 9          | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |
|       |       |         | 14527   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 50PAR30/CAP/SPL/NFL25 | 120   | 15      | Narrow Flood | C, CC-8          | 2500                | 660    | 2300  | 25         | 3 5/8    |
|       |       |         | 14531   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 50PAR30/CAP/SPL/NFL25 | 130   | 15      | Narrow Flood | C, CC-8          | 2500                | 660    | 2300  | 25         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |
|       |       |         | 14710   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 50PAR30/HAL/SPL/FL40  | 120   | 15      | Flood        | C, CC-8          | 2500                | 660    | 1300  | 40         | 3 5/8    |
|       |       |         | 14533   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 50PAR30/CAP/SPL/FL40  | 130   | 15      | Flood        | C, CC-8          | 2500                | 660    | 1300  | 40         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |
| 60    | PAR30 | E26 Med | 14332   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 60PAR30/CAP/SPL/NSP9  | 120   | 15      | Narrow Spot  | C, CC-8          | 3000                | 860    | 12000 | 9          | 3 5/8    |
|       |       |         | 14333   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 60PAR30/CAP/SPL/NFL25 | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 860    | 2775  | 25         | 3 5/8    |
|       |       |         | 14090   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 60PAR30/CAP/SPL/NFL25 | 130   | 15      | Narrow Flood | C, CC-8          | 3000                | 860    | 2775  | 25         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 53 watts, 660 lumens, 6000 hours.</i> |   |                       |       |         |              |                  |                     |        |       |            |          |
|       |       |         | 14084   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 60PAR30/CAP/SPL/FL40  | 130   | 15      | Flood        | C, CC-8          | 3000                | 860    | 1550  | 40         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 53 watts, 660 lumens, 6000 hours.</i> |   |                       |       |         |              |                  |                     |        |       |            |          |
| 75    | PAR30 | E26 Med | 14604   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 75PAR30/CAP/SPL/NSP9  | 120   | 15      | Narrow Spot  | C, CC-8          | 2500                | 1130   | 15400 | 9          | 3 5/8    |
|       |       |         | 14628   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 75PAR30/CAP/SPL/NSP9  | 130   | 15      | Narrow Spot  | C, CC-8          | 2500                | 1130   | 15400 | 9          | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |
|       |       |         | 14603   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 75PAR30/CAP/SPL/NFL25 | 120   | 15      | Narrow Flood | C, CC-8          | 2500                | 1130   | 4000  | 25         | 3 5/8    |
|       |       |         | 14627   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 75PAR30/CAP/SPL/NFL25 | 130   | 15      | Narrow Flood | C, CC-8          | 2500                | 1130   | 4000  | 25         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |
|       |       |         | 14606   | ★ [Symbol] [Symbol] [Symbol]<br>11,12   | 75PAR30/CAP/SPL/FL40  | 120   | 15      | Flood        | C, CC-8          | 2500                | 1130   | 2100  | 40         | 3 5/8    |
|       |       |         | 14629   | ★ [Symbol] [Symbol] [Symbol]<br>1,11,12 | 75PAR30/CAP/SPL/FL40  | 130   | 15      | Flood        | C, CC-8          | 2500                | 1130   | 2100  | 40         | 3 5/8    |
|       |       |         | <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i>  |   |                       |       |         |              |                  |                     |        |       |            |          |

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## CAPSYLITE® PAR CAPSYLITE® PAR30 LONG NECK

| Watts  | Bulb  | Base                   | Product Number   | Symbols & Footnotes                                    | Ordering Abbreviation   | Volts   | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |  |  |  |
|--|---|------------------------|--|--|-------------------------|---------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|--|--|--|
| 35   | PAR30LN   | E26 Med                | 14759  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 35PAR30LNCAP/SPL/NSP9   | 120     | 15      | Narrow Spot  | C, CC-8          | 2500                | 450    | 5700  | 9          | 4 5/8    |  |  |  |
|  |   |                        | 14764  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 35PAR30LNCAP/SPL/MFL50  | 120     | 15      | Wide Flood   | C, CC-8          | 2500                | 450    | 450   | 50         | 4 5/8    |  |  |  |
| 50   | PAR30LN   | E26 Med                | 14509  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15,19   | 50PAR30LNCAP/SPL/NSP9   | 120     | 15      | Narrow Spot  | C, CC-8          | 2500                | 660    | 8800  | 9          | 4 5/8    |  |  |  |
|  |   |                        | 14482  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15,19 | 50PAR30LNCAP/SPL/NSP9   | 130     | 15      | Narrow Spot  | C, CC-8          | 2500                | 660    | 8800  | 9          | 4 5/8    |  |  |  |
|  |   |                        | <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i> |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |
|  |   |                        | 14822  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15,19   | 50PAR30LNCAP/SPL/NFL/FP | 120     | 6       | Narrow Flood | C, CC-8          | 2500                | 660    | 2300  | 25         | 4 5/8    |  |  |  |
|  |   |                        | 14520  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15,19   | 50PAR30LNCAP/SPL/NFL25  | 120     | 15      | Narrow Flood | C, CC-8          | 2500                | 660    | 2300  | 25         | 4 5/8    |  |  |  |
|  |   |                        | 14478  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15,19 | 50PAR30LNCAP/SPL/NFL25  | 130     | 15      | Narrow Flood | C, CC-8          | 2500                | 660    | 2300  | 25         | 4 5/8    |  |  |  |
|  |   |                        | <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i> |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |
|  |   |                        | 14536  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15,19   | 50PAR30LNCAP/SPL/MFL/FP | 120     | 6       | Wide Flood   | C, CC-8          | 2500                | 660    | 660   | 50         | 4 5/8    |  |  |  |
|  |   |                        | 14537  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15,19   | 50PAR30LNCAP/SPL/MFL50  | 120     | 15      | Wide Flood   | C, CC-8          | 2500                | 660    | 660   | 50         | 4 5/8    |  |  |  |
|  |   |                        | 14486  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15,19 | 50PAR30LNCAP/SPL/MFL50  | 130     | 15      | Wide Flood   | C, CC-8          | 2500                | 660    | 660   | 50         | 4 5/8    |  |  |  |
| <i>@ 120 volts, approximate 44 watts, 500 lumens, 5000 hours</i> |   |                        |  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |
| 75   | PAR30LN   | E26 Med                | 14786  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 75PAR30LNCAP/SPL/NSP9   | 120     | 15      | Narrow Spot  | C, CC-8          | 2500                | 1130   | 15400 | 9          | 4 5/8    |  |  |  |
|  |   |                        | 14777  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15    | 75PAR30LNCAP/SPL/NSP9   | 130     | 15      | Narrow Spot  | C, CC-8          | 2500                | 1130   | 15400 | 9          | 4 5/8    |  |  |  |
|  |   |                        | <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i> |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |
|  |   |                        | 14824  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 75PAR30LNCAP/SPL/NFL/FP | 120     | 6       | Narrow Flood | C, CC-8          | 2500                | 1130   | 4000  | 25         | 4 5/8    |  |  |  |
|  |   |                        | 14769  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 75PAR30LNCAP/SPL/NFL25  | 120     | 15      | Narrow Flood | C, CC-8          | 2500                | 1130   | 4000  | 25         | 4 5/8    |  |  |  |
|  |   |                        | 14778  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15    | 75PAR30LNCAP/SPL/NFL25  | 130     | 15      | Narrow Flood | C, CC-8          | 2500                | 1130   | 4000  | 25         | 4 5/8    |  |  |  |
|  |   |                        | <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i> |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |
|  |   |                        | 14823  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15      | 75PAR30LNCAP/SPL/MFL/FP | 120     | 6       | Wide Flood   | C, CC-8          | 2500                | 1130   | 1100  | 50         | 4 5/8    |  |  |  |
| 14768  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,15   | 75PAR30LNCAP/SPL/MFL50 | 120  | 15   | Wide Flood              | C, CC-8 | 2500    | 1130         | 1100             | 50                  | 4 5/8  |       |            |          |  |  |  |
| 14785  | ★ [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,15 | 75PAR30LNCAP/SPL/MFL50 | 130  | 15   | Wide Flood              | C, CC-8 | 2500    | 1130         | 1100             | 50                  | 4 5/8  |       |            |          |  |  |  |
| <i>@ 120 volts, approximate 66 watts, 860 lumens, 5000 hours</i> |   |                        |  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |  |

## CAPSYLITE® PAR36

| Watts | Bulb  | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type        | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |
|-------|-------|------|----------------|---------------------|-----------------------|-------|---------|------------------|------------------|---------------------|--------|-------|------------|----------|
| 36    | PAR36 |      | 55100          | ★ 15                | 36PAR36/CAP/NSP5      | 12    | 12      | Very Narrow Spot | C, C-8           | 4000                | 500    | 17000 | 5          | 2 3/4    |
|       |       |      | 55090          | ★ 15                | 36PAR36/CAP/NSP13     | 12    | 12      | Narrow Spot      | C, C-8           | 4000                | 500    | 3500  | 13         | 2 3/4    |
|       |       |      | 55091          | ★ 15                | 36PAR36/CAP/MFL32     | 12    | 12      | Wide Flood       | C, C-8           | 4000                | 500    | 1000  | 32         | 2 3/4    |
| 50    | PAR36 |      | 55118          | ★ 15                | 50PAR36/CAP/NSP6      | 12    | 12      | Narrow Spot      | C, C-8           | 4000                | 700    | 25000 | 6          | 2 3/4    |



PAR38

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## CAPSYLITE® PAR CAPSYLITE IR® PAR38

| Watts | Bulb  | Base        | Product Number  | Symbols & Footnotes               | Ordering Abbreviation  | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |  |  |
|-------|-------|-------------|---|-----------------------------------|------------------------|-------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|--|--|
| 50    | PAR38 | E26 Med Skt | 14136   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 50PAR38/CAP/IR/SP9     | 120   | 15      | Spot         | C, CC-8          | 3000                | 850    | 14000 | 9          | 5 5/16   |  |  |
|       |       |             | 14124   | ★ [E] [E] [E] [E]<br>1,4,11,12,13 | 50PAR38/CAP/IR/SP9     | 130   | 15      | Spot         | C, CC-8          | 3000                | 850    | 14000 | 9          | 5 5/16   |  |  |
|       |       |             | <i>@ 120 volts, approximate 44 watts, 650 lumens, 6000 hours.</i> |                                   |                        |       |         |              |                  |                     |        |       |            |          |  |  |
|       |       |             | 14138   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 50PAR38/CAP/IR/NFL25   | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 850    | 3000  | 25         | 5 5/16   |  |  |
| 55    | PAR38 | E26 Med Skt | 14126   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 55PAR38/CAP/IR/XP/SP9  | 120   | 15      | Spot         | C, CC-8          | 6000                | 800    | 14000 | 9          | 5 5/16   |  |  |
|       |       |             | 14127   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 55PAR38/CAP/IR/XP/FL30 | 120   | 15      | Flood        | C, CC-8          | 6000                | 800    | 2500  | 30         | 5 5/16   |  |  |
| 60    | PAR38 | E26 Med Skt | 14485   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 60PAR38/CAP/IR/SP9     | 120   | 15      | Spot         | C, CC-8          | 3000                | 1110   | 20000 | 9          | 5 5/16   |  |  |
|       |       |             | 14716   | ★ [E] [E] [E] [E]<br>1,4,11,12,13 | 60PAR38/CAP/IR/SP9     | 130   | 15      | Spot         | C, CC-8          | 3000                | 1110   | 20000 | 9          | 5 5/16   |  |  |
|       |       |             | <i>@ 120 volts, approximate 53 watts, 845 lumens, 6000 hours.</i> |                                   |                        |       |         |              |                  |                     |        |       |            |          |  |  |
|       |       |             | 14360   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 60PAR38/CAP/IR/WSP12   | 120   | 15      | Wide Spot    | C, CC-8          | 3000                | 1110   | 12000 | 12         | 5 5/16   |  |  |
|       |       |             | 14442   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 60PAR38/CAP/IR/NFL25   | 120   | 15      | Narrow Flood | C, CC-8          | 3000                | 1110   | 5000  | 25         | 5 5/16   |  |  |
|       |       |             | 14466   | ★ [E] [E] [E] [E]<br>4,11,12,13   | 60PAR38/CAP/IR/FL30    | 120   | 15      | Flood        | C, CC-8          | 3000                | 1110   | 3600  | 30         | 5 5/16   |  |  |
| 80    | PAR38 | E26 Med Skt | 14347   | ★ [E] [E] [E]<br>4,12,13          | 80PAR38/CAP/IR/SP10    | 120   | 12      | Spot         | C, CC-8          | 3000                | 1500   | 25000 | 10         | 5 5/16   |  |  |
|       |       |             | 14327   | ★ [E] [E] [E]<br>4,12,13          | 80PAR38/CAP/IR/FL25    | 120   | 12      | Flood        | C, CC-8          | 3000                | 1500   | 5500  | 25         | 5 5/16   |  |  |
| 100   | PAR38 | E26 Med Skt | 14324   | ★ [E] [E] [E]<br>4,12,13          | 100PAR38/CAP/IR/SP10   | 120   | 12      | Spot         | C, CC-8          | 3000                | 2070   | 29000 | 10         | 5 5/16   |  |  |
|       |       |             | 14319   | ★ [E] [E] [E]<br>4,12,13          | 100PAR38/CAP/IR/NFL25  | 120   | 12      | Narrow Flood | C, CC-8          | 3000                | 2070   | 6300  | 25         | 5 5/16   |  |  |
|       |       |             | 14311   | ★ [E] [E] [E]<br>4,12,13          | 100PAR38/CAP/IR/FL40   | 120   | 12      | Flood        | C, CC-8          | 3000                | 2070   | 3400  | 40         | 5 5/16   |  |  |

## CAPSYLITE® PAR38

| Watts | Bulb  | Base        | Product Number   | Symbols & Footnotes         | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |  |  |
|-------|-------|-------------|--|-----------------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|-------|------------|----------|--|--|
| 45    | PAR38 | E26 Med Skt | 14590  | ★ [E] [E] [E]<br>11,12,13   | 45PAR38/CAP/SPL/SP9   | 120   | 15      | Spot      | C, CC-8          | 2500                | 560    | 10000 | 9          | 5 5/16   |  |  |
|       |       |             | 14593  | ★ [E] [E] [E]<br>1,11,12,13 | 45PAR38/CAP/SPL/SP9   | 130   | 15      | Spot      | C, CC-8          | 2500                | 560    | 10000 | 9          | 5 5/16   |  |  |
|       |       |             | <i>@ 120 volts, approximate 40 watts, 425 lumens, 5000 hours</i> |                             |                       |       |         |           |                  |                     |        |       |            |          |  |  |
|       |       |             | 14589  | ★ [E] [E] [E]<br>11,12,13   | 45PAR38/CAP/SPL/WSP12 | 120   | 15      | Wide Spot | C, CC-8          | 2500                | 560    | 6300  | 12         | 5 5/16   |  |  |
| 45    | PAR38 | E26 Med Skt | 14592  | ★ [E] [E] [E]<br>1,11,12,13 | 45PAR38/CAP/SPL/WSP12 | 130   | 15      | Wide Spot | C, CC-8          | 2500                | 560    | 6300  | 12         | 5 5/16   |  |  |
|       |       |             | <i>@ 120 volts, approximate 40 watts, 425 lumens, 5000 hours</i> |                             |                       |       |         |           |                  |                     |        |       |            |          |  |  |



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## CAPSYLITE® PAR

| Watts  | Bulb   | Base                  | Product Number  | Symbols & Footnotes                              | Ordering Abbreviation   | Volts   | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |  |  |
|--|--|-----------------------|---|--|-------------------------|---------|---------|--------------|------------------|---------------------|--------|-------|------------|----------|--|--|
| 45   | PAR38  | E26 Med Skt           | 14588   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 45PAR38/CAP/SPL/FL30    | 120     | 15      | Flood        | C, CC-8          | 2500                | 560    | 1500  | 30         | 5 5/16   |  |  |
|  |  |                       | 14591   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 45PAR38/CAP/SPL/FL30    | 130     | 15      | Flood        | C, CC-8          | 2500                | 560    | 1500  | 30         | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 40 watts, 425 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 45   | PAR38  | E26 Med Skt           | 14010   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 45PAR38/CAP/SPL/MFL50   | 130     | 15      | Wide Flood   | C, CC-8          | 2500                | 560    | 700   | 50         | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 40 watts, 425 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
|  |  |                       |   |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 50   | PAR38  | E26 Med Skt           | 15521   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 50PAR38/HAL/SPL/SP9/RP  | 120     | 6       | Spot         | C, CC-8          | 2500                | 650    | 10500 | 9          | 5 5/16   |  |  |
|  |  |                       | 15520   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 50PAR38/HAL/SPL/FL30/RP | 120     | 6       | Flood        | C, CC-8          | 2500                | 650    | 1850  | 30         | 5 5/16   |  |  |
| 60   | PAR38  | E26 Med Skt           | 14469   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 60PAR38/CAP/SPL/SP9     | 120     | 15      | Spot         | C, CC-8          | 3000                | 850    | 16000 | 9          | 5 5/16   |  |  |
|  |  |                       | 14449   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 60PAR38/CAP/SPL/SP9     | 130     | 15      | Spot         | C, CC-8          | 3000                | 850    | 16000 | 9          | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 53 watts, 645 lumens, 6000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
|  |  |                       | 14423   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 60PAR38/CAP/SPL/WSP12   | 120     | 15      | Wide Spot    | C, CC-8          | 3000                | 850    | 10500 | 12         | 5 5/16   |  |  |
|  |  |                       | 14472   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 12         | 60PAR38/CAP/SPL/NFL25   | 120     | 15      | Narrow Flood | C, CC-8          | 3000                | 850    | 3700  | 25         | 5 5/16   |  |  |
|  |  |                       | 14468   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 60PAR38/CAP/SPL/FL30    | 120     | 15      | Flood        | C, CC-8          | 3000                | 850    | 2500  | 30         | 5 5/16   |  |  |
|  |  |                       | 14448   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 60PAR38/CAP/SPL/FL30    | 130     | 15      | Flood        | C, CC-8          | 3000                | 850    | 2500  | 30         | 5 5/16   |  |  |
| <i>@ 120 volts, approximate 53 watts, 645 lumens, 6000 hours</i> |  |                       |   |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 75   | PAR38  | E26 Med Skt           | 14854   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 75PAR38/HAL/SPL/SP/RP   | 120     | 6       | Spot         | C, CC-8          | 2500                | 1060   | 19200 | 9          | 5 5/16   |  |  |
|  |  |                       | 14514   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 75PAR38/CAP/SPL/SP9     | 120     | 15      | Spot         | C, CC-8          | 2500                | 1060   | 19200 | 9          | 5 5/16   |  |  |
|  |  |                       | 14516   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 75PAR38/CAP/SPL/SP9     | 130     | 15      | Spot         | C, CC-8          | 2500                | 1060   | 19200 | 9          | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 66 watts, 805 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
|  |  |                       | 14510   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 75PAR38/CAP/SPL/WSP12   | 120     | 15      | Wide Spot    | C, CC-8          | 2500                | 1060   | 12300 | 12         | 5 5/16   |  |  |
|  |  |                       | 14853   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 75PAR38/HAL/SPL/FL/RP   | 120     | 6       | Flood        | C, CC-8          | 2500                | 1060   | 3150  | 30         | 5 5/16   |  |  |
|  |  |                       | 14513   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 75PAR38/CAP/SPL/FL30    | 120     | 15      | Flood        | C, CC-8          | 2500                | 1060   | 3150  | 30         | 5 5/16   |  |  |
|  |  |                       | 14446   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 75PAR38/CAP/SPL/FL/CVP  | 130     | 6       | Flood        | C, CC-8          | 2500                | 1060   | 3150  | 30         | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 66 watts, 805 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 75   | PAR38  | E26 Med Skt           | 14515   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 75PAR38/CAP/SPL/FL30    | 130     | 15      | Flood        | C, CC-8          | 2500                | 1060   | 3150  | 30         | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 66 watts, 805 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
|  |  |                       | 14517   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 75PAR38/CAP/SPL/MFL50   | 130     | 15      | Wide Flood   | C, CC-8          | 2500                | 1060   | 1300  | 50         | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 66 watts, 805 lumens, 5000 hours</i>  |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
|  |  |                       |   |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 90   | PAR38  | E26 Med Skt           | 14586   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13   | 90PAR38/CAP/SPL/SP9     | 120     | 15      | Spot         | C, CC-8          | 2500                | 1310   | 19000 | 9          | 5 5/16   |  |  |
|  |  |                       | 14587   | ★ [Symbol] [Symbol] [Symbol] [Symbol] 1,11,12,13 | 90PAR38/CAP/SPL/SP9     | 130     | 15      | Spot         | C, CC-8          | 2500                | 1310   | 19000 | 9          | 5 5/16   |  |  |
|  |  |                       | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i> |  |                         |         |         |              |                  |                     |        |       |            |          |  |  |
| 14580  | ★ [Symbol] [Symbol] [Symbol] [Symbol] 11,12,13 | 90PAR38/CAP/SPL/WSP12 | 120   | 15   | Wide Spot               | C, CC-8 | 2500    | 1310         | 14300            | 12                  | 5 5/16 |       |            |          |  |  |



## CAPSYLITE® PAR

| Watts  | Bulb   | Base                   | Product Number   | Symbols & Footnotes   | Ordering Abbreviation       | Volts   | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life (hrs) | Lumens | CBCP  | Beam Angle | MOL (in) |  |  |  |
|--|--|------------------------|--|---|-----------------------------|---------|---------|--------------|------------------|----------------------|--------|-------|------------|----------|--|--|--|
| 90   | PAR38  | E26 Med Skt            | 14578  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 90PAR38/CAP/SPL/WSP12       | 130     | 15      | Wide Spot    | C, CC-8          | 2500                 | 1310   | 14300 | 12         | 5 5/16   |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i>  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
|  |  |                        | 14601  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 90PAR38/CAP/SPL/NFL25       | 130     | 15      | Narrow Flood | C, CC-8          | 2500                 | 1310   | 4700  | 25         | 5 5/16   |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i>  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
|  |  |                        | 14579  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 90PAR38/CAP/SPL/FL30        | 120     | 15      | Flood        | C, CC-8          | 2500                 | 1310   | 3500  | 30         | 5 5/16   |  |  |  |
|  |  |                        | 14647  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 90PAR38/CAP/SPL/FL/CVP      | 130     | 6       | Flood        | C, CC-8          | 2500                 | 1310   | 3500  | 30         | 5 5/16   |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i>  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
|  |  |                        | 14577  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 90PAR38/CAP/SPL/FL30        | 130     | 15      | Flood        | C, CC-8          | 2500                 | 1310   | 3500  | 30         | 5 5/16   |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i>  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours</i>  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
| Med Side Prong   |  |                        | 14630  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 90PAR38/CAP/SPL/3WSP12      | 120     | 15      | Wide Spot    | C, CC-8          | 2500                 | 1310   | 14300 | 12         | 5 5/16   |  |  |  |
|  |  |                        | 14632  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 90PAR38/CAP/SPL/3FL30       | 120     | 15      | Flood        | C, CC-8          | 2500                 | 1310   | 3500  | 30         | 5 5/16   |  |  |  |
| 100  | PAR38  | E26 Med Skt            | 15522  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 100PAR38/HAL/SPL/SP9/RP     | 120     | 6       | Spot         | C, CC-8          | 2500                 | 1500   | 22000 | 9          | 5 5/16   |  |  |  |
|  |  |                        | 15585  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 100PAR38/HAL/SPL/FL30/RP    | 120     | 6       | Flood        | C, CC-8          | 2500                 | 1500   | 4000  | 30         | 5 5/16   |  |  |  |
| 106  | PAR38  | E26 Med Skt            | 15003  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 106PAR38/CAP/SPL/SP10       | 120     | 15      | Spot         | C, CC-8          | 2000                 | 1800   | 22500 | 10         | 5 5/16   |  |  |  |
|  |  |                        | 15001  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 106PAR38/CAP/SPL/WFL55      | 120     | 15      | Wide Flood   | C, CC-8          | 2000                 | 1800   | 2000  | 55         | 5 5/16   |  |  |  |
| 120  | PAR38  | E26 Med Skt            | 14873  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 120PAR38/HAL/SPL/SP/XTRA/RP | 120     | 6       | Spot         | C, CC-8          | 3000                 | 1800   | 22500 | 10         | 5 5/16   |  |  |  |
|  |  |                        | 14856  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 120PAR38/CAP/SPL/SP10       | 120     | 15      | Spot         | C, CC-8          | 3000                 | 1800   | 22500 | 10         | 5 5/16   |  |  |  |
|  |  |                        | 14874  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 120PAR38/CAP/SPL/SP10       | 130     | 15      | Spot         | C, CC-8          | 3000                 | 1800   | 22500 | 10         | 5 5/16   |  |  |  |
|  |  |                        | <i>@ 120 volts, approximate 105 watts, 1370 lumens, 6000 hours</i> |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
|  |  |                        | 14848  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 120PAR38/CAP/SPL/NFL25      | 120     | 15      | Narrow Flood | C, CC-8          | 3000                 | 1800   | 7700  | 25         | 5 5/16   |  |  |  |
|  |  |                        | 14576  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 120PAR38/HAL/SPL/FL/XTRA/RP | 120     | 6       | Flood        | C, CC-8          | 3000                 | 1800   | 4600  | 30         | 5 5/16   |  |  |  |
|  |  |                        | 14855  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13          | 120PAR38/CAP/SPL/FL30       | 120     | 15      | Flood        | C, CC-8          | 3000                 | 1800   | 4600  | 30         | 5 5/16   |  |  |  |
|  |  |                        | 14861  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>1,11,12,13        | 120PAR38/CAP/SPL/FL30       | 130     | 15      | Flood        | C, CC-8          | 3000                 | 1800   | 4600  | 30         | 5 5/16   |  |  |  |
| <i>@ 120 volts, approximate 105 watts, 1370 lumens, 6000 hours</i> |  |                        |  |   |                             |         |         |              |                  |                      |        |       |            |          |  |  |  |
| 14594  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,12,13 | 120PAR38/CAP/SPL/WFL55 | 120  | 15  | Wide Flood                  | C, CC-8 | 3000    | 1800         | 2000             | 55                   | 5 5/16 |       |            |          |  |  |  |
| 250  | PAR38  | E26 Med Skt            | 15526  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,13,15,20,21,22 | 250PAR38/CAP/SPL/SP10       | 120     | 6       | Spot         | C, CC-8          | 4500                 | 3600   | 46500 | 10         | 5 5/16   |  |  |  |
|  |  |                        | 15558  | ★ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]<br>11,13,15,20,21,22 | 250PAR38/CAP/SPL/FL30       | 120     | 6       | Flood        | C, CC-8          | 4500                 | 3600   | 9000  | 30         | 5 5/16   |  |  |  |

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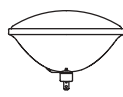
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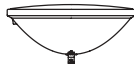
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### CAPSYLITE® PAR CAPSYLITE COOL LUX CAPSYLITE Cool Lux PAR30

| Watts | Bulb  | Base    | Product Number | Symbols & Footnotes        | Ordering Abbreviation  | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in)                       |
|-------|-------|---------|----------------|----------------------------|------------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|--------------------------------|
| 50    | PAR30 | E26 Med | 14916          | ★ [E] [E] [E] [E] 12,13,23 | 50PAR30/CAP/SPL/2NFL25 | 120   | 15      | Narrow Flood | C, CC-8          | 2500                | 600    | 1850 | 25         | 3 <sup>5</sup> / <sub>16</sub> |

### CAPSYLITE Cool Lux PAR38

| Watts | Bulb  | Base        | Product Number | Symbols & Footnotes          | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in)                       |
|-------|-------|-------------|----------------|------------------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|-------|------------|--------------------------------|
| 90    | PAR38 | E26 Med Skt | 14972          | ★ [E] [E] [E] [E] 12,13,23   | 90PAR38/CAP/2SP12     | 120   | 15      | Spot      | C, CC-8          | 2500                | 1260   | 12000 | 12         | 5 <sup>5</sup> / <sub>16</sub> |
|       |       |             | 14971          | ★ [E] [E] [E] [E] 12,13,23   | 90PAR38/CAP/SPL/2FL30 | 120   | 15      | Flood     | C, CC-8          | 2500                | 1260   | 3750  | 30         | 5 <sup>5</sup> / <sub>16</sub> |
|       |       |             | 14973          | ★ [E] [E] [E] [E] 1,12,13,23 | 90PAR38/CAP/SPL/2FL30 | 130   | 15      | Flood     | C, CC-8          | 2500                | 1260   | 3750  | 30         | 5 <sup>5</sup> / <sub>16</sub> |

@ 120 volts, approximate 79 watts, 1000 lumens, 5000 hours

### LARGE PAR

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb  | Base           | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP   | Beam Angle | MOL (in) |
|-------|-------|----------------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|--------|------------|----------|
| 500   | PAR56 | Ext Mog End Pr | 56210          | ★ 2,24,25           | 500PAR56Q/NSP         | 120   | 12      | Narrow Spot  | C, CC-6          | 4000                | 8800   | 78500  | 8x15       | 5        |
|       |       |                | 56211          | ★ 2,24,25           | 500PAR56Q/MFL         | 120   | 12      | Medium Flood | C, CC-6          | 4000                | 8800   | 40000  | 11x30      | 5        |
|       |       |                | 56212          | ★ 2,24,25           | 500PAR56Q/WFL         | 120   | 12      | Wide Flood   | C, CC-6          | 4000                | 8800   | 19500  | 20x45      | 5        |
| 1000  | PAR64 | Ext Mog End Pr | 56206          | ★ 2,24,25           | 1000PAR64Q/NSP        | 120   | 6       | Narrow Spot  | C, CC-6          | 4000                | 19400  | 135000 | 8x20       | 6        |
|       |       |                | 56207          | ★ 2,24,25           | 1000PAR64Q/MFL        | 120   | 6       | Medium Flood | C, CC-6          | 4000                | 19400  | 82000  | 10x30      | 6        |
|       |       |                | 56208          | ★ 2,24,25           | 1000PAR64Q/WFL        | 120   | 6       | Wide Flood   | C, CC-6          | 4000                | 19400  | 23000  | 20x60      | 6        |

### CAPSYLITE® G9

Suitable for use in unshielded fixtures. Consult most recent luminaire standards for your area to determine luminaire requirements.

| Watts | Bulb | Base     | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in)                       | MOL (in)                        |
|-------|------|----------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|--------------------------------|---------------------------------|
| 25    | T4   | G9 Bipin | 57020          | ★ 13,26,27          | 25CAPSYLITE/G9/CL     | 120   | 20      | Clear       | C, CC-2V         | 2000                | 255    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57016          | 13,26,27            | 25CAPSYLITE/G9/CL/BL  | 120   | 10      | Clear       | C, CC-2V         | 2000                | 255    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57021          | ★ 13,26,27          | 25CAPSYLITE/G9/F      | 120   | 20      | Frosted     | C, CC-2V         | 2000                | 230    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57015          | 13,26,27            | 25CAPSYLITE/G9/F/BL   | 120   | 10      | Frosted     | C, CC-2V         | 2000                | 230    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
| 40    | T4   | G9 Bipin | 57022          | ★ 13,26,27          | 40CAPSYLITE/G9/CL     | 120   | 20      | Clear       | C, CC-2V         | 2000                | 510    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57018          | 13,26,27            | 40CAPSYLITE/G9/CL/BL  | 120   | 10      | Clear       | C, CC-2V         | 2000                | 510    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57025          | ★ 13,26,27          | 40CAPSYLITE/G9/F      | 120   | 20      | Frosted     | C, CC-2V         | 2000                | 480    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
|       |      |          | 57017          | 13,26,27            | 40CAPSYLITE/G9/F/BL   | 120   | 10      | Frosted     | C, CC-2V         | 2000                | 480    | 7/8                            | 1 <sup>11</sup> / <sub>16</sub> |
| 60    | T4   | G9 Bipin | 57023          | ★ 13,26,27          | 60CAPSYLITE/G9/CL     | 120   | 20      | Clear       | C, CC-2V         | 2000                | 830    | 1 <sup>1</sup> / <sub>16</sub> | 2                               |
|       |      |          | 57014          | 13,26,27            | 60CAPSYLITE/G9/CL/BL  | 120   | 10      | Clear       | C, CC-2V         | 2000                | 830    | 1 <sup>1</sup> / <sub>16</sub> | 2                               |
|       |      |          | 57024          | ★ 13,26,27          | 60CAPSYLITE/G9/F      | 120   | 20      | Frosted     | C, CC-2V         | 2000                | 790    | 1 <sup>1</sup> / <sub>16</sub> | 2                               |
|       |      |          | 57019          | 13,26,27            | 60CAPSYLITE/G9/F/BL   | 120   | 10      | Frosted     | C, CC-2V         | 2000                | 790    | 1 <sup>1</sup> / <sub>16</sub> | 2                               |





T3, T4



T3

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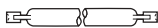
A suitable protective shield, screening technique or both shall be used to protect people and surroundings from possible ultraviolet radiation.

| Watts | Bulb | Base         | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in)                       | MOL (in)                       |
|-------|------|--------------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|--------------------------------|--------------------------------|
| 75    | T3   | E10          | 58876          | C 2,28              | 75Q/CL/MS             | 28    | 12      | Clear       | C, CC-6          | 2000                | 1400   | 1 <sup>7</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>8</sub>  |
|       |      |              | 58884          | C 2,28              | 75Q/CL/MC/RP          | 120   | 6       | Clear       | C, CC-8          | 2000                | 1400   | 1 <sup>7</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
| 100   | T4   | DC Bayonet   | 18858          | C 2,28              | 100Q/CL/DC/64485      | 120   | 10      | Clear       | C, CC-2V         | 2000                | 1600   | 2 <sup>3</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>16</sub> |
|       |      |              | 58755          | C 2,28              | 100Q/CL/DC(ESR)       | 120   | 12      | Clear       | C, CC-2V         | 1000                | 1900   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
|       |      |              | 58757          | C 2,28              | 100Q/DC(ETD)          | 120   | 12      | Frosted     | C, CC-2V         | 1000                | 1750   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
|       |      |              | 58732          | C 2,28              | 100Q/CL/DC            | 130   | 12      | Clear       | C, CC-2V         | 1000                | 1900   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
|       |      | E11 Mini Can | 58817          | C 2,28              | 100Q/CL/MC/RP(ESN)    | 120   | 6       | Clear       | C, CC-8          | 1000                | 1800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
|       |      |              | 58761          | C 2,28              | 100Q/CL/MC(ESN)       | 120   | 12      | Clear       | C, CC-2V         | 1000                | 1800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58760          | C 2,28              | 100Q/CL/MC            | 130   | 12      | Clear       | C, CC-2V         | 1000                | 1800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
| 150   | T4   | DC Bayonet   | 58741          | C 2,28              | 150Q/CL/DC(ETC)       | 120   | 12      | Clear       | C, CC-8          | 2000                | 2800   | 1 <sup>1</sup> / <sub>2</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58742          | C 2,28              | 150Q/CL/DC/1(ESP)     | 120   | 12      | Clear       | C, CC-2V         | 1000                | 2400   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>16</sub> |
|       |      |              | 58748          | C 2,28              | 150Q/CL/DC            | 130   | 12      | Clear       | C, CC-2V         | 1000                | 2800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58737          | C 2,28              | 150Q/DC(ETF)          | 120   | 12      | Frosted     | C, CC-8          | 2000                | 2700   | 1 <sup>1</sup> / <sub>2</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
|       |      | E11 Mini Can | 58731          | C 2,28              | 150Q/CL/MC/RP(ETG)    | 120   | 6       | Clear       | C, CC-8          | 2000                | 2800   | 1 <sup>3</sup> / <sub>8</sub>  | 3                              |
|       |      |              | 58738          | C 2,28              | 150Q/CL/MC(ESL)       | 120   | 12      | Clear       | C, CC-2V         | 1000                | 2800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58735          | C 2,28              | 150Q/CL/MC/2(ETG)     | 120   | 12      | Clear       | C, CC-8          | 2000                | 2800   | 1 <sup>1</sup> / <sub>2</sub>  | 3                              |
|       |      |              | 58733          | C 2,28              | 150Q/CL/MC            | 130   | 12      | Clear       | C, CC-2V         | 1000                | 2800   | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>4</sub>  |
| 250   | T4   | DC Bayonet   | 58720          | C 2,28              | 250Q/CL/DC(ESS)       | 120   | 12      | Clear       | C, CC-8          | 2000                | 5000   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      |              | 58753          | C 2,28              | 250Q/DC(ETB)          | 120   | 12      | Frosted     | C, CC-8          | 2000                | 4850   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      |              | 58754          | C 2,28              | 250Q/DC               | 130   | 12      | Frosted     | C, CC-8          | 2000                | 4850   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      | E11 Mini Can | 58773          | C 2,28              | 250Q/CL/MC/RP(EHT)    | 120   | 6       | Clear       | C, CC-8          | 2000                | 5000   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      |              | 58762          | C 2,28              | 250Q/CL/MC(EHT)       | 120   | 12      | Clear       | C, CC-8          | 2000                | 5000   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      |              | 58764          | C 2,28              | 250Q/CL/MC            | 130   | 12      | Clear       | C, CC-8          | 2000                | 5000   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
|       |      |              | 58763          | C 2,28              | 250Q/MC(ESM)          | 120   | 12      | Frosted     | C, CC-8          | 2000                | 4850   | 1 <sup>5</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub>  |
| 500   | T4   | E11 Mini Can | 58766          | C 2,28              | 500Q/CL/MC(EVR)       | 120   | 12      | Clear       | C, CC-8          | 2000                | 10450  | 2                              | 3 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58756          | C 2,28              | 500Q/CL/MC(EYW)       | 130   | 12      | Clear       | C, CC-8          | 2000                | 10000  | 2                              | 3 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58767          | C 2,28              | 500Q/MC(EYX)          | 120   | 12      | Frosted     | C, CC-8          | 2000                | 10100  | 2                              | 3 <sup>3</sup> / <sub>4</sub>  |
|       |      |              | 58768          | C 2,28              | 500Q/MC(EYV)          | 130   | 12      | Frosted     | C, CC-8          | 2000                | 10000  | 2                              | 3 <sup>3</sup> / <sub>4</sub>  |
| 750   | T4   | E11 Mini Can | 58769          | C 2,28              | 750Q/CL/MC(EYT)       | 120   | 12      | Clear       | C, CC-8          | 500                 | 16500  | 2                              | 3 <sup>3</sup> / <sub>4</sub>  |

**DOUBLE END****DOUBLE END QUARTZ**

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in)                        |
|-------|------|------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|---------------------------------|
| 100   | T3   | RSC  | 58887          | —2,28               | 100T3Q/S/CL/RP        | 120   | 6       | Clear       | C, C-8           | 2000                | 1600   |          | 3 <sup>1</sup> / <sub>8</sub>   |
|       |      |      | 58887          | —2,28               | 100T3Q/CL/RP          | 120   | 12      | Clear       | C, C-8           | 2000                | 1600   |          | 3 <sup>1</sup> / <sub>8</sub>   |
| 150   | T3   | RSC  | 58885          | —2,28               | 150T3Q/CL/RP          | 120   | 6       | Clear       | C, C-8           | 1500                | 2250   |          | 4 <sup>11</sup> / <sub>16</sub> |
|       |      |      | 58886          | —2,28               | 150T3Q/S/CL/RP        | 120   | 6       | Clear       | C, CC-8          | 2000                | 2400   |          | 3 <sup>1</sup> / <sub>8</sub>   |



T3



T3, T4

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A suitable protective shield, screening technique or both shall be used to protect people and surroundings from possible ultraviolet radiation.

| Watts | Bulb | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|----------|
| 150   | T3   | RSC  | 58915          | —2,28               | 150T3Q/S/CL           | 120   | 12      | Clear       | C, CC-8          | 2000                | 2400   |          | 3 1/8    |
| 200   | T3   | RSC  | 58917          | —2,28               | 200T3Q/CL             | 120   | 12      | Clear       | C, CC-8          | 2000                | 3350   |          | 4 11/16  |
| 300   | T3   | RSC  | 58920          | —2,28               | 300T3Q/CL/RP(EHM)     | 120   | 6       | Clear       | C, C-8           | 2000                | 9300   |          | 4 11/16  |
|       |      |      | 58923          | —2,20               | 300T3Q/CL(EHM)        | 120   | 12      | Clear       | C, C-8           | 2000                | 6000   |          | 4 11/16  |
|       |      |      | 58919          | —2,20               | 300T3Q/CL             | 130   | 12      | Clear       | C, C-8           | 2000                | 5950   |          | 4 11/16  |
| 500   | T3   | RSC  | 58865          | —2,28               | 500T3Q/CL/RP(FCL)     | 120   | 6       | Clear       | C, CC-8          | 2000                | 8750   |          | 4 11/16  |
|       |      |      | 58883          | —2,28               | 500T3Q(F CZ)          | 120   | 12      | Frosted     | C, C-8           | 2000                | 9300   |          | 4 11/16  |
|       |      |      | 58856          | —2,20               | 500T3Q/CL(FCL)        | 120   | 12      | Clear       | C, CC-8          | 2000                | 8750   |          | 4 11/16  |
|       |      |      | 58902          | —2,20               | 500T3Q/CL             | 130   | 12      | Clear       | C, C-8           | 2000                | 8750   |          | 4 11/16  |
| 1000  | T3   | RSC  | 58948          | —2,28               | 1000T3Q/CL            | 240   | 12      | Clear       | C, C-8           | 2000                | 21500  |          | 10 1/16  |
| 1500  | T3   | RSC  | 58859          | —2,28               | 1500T3Q/CL208V        | 208   | 12      | Clear       | C, C-8           | 2000                | 33000  |          | 10 1/16  |
|       |      |      | 58857          | —2,28               | 1500T3Q/CL            | 240   | 12      | Clear       | C, C-8           | 2000                | 33000  |          | 10 1/16  |
|       |      |      | 58858          | —2,28               | 1500T3Q/CL277V        | 277   | 12      | Clear       | C, C-8           | 2000                | 33000  |          | 10 1/16  |

**BI-PIN****STARLITE BI-PIN**

UV filter quartz capsule with axial filament.

Suitable for use in unshielded fixtures. Consult most recent luminaire standards for your area to determine luminaire requirements.

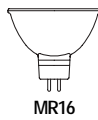
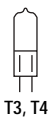
| Watts | Bulb | Base   | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty     | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|--------|----------------|---------------------|-----------------------|-------|-------------|-------------|------------------|---------------------|--------|----------|----------|
| 10    | T3   | G4     | 58692          | 27,29               | 10T3Q/CL/AX6V         | 6     | 40          | Clear       | C, AX            | 4000                | 130    | 7/8      | 1 1/4    |
|       |      |        | 58691          | 27,29               | 10T3Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 130    | 7/8      | 1 1/4    |
| 20    | T3   | G4     | 58694          | 27,29               | 20T3Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 320    | 7/8      | 1 1/4    |
|       |      |        | T4             | GY6.35              | 58663                 | 27,29 | 20T4Q/CL/AX | 12          | 40               | Clear               | C, AX  | 4000     | 320      |
| 35    | T4   | GY6.35 | 58672          | 27,29               | 35T4Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 600    | 1 1/8    | 1 3/4    |
| 50    | T4   | GY6.35 | 58676          | 27,29               | 50T4Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 910    | 1 1/8    | 1 3/4    |
| 75    | T4   | GY6.35 | 58680          | 27,29               | 75T4Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 1450   | 1 1/8    | 1 3/4    |
| 90    | T4   | GY6.35 | 58684          | 27,29               | 90T4Q/CL/AX           | 12    | 40          | Clear       | C, AX            | 4000                | 1800   | 1 1/8    | 1 3/4    |

**STANDARD BI-PIN**

UV filter quartz capsule with transverse filament.

Suitable for use in unshielded fixtures. Consult most recent luminaire standards for your area to determine luminaire requirements.

| Watts | Bulb | Base   | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|--------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|----------|
| 5     | T3   | G4     | 58652          | 27,28,30            | 5T3Q/CL               | 12    | 40      | Clear       | C, TR            | 2000                | 60     | 7/8      | 1 1/4    |
|       |      |        | 58651          | 27,28,31            | 5T3Q/F                | 12    | 40      | Frosted     | C, TR            | 2000                | 55     | 7/8      | 1 1/4    |
| 10    | T3   | G4     | 58650          | 27,28,30            | 10T3Q/CL/RP           | 12    | 6       | Clear       | C, TR            | 2000                | 140    | 7/8      | 1 1/4    |
|       |      |        | 58658          | 27,28,30            | 10T3Q/CL              | 12    | 40      | Clear       | C, TR            | 2000                | 140    | 7/8      | 1 1/4    |
|       |      |        | 58656          | 27,28,31            | 10T3Q/F               | 12    | 40      | Frosted     | C, TR            | 2000                | 130    | 7/8      | 1 1/4    |
| 20    | T3   | G4     | 58655          | 27,28,30            | 20T3Q/CL/RP           | 12    | 6       | Clear       | C, TR            | 2000                | 320    | 7/8      | 1 1/4    |
|       |      |        | 58661          | 27,28,30            | 20T3Q/CL              | 12    | 40      | Clear       | C, TR            | 2000                | 320    | 7/8      | 1 1/4    |
| 50    | T4   | GY6.35 | 58660          | 27,28,30            | 50T4Q/CL/RP           | 12    | 6       | Clear       | C, TR            | 2000                | 910    | 1 1/8    | 1 3/4    |
|       |      |        | 58675          | 27,28,30            | 50T4Q/CL              | 12    | 40      | Clear       | C, TR            | 2000                | 910    | 1 1/8    | 1 3/4    |
| 75    | T4   | GY6.35 | 58665          | 27,28,30            | 75T4Q/CL/RP           | 12    | 6       | Clear       | C, TR            | 2000                | 1200   | 1 1/8    | 1 3/4    |



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**BI-PIN**

**BI-PIN 24VOLT**

A suitable protective shield, screening technique or both shall be possible ultraviolet radiation.

amp shattering and from

| Watts | Bulb | Base   | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in) |
|-------|------|--------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|----------|
| 20    | T3   | G4     | 58662          | 32,33               | 20T3Q/CL/24V          | 24    | 40      | Clear       | C, AX            | 1000                | 320    | 7/8      | 1 1/4    |
| 50    | T4   | GY6.35 | 58678          | 32,33               | 50T4Q/CL/AX/24V       | 24    | 40      | Clear       | C, AX            | 2000                | 850    | 1 1/8    | 1 3/4    |

**TRU-AIM®**

**TRU-AIM IR MR16**

UV Filter capsule with axial filament in covered constant color, hard coated dichroic reflector and infrared reflective coating on the lamp capsule.

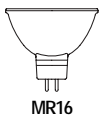
| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58531          | ☀️ 4,5,6,7,8        | 20MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 6000   | 10   | 1 3/4      |          |
|       |      |       | 58532          | ☀️ 4,5,6,7,8        | 20MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 2300   | 25   | 1 3/4      |          |
|       |      |       | 58533          | ☀️ 4,5,6,7,8        | 20MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 1000   | 40   | 1 3/4      |          |
|       |      |       | 58838          | ☀️ 4,5,6,7,8        | 20MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 450    | 60   | 1 3/4      |          |
| 37    | MR16 | GU5.3 | 58641          | ☀️ 4,5,6,8,10       | 37MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 12500  | 10   | 1 3/4      |          |
|       |      |       | 58634          | ☀️ 4,5,6,8,10       | 37MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 4400   | 25   | 1 3/4      |          |
|       |      |       | 58633          | ☀️ 4,5,6,8,10       | 37MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 2200   | 40   | 1 3/4      |          |
|       |      |       | 58837          | ☀️ 4,5,6,8,10       | 37MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 1100   | 60   | 1 3/4      |          |
| 50    | MR16 | GU5.3 | 54175          | ☀️ 4,5,6,8,10       | 50MR16/IR/SP10C       | 12    | 20      | Spot         | C, AX            | 4000                | 15000  | 10   | 1 3/4      |          |
|       |      |       | 54174          | ☀️ 4,5,6,8,10       | 50MR16/IR/NFL25C      | 12    | 20      | Narrow Flood | C, AX            | 4000                | 5700   | 25   | 1 3/4      |          |
|       |      |       | 54173          | ☀️ 4,5,6,8,10       | 50MR16/IR/FL40C       | 12    | 20      | Flood        | C, AX            | 4000                | 2850   | 40   | 1 3/4      |          |
|       |      |       | 54237          | ☀️ 4,5,6,8,10       | 50MR16/IR/WFL60C      | 12    | 20      | Wide Flood   | C, AX            | 4000                | 1430   | 60   | 1 3/4      |          |

**TRU-AIM TITAN® MR16**

UV Filter capsule with axial filament in constant color, hard coated dichroic reflector.

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type       | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|-----------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58550          | ☀️ 5,7,32,34        | 20MR16/T/NSP10(ESX)   | 12    | 10      | Narrow Spot     | C, AX            | 4000                | 5000   | 10   | 1 3/4      |          |
|       |      |       | 58551          | ☀️ 5,7,32,34        | 20MR16/T/FL40(BAB)    | 12    | 10      | Flood           | C, AX            | 4000                | 700    | 40   | 1 3/4      |          |
|       |      |       | 58562          | ☀️ 5,7,32,34        | 20MR16/T/WFL60        | 12    | 10      | Very Wide Flood | C, AX            | 4000                | 350    | 60   | 1 3/4      |          |
| 35    | MR16 | GU5.3 | 58558          | ☀️ 5,10,32,34       | 35MR16/T/NSP10(FRB)   | 12    | 10      | Narrow Spot     | C, AX            | 4000                | 8300   | 10   | 1 3/4      |          |
|       |      |       | 58547          | ☀️ 5,10,32,34       | 35MR16/T/NFL25        | 12    | 10      | Narrow Flood    | C, AX            | 4000                | 3100   | 25   | 1 3/4      |          |



MR16

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## TRU-AIM TITAN® MR16

UV Filter capsule with axial filament in constant color, hard coated. A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

lamp shattering and from

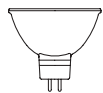
| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type       | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|-----------------|------------------|---------------------|--------|------|------------|----------|
| 35    | MR16 | GU5.3 | 58557          | ☀5,10,32,34         | 35MR16/T/FL40(FMV)    | 12    | 10      | Flood           | C, AX            | 4000                | 1250   |      | 40         | 1 3/4    |
|       |      |       | 58552          | ☀5,10,32,34         | 35MR16/T/MWFL60       | 12    | 10      | Very Wide Flood | C, AX            | 4000                | 650    |      | 60         | 1 3/4    |
| 50    | MR16 | GU5.3 | 58556          | ☀5,10,32,34         | 50MR16/T/NSP10(EXT)   | 12    | 10      | Narrow Spot     | C, AX            | 4000                | 11500  |      | 10         | 1 3/4    |
|       |      |       | 58555          | ☀5,10,32,34         | 50MR16/T/NFL25(EXZ)   | 12    | 10      | Narrow Flood    | C, AX            | 4000                | 3200   |      | 25         | 1 3/4    |
|       |      |       | 58554          | ☀5,10,32,34         | 50MR16/T/FL40(EXN)    | 12    | 10      | Flood           | C, AX            | 4000                | 2000   |      | 40         | 1 3/4    |
|       |      |       | 58553          | ☀5,10,32,34         | 50MR16/T/MWFL60(FMV)  | 12    | 10      | Very Wide Flood | C, AX            | 4000                | 1000   |      | 60         | 1 3/4    |
| 65    | MR16 | GU5.3 | 58566          | ☀5,10,32,34         | 65MR16/T/NSP10(FPA)   | 12    | 10      | Narrow Spot     | C, AX            | 4000                | 14000  |      | 10         | 1 3/4    |
|       |      |       | 58567          | ☀5,10,32,34         | 65MR16/T/NFL25        | 12    | 10      | Narrow Flood    | C, AX            | 4000                | 4000   |      | 25         | 1 3/4    |
|       |      |       | 58571          | ☀5,10,32,34         | 65MR16/T/FL40(FPB)    | 12    | 10      | Flood           | C, AX            | 4000                | 2100   |      | 40         | 1 3/4    |
|       |      |       | 58572          | ☀5,10,32,34         | 65MR16/T/MWFL60       | 12    | 10      | Very Wide Flood | C, AX            | 4000                | 1050   |      | 60         | 1 3/4    |

## TRU-AIM BRILLIANT® MR16

UV Filter capsule with axial filament in constant color, aluminized reflector.

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58589          | ☀5,7,32,35          | 20MR16/B/NSP8         | 12    | 10      | Narrow Spot  | C, AX            | 4000                | 4650   |      | 8          | 1 3/4    |
|       |      |       | 58590          | ☀5,7,32,35          | 20MR16/B/FL35         | 12    | 10      | Flood        | C, AX            | 4000                | 625    |      | 35         | 1 3/4    |
| 35    | MR16 | GU5.3 | 58591          | ☀5,10,32,35         | 35MR16/B/NSP10        | 12    | 10      | Narrow Spot  | C, AX            | 4000                | 8700   |      | 10         | 1 3/4    |
|       |      |       | 58593          | ☀5,10,32,35         | 35MR16/B/FL35         | 12    | 10      | Flood        | C, AX            | 4000                | 1300   |      | 35         | 1 3/4    |
| 50    | MR16 | GU5.3 | 58594          | ☀5,10,32,35         | 50MR16/B/NSP11        | 12    | 10      | Narrow Spot  | C, AX            | 4000                | 10500  |      | 11         | 1 3/4    |
|       |      |       | 58595          | ☀5,10,32,35         | 50MR16/B/NFL25        | 12    | 10      | Narrow Flood | C, AX            | 4000                | 3000   |      | 25         | 1 3/4    |
|       |      |       | 58596          | ☀5,10,27,35,36      | 50MR16/B/FL35         | 12    | 10      | Flood        | C, AX            | 4000                | 1900   |      | 35         | 1 3/4    |
| 65    | MR16 | GU5.3 | 58559          | ☀5,10,32,35         | 65MR16/B/NSP10        | 12    | 10      | Narrow Spot  | C, AX            | 4000                | 12500  |      | 10         | 1 3/4    |
|       |      |       | 58561          | ☀5,10,32,35         | 65MR16/B/NFL25        | 12    | 10      | Narrow Flood | C, AX            | 4000                | 3600   |      | 25         | 1 3/4    |
|       |      |       | 58560          | ☀5,10,32,35         | 65MR16/B/FL35         | 12    | 10      | Flood        | C, AX            | 4000                | 2100   |      | 35         | 1 3/4    |



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#### TRU-AIM® MR16

UV Filter capsule with axial filament in dichroic reflector.

A suitable protective shield, screening technique or both shall be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type       | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|-----------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58576          | ☀5,7,32,37          | 20MR16/NSP/RP(ESX)    | 12    | 6       | Narrow Spot     | C, AX            | 4000                | 6000   |      | 8          | 1 3/4    |
|       |      |       | 54201          | ☀5,7,32,37          | 20MR16/NSP8(ESX)      | 12    | 20      | Narrow Spot     | C, AX            | 4000                | 6000   |      | 8          | 1 3/4    |
|       |      |       | 58646          | ☀5,7,32,37          | 20MR16/FL/RP(BAB)     | 12    | 6       | Flood           | C, AX            | 4000                | 700    |      | 40         | 1 3/4    |
|       |      |       | 54200          | ☀5,7,32,37          | 20MR16/FL40(BAB)      | 12    | 20      | Flood           | C, AX            | 4000                | 700    |      | 40         | 1 3/4    |
| 35    | MR16 | GU5.3 | 54204          | ☀5,10,32,37         | 35MR16/NSP8(FRB)      | 12    | 20      | Narrow Spot     | C, AX            | 4000                | 11000  |      | 8          | 1 3/4    |
|       |      |       | 58602          | ☀5,10,32,37         | 35MR16/SP20(FRA)      | 12    | 10      | Spot            | C, AX            | 4000                | 2800   |      | 20         | 1 3/4    |
|       |      |       | 54203          | ☀5,10,32,37         | 35MR16/FL40(FVM)      | 12    | 20      | Flood           | C, AX            | 4000                | 1400   |      | 40         | 1 3/4    |
| 50    | MR16 | GU5.3 | 58629          | ☀5,10,32,37         | 50MR16/NSP/RP(EXT)    | 12    | 6       | Narrow Spot     | C, AX            | 4000                | 11000  |      | 12         | 1 3/4    |
|       |      |       | 54208          | ☀5,10,32,37         | 50MR16/NSP12(EXT)     | 12    | 20      | Narrow Spot     | C, AX            | 4000                | 11000  |      | 12         | 1 3/4    |
|       |      |       | 54205          | ☀5,10,32,37         | 50MR16/NFL25(EXZ)     | 12    | 20      | Narrow Flood    | C, AX            | 4000                | 3200   |      | 25         | 1 3/4    |
|       |      |       | 58983          | ☀5,10,32,37         | 50MR16/FL/RP(EXN)     | 12    | 6       | Flood           | C, AX            | 4000                | 2000   |      | 40         | 1 3/4    |
|       |      |       | 54207          | ☀5,10,32,37         | 50MR16/FL40(EXN)      | 12    | 20      | Flood           | C, AX            | 4000                | 2000   |      | 40         | 1 3/4    |
|       |      |       | 54206          | ☀5,10,32,37         | 50MR16/WFL60(FVM)     | 12    | 20      | Very Wide Flood | C, AX            | 4000                | 1200   |      | 60         | 1 3/4    |
| 65    | MR16 | GU5.3 | 58563          | ☀5,10,32,37         | 65MR16/NSP10(FPA)     | 12    | 10      | Narrow Spot     | C, AX            | 4000                | 14000  |      | 10         | 1 3/4    |
|       |      |       | 58565          | ☀5,10,32,37         | 65MR16/NFL25(FPC)     | 12    | 10      | Narrow Flood    | C, AX            | 4000                | 4000   |      | 25         | 1 3/4    |
|       |      |       | 58564          | ☀5,10,32,37         | 65MR16/FL40(FPB)      | 12    | 10      | Flood           | C, AX            | 4000                | 2100   |      | 40         | 1 3/4    |

### TRU-AIM® MR11

UV Filter capsule with axial filament in dichroic reflector.

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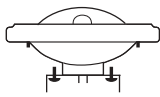
| Watts | Bulb | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|------|----------------|---------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR11 | GU4  | 55109          | ☀5,7,32,37          | 20MR11/SP10(FTB)      | 12    | 10      | Spot      | C, AX            | 4000                | 5500   |      | 10         | 1 1/2    |
|       |      |      | 55107          | ☀5,7,32,37          | 20MR11/FL35(FTD)      | 12    | 10      | Flood     | C, AX            | 4000                | 700    |      | 35         | 1 1/2    |
| 35    | MR11 | GU4  | 55113          | ☀5,10,32,37         | 35MR11/SP10(FTE)      | 12    | 10      | Spot      | C, AX            | 4000                | 3800   |      | 10         | 1 1/2    |
|       |      |      | 55111          | ☀5,10,32,37         | 35MR11/FL35(FTH)      | 12    | 10      | Flood     | C, AX            | 4000                | 1500   |      | 35         | 1 1/2    |



MR16, MR11



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[www.interlight.biz](http://www.interlight.biz)**TRU-AIM®****TRU-AIM® COVERED MR****TRU-AIM TITAN® Covered MR16**

UV Filter capsule with axial filament in constant color, hard coated dichroic reflector.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type    | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|--------------|------------------|---------------------|--------|------|------------|----------|
| 35    | MR16 | GU5.3 | 58549          | ☀5,7,8,27,38        | 35MR16/TNFL25/C       | 12    | 10      | Narrow Flood | C, AX            | 4000                | 1650   |      | 25         | 1 3/4    |

**TRU-AIM BRILLIANT® Covered MR16**

UV Filter capsule with axial filament in constant color, aluminized reflector.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type   | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR16 | GU5.3 | 58570          | ☀5,7,8,27,36        | 20MR16/BFL35/C        | 12    | 10      | Flood       | C, AX            | 4000                | 600    |      | 35         | 1 3/4    |
|       |      |       | 58569          | ☀5,7,8,27,36        | 20MR16/BNSP8/C        | 12    | 10      | Narrow Spot | C, AX            | 4000                | 4400   |      | 8          | 1 3/4    |
| 35    | MR16 | GU5.3 | 58539          | ☀5,7,8,27,36        | 35MR16/BNSP8/C        | 12    | 10      | Narrow Spot | C, AX            | 4000                | 8700   |      | 8          | 1 3/4    |
| 50    | MR16 | GU5.3 | 58574          | ☀5,7,8,27,36        | 50MR16/BNSP11/C       | 12    | 10      | Narrow Spot | C, AX            | 4000                | 10000  |      | 11         | 1 3/4    |
|       |      |       | 58575          | ☀5,7,8,27,36        | 50MR16/BFL35/C        | 12    | 10      | Flood       | C, AX            | 4000                | 1800   |      | 35         | 1 3/4    |

**TRU-AIM Covered MR11**

UV Filter capsule with axial filament in dichroic reflector.

| Watts | Bulb | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|------|----------------|---------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|------|------------|----------|
| 20    | MR11 | GU4  | 55119          | ☀5,7,8,27,39        | 20MR11/FL35/C(FTD)    | 12    | 10      | Flood     | C, AX            | 4000                | 700    |      | 35         | 1 5/8    |

**ALUMINUM REFLECTOR****AR70 ALUMINUM REFLECTOR**

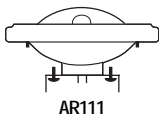
UV Filter capsule with axial filament in precisely engineered aluminum reflector.

| Watts | Bulb | Base  | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|------|-------|----------------|---------------------|-----------------------|-------|---------|-----------|------------------|---------------------|--------|------|------------|----------|
| 20    | AR70 | BA15d | 59013          | 27,40               | 20AR70/SP8            | 12    | 10      | Spot      | C, C-8           | 3000                | 7700   |      | 8          | 1 5/16   |
|       |      |       | 59012          | 27,40               | 20AR70/FL25           | 12    | 10      | Flood     | C, C-8           | 3000                | 900    |      | 25         | 1 5/16   |
| 50    | AR70 | BA15d | 59017          | 27,40               | 50AR70/SP8            | 12    | 10      | Spot      | C, C-8           | 3000                | 12500  |      | 8          | 1 5/16   |
|       |      |       | 59016          | 27,40               | 50AR70/FL25           | 12    | 10      | Flood     | C, C-8           | 3000                | 2600   |      | 25         | 1 5/16   |

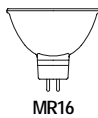
**AR111 ALUMINUM REFLECTOR**

UV Filter capsule with axial filament in precisely engineered aluminum reflector.

| Watts | Bulb  | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type  | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP | Beam Angle | MOL (in) |
|-------|-------|------|----------------|---------------------|-----------------------|-------|---------|------------|------------------|---------------------|--------|------|------------|----------|
| 35    | AR111 | G53  | 55101          | 27,40               | 35AR111/SSP4/6V       | 6     | 6       | Super Spot | C, C-8           | 3000                | 30000  |      | 4          | 2 3/8    |
|       |       |      | 55102          | 27,40               | 35AR111/SSP4          | 12    | 6       | Super Spot | C, C-8           | 3000                | 40000  |      | 4          | 2 3/8    |
|       |       |      | 55110          | 27,40               | 35AR111/SP8           | 12    | 6       | Spot       | C, C-8           | 3000                | 14000  |      | 8          | 2 5/16   |
|       |       |      | 55114          | 27,40               | 35AR111/FL25          | 12    | 6       | Flood      | C, C-8           | 3000                | 2500   |      | 25         | 2 5/16   |
| 50    | AR111 | G53  | 55105          | 27,40               | 50AR111/SSP4          | 12    | 6       | Super Spot | C, C-8           | 3000                | 45000  |      | 4          | 2 3/8    |
|       |       |      | 55104          | 27,40               | 50AR111/SP8           | 12    | 6       | Spot       | C, C-8           | 3000                | 20000  |      | 8          | 2 1/4    |
|       |       |      | 55103          | 27,40               | 50AR111/FL25          | 12    | 6       | Flood      | C, C-8           | 3000                | 4000   |      | 25         | 2 5/16   |
| 75    | AR111 | G53  | 55125          | 27,40               | 75AR111/SP8           | 12    | 6       | Spot       | C, C-8           | 3000                | 30000  |      | 8          | 2 1/4    |



AR111



MR16

## ALUMINUM REFLECTOR

UV Filter capsule with axial filament in precisely engineered aluminum reflector.

| Watts | Bulb  | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Beam Type  | Class & Filament | Avg Rated Life(hrs) | Lumens | CBCP  | Beam Angle | MOL (in)                       |
|-------|-------|------|----------------|---------------------|-----------------------|-------|---------|------------|------------------|---------------------|--------|-------|------------|--------------------------------|
| 75    | AR111 | G53  | 55123          | 27,40               | 75AR111/FL25          | 12    | 6       | Flood      | C, C-8           | 3000                |        | 5300  | 25         | 2 <sup>5</sup> / <sub>16</sub> |
|       |       |      | 55124          | 27,40               | 75AR111/WFL45         | 12    | 6       | Wide Flood | C, C-8           | 3000                |        | 2000  | 45         | 2 <sup>3</sup> / <sub>16</sub> |
| 100   | AR111 | G53  | 55129          | 27,40               | 100AR111/SP8          | 12    | 6       | Spot       | C, C-8           | 3000                |        | 48000 | 8          | 2 <sup>1</sup> / <sub>4</sub>  |
|       |       |      | 55127          | 27,40               | 100AR111/FL25         | 12    | 6       | Flood      | C, C-8           | 3000                |        | 8500  | 25         | 2 <sup>5</sup> / <sub>16</sub> |
|       |       |      | 55128          | 27,40               | 100AR111/WFL45        | 12    | 6       | Wide Flood | C, C-8           | 3000                |        | 2800  | 45         | 2 <sup>3</sup> / <sub>16</sub> |

## SIRIUS MR16










| Watts | Bulb              | Base | Product Number | Symbols & Footnotes | Ordering Abbreviation | Volts | Pkg Qty | Lamp Finish | Class & Filament | Avg Rated Life(hrs) | Lumens | LCL (in) | MOL (in)                      |
|-------|-------------------|------|----------------|---------------------|-----------------------|-------|---------|-------------|------------------|---------------------|--------|----------|-------------------------------|
| 50    | MR16<br>SIG 64005 | K23D | 58701          | ☀️ 32,37            | 50SIRIUS/SIG64005     | 10    | 10      |             | C                | 6000                | 220    |          | 1 <sup>1</sup> / <sub>8</sub> |

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TUNGSTEN HALOGEN

## SYMBOLS & FOOTNOTES FOR TUNGSTEN HALOGEN LAMPS

| Symbol   | Description  |
|--|--|
|  | New item introduced within the past year.  |
|  | Item will be discontinued when inventory is depleted.  |
|  | Heat resistant, hard glass.  |
|  | PAR lamps are suitable for indoor and outdoor use.   |
|  | Operate in any position.   |
|  | Operate horizontal.  |
|  | This lamp or ballast meets minimum Federal efficiency standards.   |
|  | New optical system being introduced during 1998.   |
|  | This ECOLOGIC® lamp was designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states. Disposal regulations may vary; check local and state regulations. |

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| Footnote | Description   |
|----------|---|
| 1        | Approximate life for 130 volt tungsten halogen lamps operated at 120 volts is within the value calculated using the recommended equations for standard incandescent lamps, as set forth in the IES Handbook, 8th edition. Because of the uncertain nature of the halogen cycle on the coil when operated at less than rated voltage, life of tungsten halogen lamps varies considerably and unpredictably. OSRAM SYLVANIA does not recommend operation at other than rated voltage. |
| 2        | A suitable protective shield, screening technique, or both must be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.   |
| 3        | Operate only in porcelain sockets.  |
| 4        | Infrared lamp technology  |
| 5        | Max. seal temperature 350° C  |
| 6        | UV Filter capsule with axial filament in covered constant color, hard coated dichroic reflector and infrared reflective coating on the lamp capsule.  |
| 7        | Max pin temperature 220° C.   |
| 8        | Max temperature at lens reflector joint 240° C.   |
| 9        | UV Filter capsule with axial filament in constant color, hard coated Dichroic reflector and infrared reflective coating on the lamp capsule.  |
| 10       | Max pin temperature 250° C.   |
| 11       | State of the Art SPL Optics   |
| 12       | In base up operation, heat may eventually deteriorate paper-lined or plastic sockets.   |
| 13       | To avoid electric shock and/or skin burns, turn off power and allow bulb to cool before handling or attempting replacement.   |
| 15       | For indoor or outdoor use where not directly exposed to weather. Exposure to weather may damage the bulb.   |
| 16       | For Indoor Use only.  |
| 17       | Not recommended for use in enclosed close-fitting housings.   |
| 19       | Retrofit for 65BR30/FL, or 75R30/FL.  |
| 20       | Because this bulb radiates considerable heat, do not use in enclosed, close fitting fixtures, or in close proximity to people, combustible materials, or substances adversely affected by heat or drying.   |
| 21       | Even though this bulb may continue to light after the lens or reflector is cracked or broken, it should be replaced as soon as possible since the pressure filled inner capsule could unexpectedly shatter, creating a risk of personal injury or property damage. In addition, the inner capsule produces ultraviolet radiation that can cause injury to the eyes and skin with prolonged exposure without the blocking effect of the outer glass bulb.                            |
| 22       | Use only with ceramic/porcelain sockets and in fixtures rated for this bulb type, including voltage and wattage.  |
| 23       | For use only in fixtures designed specifically for dichroic Reflector Lamps.  |
| 24       | Should be shielded against moisture falling on bulb.  |
| 25       | For use only with heat-resisting connector and with bulb supported by bulb rim or metal shell of base.  |
| 26       | UV Filter Quartz  |
| 27       | Suitable for use in unshielded fixtures. Consult most recent luminaire standards for your area to determine luminaire requirements.   |



## SYMBOLS & FOOTNOTES FOR TUNGSTEN HALOGEN LAMPS

| Footnote | Description  |
|----------|--|
| 28       | For use where seal temperature does not exceed 650° F.   |
| 29       | Starlite Low Pressure - UV Filter Quartz   |
| 30       | Standard Clear - UV Filter Quartz  |
| 31       | Standard Frosted - UV Filter Quartz  |
| 32       | A protective shield must be used external to the lamp.   |
| 33       | Standard Clear - 24V - UV Filter Quartz - Not suitable for use in open fixtures.                 |
| 34       | UV Filter capsule with axial filament in constant color, hard coated dichroic reflector.         |
| 35       | UV Filter capsule with axial filament in aluminized reflector.                                   |
| 36       | UV Filter capsule with axial filament in covered aluminized reflector.                           |
| 37       | UV Filter capsule with axial filament in dichroic reflector.                                     |
| 38       | UV Filter capsule with axial filament in covered constant color, hard coated dichroic reflector. |
| 39       | UV Filter capsule with axial filament in covered dichroic reflector.                             |
| 40       | UV Filter capsule with axial filament in precisely engineered aluminum reflector.                |

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**MINIATURE & AUTOMOTIVE LAMPS**

| Ordering Abbreviation | Product Number | Bulb         | Base            | Avg Rated Life (hrs) | Approx Lumens   | Amps        | Design Voltage (V) | Pkg Qty | MOL (in) | Footnotes |
|-----------------------|----------------|--------------|-----------------|----------------------|-----------------|-------------|--------------------|---------|----------|-----------|
| 1076                  | 36183          | S8           | DC Bayonet      | 200                  | 402.12          | 1.8         | 13                 | 1000    | 2        |           |
| 1130                  | 36237          | S8           | DC Bayonet      | 200                  | 263.89          | 2.63        | 6                  | 1000    | 2        |           |
| 1141                  | 36377          | S8           | SC Bayonet      | 1000                 | 263.89          | 1.44        | 13                 | 1000    | 2        |           |
| 1156                  | 36521          | S8           | SC Bayonet      | 1200                 | 402.00          | 2.1         | 13                 | 1000    | 2        |           |
| 1156                  | 36521          | S8           | SC Bayonet      | 1200                 | 402.00          | 2.1         | 13                 | 1000    | 2        |           |
| 1157                  | 36561          | S8           | DC Index        | 1200<br>5000         | 402.00<br>38.00 | 2.1<br>0.6  | 13<br>14           | 1000    | 2        |           |
| 120MB                 | 34503          | T2.5         | Mini Bayonet    | 10000                | 4.52            | 0.025       | 120                | 1000    | 1.19     |           |
| 120MB                 | 34503          | T2.5         | Mini Bayonet    | 10000                | 4.52            | 0.025       | 120                | 1000    | 1.19     |           |
| 120MB 6W              | 34513          | T2.5         | Mini Bayonet    | 3000                 | 18.00           | 0.052       | 120                | 1000    | 1.19     |           |
| 120PC                 | 34519          | T2           | Bipin           | 7500                 |                 | 0.025       | 120                | 1000    | 1.125    | 1         |
| 120PSB                | 34557          | T2           | Slide Base # 5  | 10000                |                 | 0.025       | 120                | 1000    | 1.11     |           |
| 120PSB                | 34557          | T2           | Slide Base # 5  | 10000                |                 | 0.025       | 120                | 1000    | 1.11     |           |
| 12PSB                 | 32983          | T2           | Slide Base # 5  | 12000                |                 | 0.17        | 12                 | 1000    | 1.11     |           |
| 161                   | 34691          | T3.25        | W2.1x9.2D       | 4000                 | 12.57           | 0.19        | 14                 | 1000    | 1.054    |           |
| 168                   | 34711          | T3.25        | W2.1x9.2D       | 1500                 | 37.70           | 0.35        | 14                 | 1000    | 1.054    |           |
| 17                    | 33061          | T1.75        | W2.1x4.9D       | 5000                 | 8.17            | 0.065       | 28                 | 1000    | 0.8      |           |
| 1815                  | 37329          | T3.25        | Mini Bayonet    | 3000                 | 17.59           | 0.2         | 14                 | 1000    | 1.19     |           |
| 1816                  | 37333          | T3.25        | Mini Bayonet    | 1000                 | 37.70           | 0.33        | 13                 | 1000    | 1.19     |           |
| 1819                  | 37351          | T3.25        | Mini Bayonet    | 2500                 | 4.27            | 0.04        | 28                 | 1000    | 1.19     |           |
| 1820                  | 37355          | T3.25        | Mini Bayonet    | 1000                 | 20.11           | 0.1         | 28                 | 1000    | 1.19     |           |
| 1822                  | 37367          | T3.25        | Mini Bayonet    | 1000                 | 26.39           | 0.1         | 36                 | 1000    | 1.19     |           |
| 1829                  | 37377          | T3.25        | Mini Bayonet    | 1000                 | 12.57           | 0.07        | 28                 | 1000    | 1.19     |           |
| 1835                  | 37387          | T3.25        | Mini Bayonet    | 5000                 | 13.82           | 0.05        | 55                 | 1000    | 1.19     |           |
| 1847                  | 37391          | T3.25        | Mini Bayonet    | 5000                 | 4.78            | 0.15        | 6                  | 1000    | 1.19     |           |
| 1864                  | 37413          | T3.25        | Mini Bayonet    | 1500                 | 37.70           | 0.17        | 28                 | 1000    | 1.19     |           |
| 1893                  | 37505          | T3.25        | Mini Bayonet    | 2500                 | 25.13           | 0.33        | 14                 | 1000    | 1.19     |           |
| 1895                  | 37531          | G4.5         | Mini Bayonet    | 2000                 | 25.13           | 0.27        | 14                 | 1000    | 1.06     |           |
| 194                   | 34761          | T3.25        | W2.1x9.2D       | 2500                 | 25.13           | 0.27        | 14                 | 1000    | 1.054    |           |
| 1992 ERD              | 30215          | T3.25        | Wedge           | 150                  | 804.00          | 2.5         | 14                 | 24      | 1        |           |
| 214-2 BU              | 34942          | T3           | End Caps        | 1000                 | 50.27           | 0.52        | 14                 | 1000    | 1.72     |           |
| 2187                  | 37747          | T1.75        | 5/8" Wire Term  | 7000                 | 3.70            | 0.04        | 28                 | 1000    | 0.52     |           |
| 222                   | 34967          | TL3          | Mini Screw      | 5                    |                 | 0.22        | 2                  | 1000    | 0.94     |           |
| 2342 24:30V30MA       | 39307          | T5           | W2x4.6D         | 1000                 |                 | 0.3         | 24                 | 200     | 0.78     |           |
| 24E                   | 33181          | T2           | Slide Base # 3  | 7000                 |                 | 0.035       | 24                 | 1000    | 1.69     |           |
| 24ESB                 | 33189          | T2           | Slide Base # 5  | 8000                 |                 | 0.04        | 24                 | 1000    | 1.11     |           |
| 24MB                  | 33213          | T2.5         | Mini Bayonet    | 10000                | 6.28            | 0.07        | 24                 | 1000    | 1.19     |           |
| 24PSB                 | 33229          | T2           | Slide Base # 5  | 10000                |                 | 0.072       | 24                 | 1000    | 1.11     |           |
| 24X                   | 33257          | T2           | Slide Base # 3  | 8000                 |                 | 0.035       | 24                 | 1000    | 1.69     |           |
| 259                   | 35027          | T3.25        | W2.1x9.2D       | 5000                 | 8.17            | 0.25        | 6                  | 1000    | 1.054    |           |
| 28ESB                 | 33285          | T2           | Slide Base # 5  | 6000                 |                 | 0.04        | 28                 | 1000    | 1.11     |           |
| 28MB                  | 33311          | T2.5         | Mini Bayonet    | 5000                 | 3.64            | 0.04        | 28                 | 1000    | 1.19     |           |
| 28PSB                 | 33327          | T2           | Slide Base # 5  | 5000                 |                 | 0.04        | 28                 | 1000    | 1.11     |           |
| 30099 PLH             | 32169          | T2           | Socket          |                      |                 |             |                    | 100     | 0.91     | 2,3,4     |
| 30110 PILOT TPLR      | 32161          | T2           | Dome Trans      |                      |                 |             |                    | 1000    | 0.38     | 5         |
| 30112 PILOT TPLG      | 32159          | T2           | Dome Trans      |                      |                 |             |                    | 1000    | 0.38     | 5         |
| 30120 PILOT FLR       | 32119          | T2           | Dome Fluted     |                      |                 |             |                    | 1000    | 0.38     | 5         |
| 31099 PLH BAY         | 32173          | T2.5 & T3.25 | Socket          |                      |                 |             |                    | 100     | 1.68     | 2,4,6     |
| 313                   | 35133          | T3.25        | Mini Bayonet    | 500                  | 43.92           | 0.17        | 28                 | 1000    | 1.06     |           |
| 3157WL                | 59894          | S8           | Wedge           | 1200<br>5000         | 402.12<br>37.69 | 2.1<br>0.59 | 13<br>14           | 1000    | 1.7      |           |
| 327                   | 35155          | T1.75        | SC Midg Flanged | 4000                 | 4.27            | 0.04        | 28                 | 1000    | 0.63     |           |
| 328                   | 35169          | T1.75        | SC Midg Flanged | 1000                 | 4.27            | 0.2         | 6                  | 1000    | 0.63     |           |

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| Ordering Abbreviation | Product Number | Bulb  | Base             | Avg Rated Life (hrs) | Approx Lumens | Amps  | Design Voltage (V) | Pkg Qty | MOL (in) | Footnotes |
|-----------------------|----------------|-------|------------------|----------------------|---------------|-------|--------------------|---------|----------|-----------|
| 330                   | 35183          | T1.75 | SC Midg Flanged  | 1500                 | 6.28          | 0.08  | 14                 | 1000    | 0.63     |           |
| 334                   | 35205          | T1.75 | Midget Groove    | 4000                 | 4.27          | 0.04  | 28                 | 1000    | 0.63     |           |
| 3797 24V2W            | 39375          | T2.75 | BA9S             | 200                  | 16.96         | 0.083 | 24                 | 200     | 0.932    |           |
| 382                   | 35311          | T1.75 | SC Midg Flanged  | 15000                | 3.76          | 0.08  | 14                 | 1000    | 0.63     |           |
| 385                   | 35321          | T1.75 | SC Midg Flanged  | 10000                | 1.88          | 0.04  | 28                 | 1000    | 0.36     |           |
| 387                   | 35327          | T1.75 | SC Midg Flanged  | 7000                 | 3.76          | 0.04  | 28                 | 1000    | 0.63     |           |
| 388                   | 35349          | T1.75 | Midget Groove    | 7000                 | 3.76          | 0.04  | 28                 | 1000    | 0.63     |           |
| 44                    | 33459          | T3.25 | Mini Bayonet     | 3000                 | 11.28         | 0.25  | 6                  | 1000    | 0.94     |           |
| 4414 PAR 36           | 30965          | PAR36 | 2 Screw Terminal | 300                  |               | 1.41  | 13                 | 12      | 2 3/4    |           |
| 464                   | 35413          | T3.25 | W2.1x9.2D        | 1500                 | 37.70         | 0.17  | 28                 | 1000    | 1.054    |           |
| 47                    | 33479          | T3.25 | Mini Bayonet     | 3000                 | 6.28          | 0.15  | 6                  | 1000    | 0.94     |           |
| 48C                   | 33507          | T2    | Slide Base # 3   | 7000                 |               | 0.035 | 48                 | 1000    | 1.69     |           |
| 48PSB                 | 33599          | T2    | Slide Base # 5   | 10000                |               | 0.05  | 48                 | 1000    | 1.69     |           |
| 502                   | 35417          | G4.5  | Mini Screw       | 100                  | 7.53          | 0.15  | 5                  | 1000    | 1.06     |           |
| 516/2PK/RP 12V        | 35920          | T5    | W2.1x9.2D        | 300                  | 43.98         | 0.312 | 13                 | 12      | 1.49     |           |
| 52A TB OBS            | 33711          | T2    | Slide Base # 6   | 8000                 |               | 0.03  | 24                 | 1000    | 0.92     |           |
| 53                    | 33719          | G3.5  | Mini Bayonet     | 1000                 | 12.57         | 0.12  | 14                 | 1000    | 0.6      |           |
| 55                    | 33785          | G4.5  | Mini Bayonet     | 500                  | 25.13         | 0.41  | 7                  | 1000    | 0.84     |           |
| 56                    | 33831          | T1.75 | W2.1x4.9D        | 20000                | 1.88          | 0.115 | 5                  | 1000    | 0.8      |           |
| 57                    | 33871          | G4.5  | Mini Bayonet     | 500                  | 25.13         | 0.24  | 14                 | 1000    | 0.84     |           |
| 60MB                  | 33927          | T2.5  | Mini Bayonet     | 7500                 | 9.17          | 0.05  | 60                 | 1000    | 1.19     |           |
| 60PSB                 | 33945          | T2    | Slide Base # 5   | 7500                 |               | 0.05  | 60                 | 1000    | 1.11     |           |
| 6411 12V10W           | 39407          | T3.25 | SV8.5-8          | 200                  | 100.53        | 0.83  | 12                 | 200     | 1.61     |           |
| 64111 12V5W           | 39431          | T2.75 | Mini Bayonet     | 240                  | 80.42         |       | 12                 | 200     | 1.29     | 7         |
| 6413 12V5W            | 39405          | T3.25 | SV8.5-8          | 200                  | 100.53        | 0.4   | 12                 | 200     | 1.61     |           |
| 64150 H1 12V55W       | 31393          | T2.5  | P14.5S           | 225                  | 1621.06       |       | 12                 | 100     | 2.43     |           |
| 64151 H3 12V55W       | 31397          | T3.25 | PK22S            | 225                  | 1520.53       |       | 12                 | 100     | 1.65     | 8,9       |
| 64156 H3 24V70W       | 31415          | T3.25 | PK22S            | 225                  | 1834.69       |       | 24                 | 100     | 1.65     | 8,9       |
| 6421 24V3W            | 39376          | T3.25 | SV8.5-8          | 1000                 | 17.59         | 0.125 | 24                 | 200     | 1.61     |           |
| 6424 24V5W            | 39411          | T3.25 | SV8.5-8          | 200                  | 61.95         | 0.2   | 24                 | 200     | 1.61     |           |
| 6429 24V10W           | 39397          | T3.25 | SV8.5-8          | 200                  | 105.55        | 0.42  | 24                 | 200     | 1.61     |           |
| 656                   | 35561          | T3.25 | W2.1x9.2D        | 2500                 | 7.79          | 0.06  | 28                 | 1000    | 1.054    |           |
| 657                   | 35565          | T3.25 | W2.1x9.2D        | 15000                | 7.79          | 0.08  | 28                 | 1000    | 1.054    |           |
| 657                   | 35565          | T3.25 | W2.1x9.2D        | 15000                | 7.79          | 0.08  | 28                 | 1000    | 1.054    |           |
| 67                    | 34021          | G6    | SC Bayonet       | 5000                 | 50.27         | 0.69  | 14                 | 1000    | 1.44     |           |
| 68                    | 34067          | G6    | DC Bayonet       | 5000                 | 50.27         | 0.59  | 14                 | 1000    | 1.44     |           |
| 6PSB                  | 32803          | T2    | Slide Base # 5   | 20000                |               | 0.14  | 6                  | 1000    | 1.11     |           |
| 73                    | 34091          | T1.75 | W2.1x4.9D        | 15000                | 3.77          | 0.08  | 14                 | 1000    | 0.8      |           |
| 7327 BIPIN T1 3/4     | 38289          | T1.75 | Bipin            | 4000                 | 4.27          | 0.04  | 28                 | 1000    | 0.63     | 10        |
| 7371                  | 38379          | T1.75 | Bipin            | 20000                | 1.25          | 0.04  | 12                 | 1000    | 0.63     |           |
| 7382                  | 38417          | T1.75 | Bipin            | 15000                | 3.76          | 0.08  | 14                 | 1000    | 0.63     |           |
| 7511 P21W 24V21W      | 39361          | S8    | BAY15S           | 150                  | 464.95        | 0.88  | 24                 | 200     | 2.095    |           |
| 755                   | 35763          | T3.25 | Mini Bayonet     | 20000                | 4.15          | 0.15  | 6                  | 1000    | 0.94     |           |
| 755                   | 35763          | T3.25 | Mini Bayonet     | 20000                | 4.15          | 0.15  | 6                  | 1000    | 0.94     |           |
| 756                   | 35771          | T3.25 | Mini Bayonet     | 15000                | 3.90          | 0.08  | 14                 | 1000    | 1.06     |           |
| 757                   | 35781          | T3.25 | Mini Bayonet     | 7500                 | 7.79          | 0.08  | 28                 | 1000    | 1.06     |           |
| 85                    | 34179          | T1.75 | W2.1x4.9D        | 7000                 | 3.77          | 0.04  | 28                 | 1000    | 0.8      |           |
| 86                    | 34201          | T1.75 | W2.1x4.9D        | 20000                | 5.03          | 0.2   | 6                  | 1000    | 0.8      |           |
| 88                    | 34219          | S8    | DC Bayonet       | 300                  | 188.50        | 1.91  | 7                  | 1000    | 2        |           |
| 89                    | 34233          | G6    | SC Bayonet       | 750                  | 75.40         | 0.58  | 13                 | 1000    | 1.44     |           |
| 90                    | 34271          | G6    | DC Bayonet       | 750                  | 75.40         | 0.58  | 13                 | 1000    | 1.44     |           |
| 90MB                  | 34299          | T2.5  | Mini Bayonet     | 5000                 | 4.67          | 0.03  | 90                 | 1000    | 1.19     |           |

MINIATURE

## MINIATURE & AUTOMOTIVE LAMPS

| Ordering Abbreviation | Product Number | Bulb  | Base            | Avg Rated Life (hrs) | Approx Lumens | Amps | Design Voltage (V) | Pkg Qty | MOL (in) | Footnotes |
|-----------------------|----------------|-------|-----------------|----------------------|---------------|------|--------------------|---------|----------|-----------|
| 912                   | 35869          | T5    | W2.1x9.2D       | 1000                 | 150.80        | 1    | 13                 | 500     | 1.49     |           |
| 918                   | 35923          | T5    | W2.1x9.2D       | 500                  | 81.62         | 0.54 | 13                 | 500     | 1.49     |           |
| 918/2PK/RP 13V        | 35921          | T5    | W2.1x9.2D       | 500                  | 81.68         | 0.54 | 13                 | 12      | 1.49     |           |
| 93                    | 34311          | S8    | SC Bayonet      | 700                  | 188.50        | 1.04 | 13                 | 1000    | 2        |           |
| 93BL2PK 13V           | 16810          | S8    | SC Bayonet      | 700                  | 188.49        | 1.04 | 13                 | 24      | 1.8      |           |
| 94                    | 34337          | S8    | DC Bayonet      | 700                  | 187.87        | 1.04 | 13                 | 1000    | 2        |           |
| NE51 B1A              | 32427          | T3.25 | Mini Bayonet    | 25000                |               | 0.3  | 105                | 1000    |          | 11        |
| NE51H B2A             | 32429          | T3.25 | Mini Bayonet    | 25000                |               | 1.2  | 105                | 1000    |          | 11        |
| PR12                  | 38931          | B3.5  | SC Mini Flanged | 15                   | 37.69         | 0.5  | 6                  | 1000    | 1 1/4    |           |
| PR13                  | 38939          | B3.5  | SC Mini Flanged | 15                   | 25.13         | 0.5  | 5                  | 1000    | 1 1/4    |           |
| PR2                   | 38891          | B3.5  | SC Mini Flanged | 15                   | 10.05         | 0.5  | 2                  | 1000    | 1 1/4    |           |
| PR3                   | 38901          | B3.5  | SC Mini Flanged | 15                   | 18.84         | 0.5  | 4                  | 1000    | 1 1/4    |           |
| PR4                   | 38911          | B3.5  | SC Mini Flanged | 10                   | 5.02          | 0.27 | 2                  | 1000    | 1 1/4    |           |
| PR6                   | 38917          | B3.5  | SC Mini Flanged | 30                   | 5.65          | 0.3  | 2                  | 1000    | 1 1/4    |           |
| SM2A PCS 30096        | 32249          | T2    | Solder Lugs     |                      |               |      |                    | 500     | 1.2      | 2,12,13   |

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## FOOTNOTES FOR MINIATURE LAMPS

| Footnote | Description  |
|----------|--|
| 1        | MOL = Excluding pins.  |
| 2        | Socket dimensions front to panel to end of terminals.  |
| 3        | UL File No. E31557(M) CSA File No.LR20904  |
| 4        | Universal lamp housings for T2.5 and T3.25 miniature bayonet based lamps.  |
| 5        | Universal lamp housings for T2 slide based pilot lamps.  |
| 6        | UL File No. E31557(M) CSA File No.LR20904  |
| 7        | Caution: Operates under pressure and may shatter. Use appropriate techniques to protect people and surroundings. Do not operate in close proximity to persons, combustible materials, or substances affected by heat or drying. Do not operate over 110% rated voltage because such operation increases pressure and lamps' tendency to shatter. Ultraviolet output may cause skin and eye irritation with prolonged exposure. Protect bulb from abrasions and scratches. Do not insert lamps when power is on. Follow operating instructions. |
| 8        | ECE Approved   |
| 9        | Lamp Life B3 @ 13.2 volts.   |
| 10       | There are two distinctively different lamps with this part number. When ordering T-1 3/4 , #7327, please also specify category and base type. S-11. #7327 discontinued.  |
| 11       | Material : Black Phenolic  |
| 12       | MIL-Std. 18236 B-MIL Std. 202B   |
| 13       | Material : Plastic   |

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## OSRAM SYLVANIA: THE LEADER IN ENERGY-SAVING UNDERSTANDING HIGH INTENSITY DISCHARGE LIGHTING

A brief description of the catalog format and related terminology will assist the reader in understanding the information presented in this section.

All product families are listed in ascending wattage, followed by alphabetical bulb designation to simplify lamp identification. Performance ratings are based on tests conducted under controlled conditions on AC circuits with auxiliary equipment meeting current published ANSI specifications.

Lamp performance under typical service conditions may vary from rated values. Ratings and specifications are subject to change without notice.

For more information on HID SYSTEM SOLUTIONS, refer to page 92.

### ANSI CODE

This is a unique code that describes the class and the electrical characteristics of the lamp and ballast as well as the fixture requirements. The code is developed and assigned by the American National Standards Institute (ANSI). The ANSI CODE consists of type of lamp (S = HPS, H = Mercury, M = Metal Halide, L = LPS), followed by the ballast number, and for metal halide lamps followed by the fixture requirement (O, E, S, F).

### ARC LENGTH

Arc length is the dimension of the arc discharge measured from one electrode tip to the other. This is useful for optical design of reflectors and affects fixture efficiency.

### AVERAGE LIFE (HOURS)

The average life of a lamp is based on vertical operation (unless otherwise noted) of representative lamps operated under controlled conditions of at least 10 hours per start (except for M1500 and Briteline lamps, which are based on 5 hours per start). Average life is defined as the total operation hours at which 50% (Median) of any group of lamps is still operating (except for most High Pressures Sodium and Mercury lamps, for which 65% of the lamps are operating at the end of life). Variations in operating conditions such as bulb and base temperatures and line voltage can also affect lamp life.

Regular operation of lamps with off times less than 15 minutes will shorten the life of the lamp. Operating cycles shorter than 10 hours per start will reduce lamp life as follows:

- 5 hours / start - Approximately 75% of rating
- 2.5 hours / start - Approximately 55% of rating
- 1.25 hours / start - Approximately 40% of rating

### BASE

Most SYLVANIA HID lamp bases for general lighting are made of corrosion-resistant brass with special lubricant to provide easy removal at end of lamp life. See the following pages for all base illustrations.

**E26 Medium** - Medium (MED) bases are used on lamps in E17 bulbs and are limited to 175W maximum.

**E26 Medium Skirted** - Medium skirted (Med. Skt.) bases consist of a medium brass base with a skirt, which is mechanically connected to a PAR38 bulb.

**E39 Mogul** - All (MOG) bases are embossed with letters and numbers representing months and years. The date of installation can be recorded by marking the letter of the current month and the number that coincides with the last digit of the current year.

**EX39 Exclusionary Mogul Base** - Exclusionary Mogul bases (EXCL MOG) are bases used on metal halide lamps having shrouded arc tubes, permitting them to be used in open fixture applications. These bases are compatible with exclusionary or standard mogul sockets.

**E39 POM** - Position Oriented Mogul (POM) bases are used on lamps designed to operate only in the horizontal position and require a special POM socket. A pin located on the base engages in a slot within the POM socket ensuring proper operating position of the lamp within the fixture.

**Rx7s / R7s Recessed Single Contact** - SYLVANIA double-ended HID lamps with recessed single contact (RSC) bases have silver plated contacts to provide maximum electrical contact.

### BULB

Each bulb description consists of a letter to indicate bulb shape, followed by numbers that indicate maximum bulb diameter in 1/8 inch increments. For example, a BT37 bulb is a blown shape with a tubular top, 37/8 of an inch or 4 5/8 inches in diameter. Illustrations of bulb shapes are shown on the following pages.

Although SYLVANIA HID bulbs are made of glass designed to resist thermal shock in normal applications, they must be shielded from direct contact with liquids, such as rain, during operation to avoid bulb breakage.

### COLOR RENDERING INDEX (CRI)

Color Rendering Index (CRI) is an international scale (numbering system) up to 100 indicating the relative color rendering quality of a light source when compared to a standard reference light source of the same chromaticity (color temperature). The CRI expresses the degree to which colors will appear "familiar" or "natural" under the light source selected. In general, the higher the CRI number, the better the color rendering properties of the light source being measured. The color rendering index of any two like sources should only be compared if those sources have the same correlated color temperature (CCT).

### CORRELATED COLOR TEMPERATURE (CCT)

The correlated color temperature of a light source, expressed in Kelvin (K), is a means of describing the appearance or chromaticity of the source. The correlated color temperature of the light source contributes to the visual appearance of the lighted space. "Warm" light sources have a low color temperature (2000-3000K) and feature more light in the red/orange/yellow range. Light with a higher color temperature (>4000K) features more blue and is referred to as "cool."

With new installations, or group relamps, all color performance evaluations should be made after at least 100 hours of operation (at recommended operating cycles) to allow the lamps to stabilize. Additional changes in chemistry within the arc tube over the life of the lamp may also cause the color temperature to shift as the lamp gets closer to the end of its rated life. To minimize color variation within an installation, it is recommended that HID lamps be group relamped and run on equal operating cycles.

### DIMMING HID

Most SYLVANIA HID products can be dimmed on stepped, bi-level dimming systems provided specific guidelines are followed. Generally, most Metalarc® metal halide lamps can be dimmed down to 50% of rated wattage depending on the lamp type and operating position. Lumalux® high pressure sodium lamps can also be dimmed down to 50% of rated wattage. In addition to lower light output, HID lamps may shift in overall color and exhibit a lower color rendering index (CRI) when operated in a dimmed mode. Some restrictions apply to both the operation of the ballast and lamp. For more information on dimming, please reference NEMA guidelines or contact a SYLVANIA representative.

**UNDERSTANDING HIGH INTENSITY DISCHARGE LIGHTING (continued)**

**FIXTURE REQUIREMENT**

Developed by the American National Standard Institute (ANSI), the fixture requirement code describes the type of fixture required for each lamp type. See lamp warnings for additional information and proper operating instructions.

- E** = Lamps classified as E-type are to be used ONLY in suitably rated enclosed luminaires.
- O** = Lamps classified as O-type, comply with ANSI Standard C78.387 for containment testing and may be used in open luminaires.
- S** = When operated within 15 degrees of vertical, this lamp may be operated in an open luminaire provided the installation is not near people or flammable or combustible material, otherwise it must be operated in a suitably enclosed luminaire.
- F** = F-rated lamps require an enclosed fixture with a U.V filter and lens interlock.

**HOT RESTRIKE**

In most instances, if an HID lamp experiences a momentary power interruption or sudden voltage drop, the lamp may extinguish. A lamp that is still hot will not restart immediately. Because the arc tube within the lamp must cool down before it can re-start, HID lamps have hot restrike times ranging from 1-15 minutes depending on the product type.

**KEY TO DATE OF MANUFACTURE**

Consult your SYLVANIA Sales Representative or call 1-800-LIGHTBULB.

**ORDERING ABBREVIATION**

Ordering abbreviation provides a shorthand description of the lamp, using a unique code which can be used when ordering a lamp if you do not know the product number. This information can be found on the lamp etch.

**PACKAGE QUANTITY**

This identifies the number of lamps contained in a standard shipping carton.

**PRODUCT NUMBER**

Product number is a five digit number used to identify a specific SYLVANIA lamp and should be used when ordering.

**LIGHT CENTER LENGTH (LCL)**

The light center length of HID lamps is a measurement from the center of the arc tube to the bottom of the lamp base.

**LUMENS**

Initial lumen ratings are based on photometry under controlled conditions of at least 10 hours per start in the prescribed position at rated lamp wattage after 100 operating hours. HQI®, Lumalux® Super and SOX lamp ratings are based on measurements at constant input voltage. Lamp performance under typical service conditions may vary from rated values. Operating universal Metalarc® lamps in off-vertical positions will result in reduced lumen output.

Mean lumens are measured on ANSI reference circuits at rated wattage (HQI, Lumalux Super and SOX lamp ratings are based on input voltage) at 40% of average rated life except for those lamps with a "+" next to their life rating; these lamps are measured at 50% of average rated life. All measurements are based on ballast operation on systems with current crest factors of 1.8 or less. Higher current crest factors reduce values. In actual applications on CW or CWA ballasts, mean lumens may be higher than published ratings.

Unless otherwise noted, all photometry measurements are made on an ANSI reference ballast at rated lamp wattage.

**MAXIMUM OVERALL LENGTH (MOL)**

The maximum overall length of single-ended lamps is the maximum distance from the top of the bulb to the bottom of the base. For double-ended lamps, it is the maximum distance from end-to-end (excluding any lead-wires).

**WARM UP TIME**

Most HID lamps do not have instant on capabilities. It may take several minutes for the arc tube to stabilize before optimal light output is achieved.

**WATTS**

Watts shown are nominal lamp watts only.

**HOW TO READ PRODUCT INFORMATION - HID**

| Watts      | Bulb | Base            | Product Number | Ordering Abbreviation | ANSI Ballast No  | Pkg Qty | Lamp Finish | Operating Position      | Fix Req | Avg Rated Life(hrs) | Approx Lumens (initial) | (mean)         | CRI | CCT (K) | Symbols & Footnotes |
|------------|------|-----------------|----------------|-----------------------|------------------|---------|-------------|-------------------------|---------|---------------------|-------------------------|----------------|-----|---------|---------------------|
| 100        | E17  | E26 Med         | 67506          | LU100/MED             | S54              | 20      | Clear       | Universal               | O       | 24000+              | 9500                    | 8000           | 22  | 2100    | 5,34                |
| 250        | BT28 | E39 Mogul       | 64578          | MS250/PS/BU-ONLY      | M153/E           | 6       | Clear       | Base up within 15° only | E       | 20000               | 23500                   | 19000          | 65  | 4200    | 1,4,11,12           |
| 350<br>400 | BT37 | EX39 Excl Mogul | 64769*         | MP350/400/PS/BU-ONLY  | M131/O<br>M155/O | 6       | Clear       | Base up within 15° only | O       | 20000               | 34000<br>40000          | 24500<br>29500 | 65  | 3700    | * 4,5,12,14<br>3500 |
| 1000       | BT56 | EX39 Excl Mogul | 64714          | MP1000/BU-ONLY        | M47/O            | 6       | Clear       | Base up within 15° only | O       | 12000               | 107000                  | 85500          | 65  | 3500    | 5,8,12              |

Please refer to the "Understanding High Intensity Discharge" section on previous pages for definitions and explanations of the category headers.

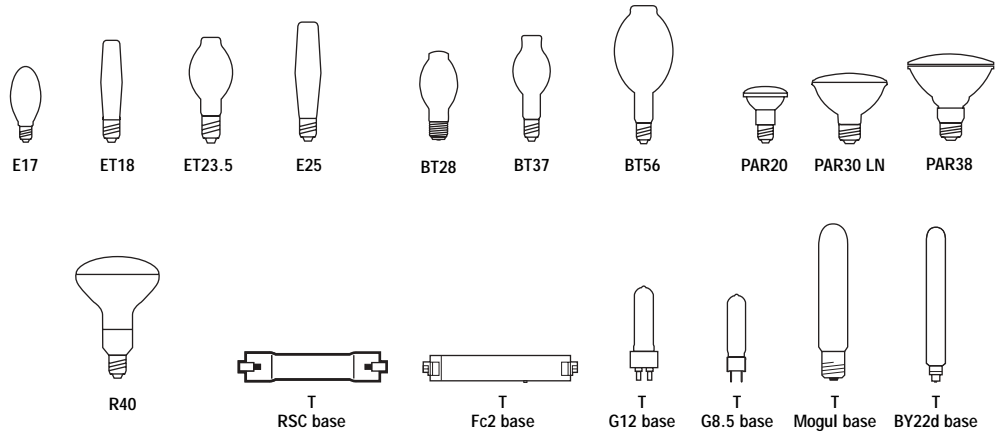
**HOW TO READ ORDERING ABBREVIATIONS**

| MS400PS/BU-ONLY |                                  | MP70PAR38/U/SP20/ECO |                    | LU100/D/MED |             | H38BP-100/DX |                     |
|-----------------|----------------------------------|----------------------|--------------------|-------------|-------------|--------------|---------------------|
| MS              | Super Metalarc                   | MP                   | Metalarc Pro-Tech  | LU          | Lumalux®    | H38BP        | ANSI Ballast Number |
| 400             | Wattage                          | 70                   | Wattage            | 100         | Wattage     | 100          | Wattage             |
| PS              | Pulse Start                      | PAR38                | Bulb Type          | D           | Coated      | DX           | Brite White         |
| BU ONLY         | Operating Position: Base up only | U                    | Operating Position | MED         | Medium Base |              | Deluxe Coated       |
|                 |                                  | SP20                 | Beam Type/Angle    |             |             |              |                     |
|                 |                                  | ECO                  | Ecologic           |             |             |              |                     |

H I D

## BULBS

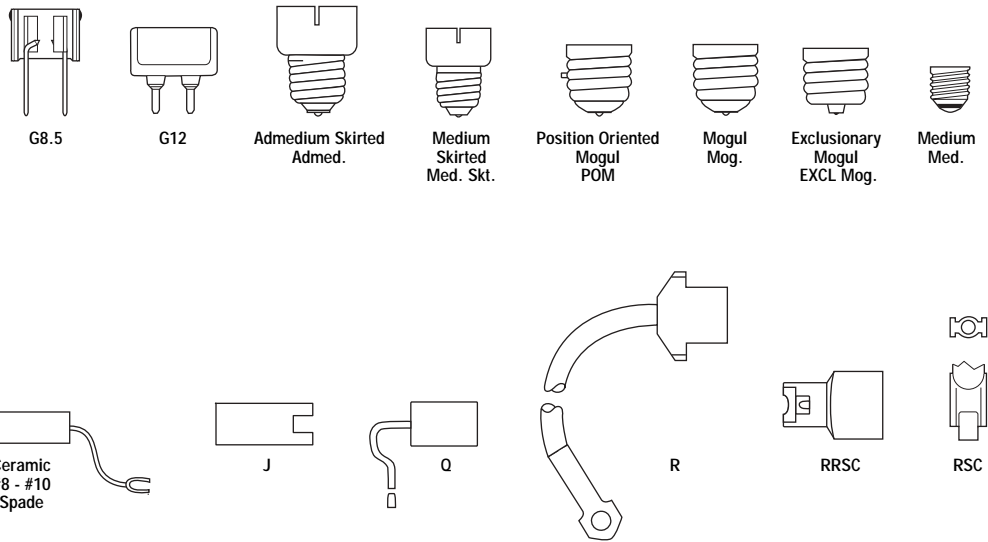
A bulb designation consists of a letter(s) to indicate the shape and a number(s) to indicate the approximate maximum diameter in eighths of an inch. Thus, an E17 lamp is an Ellipsoidal shape and 17/8 of an inch or 2 1/8 inches in diameter. Other letter designations include: BT=Bulbous Tubular; E or ED=Ellipsoidal; ET=Ellipsoidal Tubular; PAR=Parabolic; R=Reflector; T=Tubular.



## BASES

Lamps with screw bases have one lead-in wire soldered or welded to the center contact and the other soldered or welded to the upper rim of the base shell.

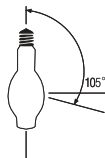
Bases with ceramic bodies have internal leads welded to either silver-plated contacts or external lead wires.



## OPERATING POSITIONS

A designated operating positions assure maximum lamp performance. Where it is not specified, the lamp is suitable for operation in any position.

**Vertical BU-HOR**



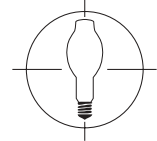
**Vertical BD-ONLY**



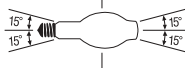
**Vertical BU-ONLY**



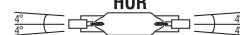
**Universal U**



**Horizontal HOR**



**Double Ended HOR**





# Interlight Specialty Bulbs

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## HID BRAND NAME GUIDE

Note: These tables are intended only as guides and may represent another lamp company's most similar product or product family rather than an identical match. Individual manufacturer's performance values should be consulted.

| SYLVANIA             | GE *                               | PHILIPS **                    |
|----------------------|------------------------------------|-------------------------------|
| Metalarc®            | Multi-Vapor                        | Metal Halide                  |
| Metalarc Ceramic     | ConstantColor CMH                  | Master Color                  |
| Metalarc Pro-Tech®   | Protected Multi-Vapor              | Protected Metal Halide        |
| Super Metalarc       | High Output Multi-Vapor            | Metal Halide                  |
| Metalarc Pulse Start | PulseArc Multi-Vapor               | Pulse Start Metal Halide      |
| Metalarc Super Saver | Watt-Miser High Output Multi-Vapor | Metal Halide                  |
| Metalarc Briteline   | Arcstream                          | Double-Ended Metal Halide     |
| HQI®                 | Arcstream                          | Double-Ended Metal Halide     |
| Metalarc Safeline®   | Saf-T-Gard Multi-Vapor             | Safety Lifeguard Metal Halide |

\*Trademark or registered trademark of General Electric Company.

| SYLVANIA                   | GE *                    | PHILIPS **                     |
|----------------------------|-------------------------|--------------------------------|
| Mercury Safeline           | Saf-T-Gard Mercury      | Safety Lifeguard Mercury Vapor |
| Lumalux®                   | Lucalox                 | Ceramalux HPS                  |
| Lumalux / ECO®             | Ecolux                  | Ceramalux ALTO                 |
| Lumalux Plus® / ECO        | Ecolux NC               | Ceramalux ALTO Plus            |
| Lumalux Mercury Free / ECO | -----                   | -----                          |
| Lumalux Standby            | Lucalox Standby XL      | Instant Restrike Ceramalux     |
| Unalux®                    | E-Z Lux                 | Ceramalux RetroLux             |
| SOX Low Pressure Sodium    | SOX Low Pressure Sodium | SOX Low Pressure Sodium        |

\*\*Trademark or registered trademark of Philips.

## PHYSICAL DIMENSIONS

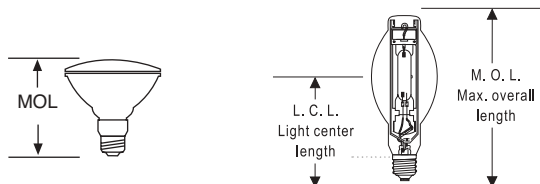
| BRITELINE   | PHYSICAL SIZE (dimensions in mm) |     |
|-------------|----------------------------------|-----|
| Bulb        | LCL                              | MOL |
| T7 (15000W) | 127                              | 256 |
| T8          | 127                              | 254 |
| T9          | 127                              | 254 |

| HQI       | PHYSICAL SIZE (dimensions in mm) |     |
|-----------|----------------------------------|-----|
| Bulb      | LCL                              | MOL |
| T6        | 57                               | 114 |
| T7 (150W) | 66                               | 132 |
| T7.5      | 56                               | 84  |
| T9.5      | 81                               | 163 |
| T14.5     | 150                              | 225 |
| BT        | 175                              | 285 |

| MERCURY VAPOR | PHYSICAL SIZE (dimensions in inches) |        |
|---------------|--------------------------------------|--------|
| Bulb          | LCL                                  | MOL    |
| T16           | 7                                    | 11     |
| E17           | 3 3/4                                | 5 7/16 |
| ET23.5        | 5                                    | 7 1/2  |
| BT28/ED28     | 5                                    | 8 5/16 |
| BT37/ED37     | 7                                    | 11 1/2 |
| BT56          | 9 1/2                                | 15 3/8 |
| PAR38         | --                                   | 5 7/16 |
| R40           | --                                   | 7 1/2  |

| METALARC METAL HALIDE   | PHYSICAL SIZE (dimensions in inches) |         |
|---|--------------------------------------|---------|
| Bulb  | LCL                                  | MOL     |
| Physical size of Metalarc, Metalarc Ceramic, Super Metalarc & Metalarc Pro-Tech lamps |                                      |         |
| T4.5  | 2                                    | 3 1/32  |
| E17/ED17  | 3 13/32                              | 5 7/16  |
| ED18/ET18   | 5 3/4                                | 9 3/4   |
| BT28/ED28   | 5                                    | 8 5/16  |
| BT37/ED37   | 7                                    | 11 1/2  |
| BT56  | 9 1/2                                | 15 3/8  |
| T6 (39, 70W)  | 2 7/32                               | 3 13/16 |
| T6 (150W)   | 2 7/32                               | 4 1/8   |
| T7.5  | 2 7/32                               | 4 1/8   |
| PAR20   | --                                   | 3 17/32 |
| PAR30LN   | --                                   | 4 3/4   |
| PAR38   | --                                   | 5 5/16  |

| LUMALUX HIGH PRESSURE SODIUM                  | PHYSICAL SIZE (dimensions in inches) |          |
|---|--------------------------------------|----------|
| Bulb  | LCL                                  | MOL      |
| Physical size of all Lumalux and Unalux lamps |                                      |          |
| T7  | 5                                    | 10 1/16  |
| T16   | 6 7/8                                | 11 13/16 |
| E17   | 3 7/16                               | 5 7/16   |
| ET18  | 5 3/4                                | 9 3/4    |
| ET23.5  | 5                                    | 7 3/4    |
| E25   | 8 3/4                                | 15 1/16  |
| BT28/ED28                                     | 5                                    | 8 21/32  |
| BT37/ED37                                     | 7                                    | 11 1/2   |



## HID LAMP COLORS CORRELATED COLOR TEMPERATURE AND COLOR RENDERING INDEX

Please refer to the "Understanding High Intensity Discharge" section for additional information.

| LAMP TYPE            | COLOR TEMPERATURE  | CRI         |       |
|----------------------|--|-------------|-------|
| MERCURY              | Brite White Deluxe (coated)  | 4000K       | 45    |
|                      | Clear  | 5900K       | 20    |
| METAL HALIDE         | Metalarc®, Metalarc Ceramic, Super Metalarc, & HQI® Lamps                |             |       |
|                      | <i>See individual product listing for color temperature and CRI data</i> |             |       |
| HIGH PRESSURE SODIUM | Lumalux® (clear)   | 1900K-2200K | 20-22 |
|                      | Lumalux (coated)   | 1900K-2100K | 20-22 |
|                      | Unalux® (clear)  | 1800K-2100K | 20    |
| LOW PRESSURE SODIUM  | SOX (clear)  | 1800K       | -45-0 |

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The following item was accepted into the 2003 IESNA Progress Report which recognizes innovative products introduced to the industry during that year.

150-watt METALARC POWERBALL® CERAMIC

For weight and measure information, please visit [www.sylvania.com](http://www.sylvania.com)

For more information about HID lamp warranties, please visit the warranty section of this catalog.

### Lamp Disposal Labeling

The following information appears on the packages of high intensity discharge lamps that contain mercury. For more information on lamp disposal labeling, see the inside back cover of this catalog.

**(Hg) Lamp Contains Mercury**

Manage in accordance with disposal laws

See [www.lamprecycle.org](http://www.lamprecycle.org) or 1-866-666-6850

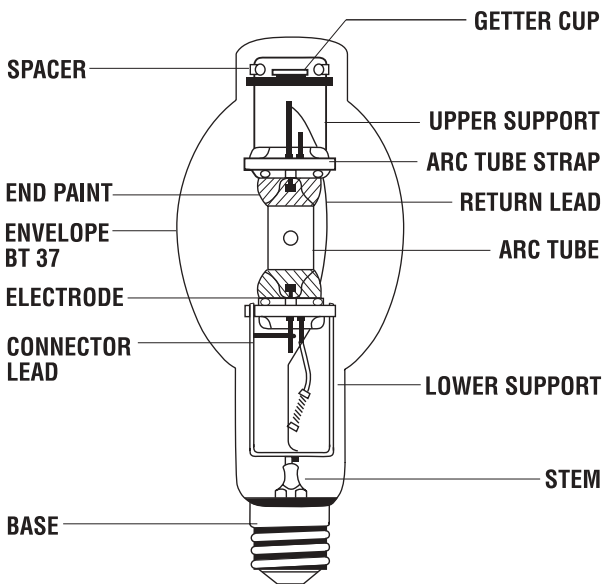
### LAMP WARNINGS:

HID Metal Halide and Mercury lamps are marked with a "T" or "R" on their packaging. These letters provide safety information about the lamp. Below is the text used by the FDA to describe each of the letters.

**T: WARNING:** This lamp should self-extinguish within 15 minutes after the outer envelope is broken or punctured. If such damage occurs, TURN OFF AND REMOVE LAMP to avoid possible injury from hazardous shortwave ultraviolet radiation.

**R: WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

**GUIDE TO METAL HALIDE LAMPS**



OSRAM SYLVANIA currently offers ten families of Metal Halide lamps: Standard METALARC®, COMPACT METALARC, SUPER METALARC, METALARC PRO-TECH®, METALARC POWERBALL® CERAMIC, METALARC PULSE START, METALARC SUPER SAVER, METALARC BRITELINE, METALARC SAFELINE®, and HQI®. These lamps are designed for general lighting applications such as commercial, industrial lighting and outdoor floodlighting where good color and high efficiency are desired.

**STANDARD METALARC(M)** — Offered in a range of wattages (from 175-1500 watts), standard Metalarc metal halide lamps allow for design flexibility with multiple light source solutions to choose from. Metalarc lamps have significantly higher efficacy than mercury vapor or incandescent products and considerably better CRI than mercury vapor and high pressure sodium lamps.

**COMPACT METALARC(M)** — These lamps have reduced outer jacket sizes compared to standard metal halide lamps for use in smaller fixtures. The reduced bulb diameter allows fixture manufacturers to design more versatile, less expensive and highly efficient luminaires.

**SUPER METALARC(MS)** — Super Metalarc lamps are position dedicated, which means that they are specifically designed to be run in particular operating positions.

Because of this feature, these lamps exhibit improved performance over standard, universal operating metal halide lamps of similar wattage. Product features include long life, higher maintained lumens and increased efficacy.

**METALARC PRO-TECH(MP)** — These are specially designed lamps that incorporate a protective shroud to contain an arc tube rupture. Metalarc Pro-Tech lamps can be used in open or enclosed fixtures. Dedicated bases are available on both low and high wattage lamp types.

**METALARC POWERBALL CERAMIC(MC or MCP)** — These lamps meet today's color critical needs by combining conventional metal halide pulse start characteristics with improved lamp-to-lamp color consistency and high CRI (>85). Most OSRAM SYLVANIA POWERBALL lamps use a patented rounded arc tube shape, which allows for a more uniform temperature and improved color consistency. Lamp types include clear and coated single-ended high and low wattage lamps, along with double ended and PAR configurations.

**METALARC PULSE START(M/PS)** — Metalarc Pulse Start lamps utilize metal halide performance with proven ignitor technology for longer life, improved lumen maintenance and reduced color shift over lamp life compared to standard metal halide products. Lamp configurations include low and high wattage types, both clear and coated. Metalarc Pro-Tech designs are also available for open fixture applications.

**METALARC SUPERSAVER(M/SS)**— Constructed with an enhanced arc tube for peak performance, Metalarc Super Saver lamps are designed as energy-saving, replacement metal halide lamps. The 360W Super Saver lamp is a direct retrofit for existing 400W products and the 150W Super Saver replaces 175 W lamps -- no ballast change is required.

**METALARC BRITELINE(M)** — These double-ended lamps are designed for compact fixtures, which provide excellent optical control and high efficiency. These higher wattage lamps are particularly well suited for sports lighting and outdoor floodlighting applications.

**METALARC SAFELINE(MT)** — Metalarc Safeline lamps are designed to self-extinguish when the outer bulb is broken reducing exposure to possible ultraviolet radiation. These lamps are recommended for use in sports facilities and other places of public assembly where the lamps may be subject to breakage by external objects.

**HQI** — With their compact size and very short arc length, HQI metal halide lamps allow luminaire manufacturers to design highly efficient fixtures using proven quartz arc tube technology. The high color rendering, white light, compact size, long life and high efficacy make these lamps ideal for color critical applications.

Enclosed fixture rated METALARC®, E-Type Lamp

R



ANSI Luminaire Code E  
ENCLOSED FIXTURE

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed of an outer glass bulb with an internal arc-tube. Metal Halide arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2192°F, 1200°C for a ceramic arc tube and 2012°F, 1100°C for quartz). If you are uncertain, contact your fixture manufacturer.
2. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
3. Only operate lamp in designated operating positions. (See catalog for illustration.)
4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
5. Never expose an operating lamp to moisture (such as rain, sleet or snow).
6. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
7. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
8. Replace lamp at or before the end of rated life. (See catalog for rated life.)

FOR APPLICATIONS WHERE AN ADDITIONAL MEASURE OF SAFETY IS DESIRED, LAMPS USING AN INTERNAL SHIELD DESIGNED TO CONTAIN AN ARC-TUBE RUPTURE ARE AVAILABLE.

- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

III. **ULTRAVIOLET RADIATION EXPOSURE:**

WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381

IV. **LAMP INSTALLATION:**

1. Screw lamp firmly but not forcibly into socket to avoid breakage.
2. All horizontal lamps with position oriented mogul (POM) bases (with locating pin) require a POM socket. Do not remove pin from base.
3. All pulse start lamps require a socket rated to withstand a 4000 volt pulse.
4. Never install the lamp into an ordinary household socket.

- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

Enclosed fixture rated METALARC® E-Type (Ceramic & Quartz, G12, G8.5 & DE, UV-Stop Outer-jacket) Lamp

R



ANSI Luminaire Code E  
ENCLOSED FIXTURE

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed of an outer glass bulb with an internal ceramic or quartz arc-tube. Metal Halide arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2192°F, 1200°C for a ceramic arc-tube and 2012°F, 1100°C for quartz). If you are uncertain, contact your fixture manufacturer.
  2. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
  3. Only operate lamp in designated operating positions. (See catalog for illustration.)
  4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
  5. Never expose operating lamp to moisture (such as rain, sleet or snow).
  6. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
  7. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
  8. Replace lamp at or before the end of rated life. (See catalog for rated life.)
- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.
- III. **ULTRAVIOLET RADIATION EXPOSURE:**  
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381
- IV. **LAMP INSTALLATION:**
1. Ensure that lamp is securely seated in the socket.
  2. If lamp is touched with bare hands, clean fingerprints off with alcohol and wipe dry with clean, lint-free cloth.
  3. All sockets must be rated to withstand the maximum pulse voltage output of the ballast.
  4. Never install the lamp into an ordinary household socket or a fixture intended for tungsten halogen lamps.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

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Open Fixture Rated, METALARC PRO-TECH®, O-Type Lamp

R



ANSI Luminaire Code O  
OPEN FIXTURE permissible

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed of an outer glass bulb with an internal arc-tube. Metal Halide arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate with compatible ballast and fixture. (See catalog for specific information.)
2. Only operate lamp in designated operating positions. (See catalog for illustration.)
3. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
4. Never expose operating lamp to moisture (such as rain, sleet or snow).
5. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
6. Electrically insulate any metal support in contact with the outer glass bulb to avoid glass decomposition.
7. Replace lamp at or before the end of rated life. (See catalog for rated life.)

This lamp is intended for use in open fixtures since it contains a special shield which was designed to contain a ruptured arc-tube and thereby minimize the resultant risks of personal injury, property damage, burns and fire. In applications where an additional measure of safety is desired, an enclosed fixture may be used with a lens/diffuser material able to contain hot lamp fragments (up to 2192°F, 1200°C for a ceramic arc tube and 2012°F, 1100°C for quartz). If you are uncertain, contact your fixture manufacturer.

- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

**III. ULTRAVIOLET RADIATION EXPOSURE:**

**WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381

**IV. LAMP INSTALLATION:**

1. Screw lamp firmly but not forcibly into socket to avoid breakage.
2. All pulse start lamps require a socket rated to withstand a 4000 volt pulse.
3. Never install the lamp into an ordinary household socket.

- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

H  
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D

METALARC®, S-Type Lamp

R



ANSI Luminaire Code S  
ENCLOSED FIXTURE/Open if meets  
requirement of Paragraph I.1 below

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed of an outer glass bulb with an internal arc-tube. Metal Halide arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2012°F, 1100°C). If you are uncertain, contact your fixture manufacturer. When operated within 15° of vertical, this lamp may be operated in an open fixture PROVIDED THE INSTALLATION IS NOT NEAR PEOPLE OR FLAMMABLE OR COMBUSTIBLE MATERIAL.
2. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
3. Only operate lamp in designated operating positions. (See catalog for illustration.)
4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
5. Never expose an operating lamp to moisture (such as rain, sleet or snow).
6. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
7. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
8. Replace lamp at or before the end of rated life. (See catalog for rated life.)

FOR APPLICATIONS WHERE AN ADDITIONAL MEASURE OF SAFETY IS DESIRED, LAMPS USING AN INTERNAL SHIELD DESIGNED TO CONTAIN AN ARC-TUBE RUPTURE ARE AVAILABLE.

- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

III. **ULTRAVIOLET RADIATION EXPOSURE:**

WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381

IV. **LAMP INSTALLATION:**

1. Screw lamp firmly but not forcibly into socket to avoid breakage.
2. All horizontal lamps with position oriented mogul (POM) bases (with locating pin) require a POM socket. Do not remove pin from base.
3. All pulse start lamps require a socket rated to withstand a 4000 volt pulse.
4. Never install the lamp into an ordinary household socket.

- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

METALARC® SAFELINE®, S-Type Lamp

T



ANSI Luminaire Code S  
ENCLOSED FIXTURE/Open if meets  
requirement of Paragraph I.1 below

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed of an outer glass bulb with an internal arc-tube. Metal Halide arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2012°F, 1100°C). If you are uncertain, contact your fixture manufacturer. When operated within 15° of vertical, this lamp may be operated in an open fixture PROVIDED THE INSTALLATION IS NOT NEAR PEOPLE OR FLAMMABLE OR COMBUSTIBLE MATERIAL.
2. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
3. Only operate lamp in designated operating positions. (See catalog for illustration.)
4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
5. Never expose an operating lamp to moisture (such as rain, sleet or snow).
6. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
7. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
8. Replace lamp at or before the end of rated life. (See catalog for rated life.)

FOR APPLICATIONS WHERE AN ADDITIONAL MEASURE OF SAFETY IS DESIRED, LAMPS USING AN INTERNAL SHIELD DESIGNED TO CONTAIN AN ARC-TUBE RUPTURE ARE AVAILABLE.

- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.
- III. **ULTRAVIOLET RADIATION EXPOSURE:** This lamp should self-extinguish within 15 minutes after the outer envelope is broken or punctured. If such damage occurs, **TURN OFF AND REMOVE LAMP** to avoid possible injury from hazardous shortwave ultraviolet radiation. This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381
- IV. **LAMP INSTALLATION:**
1. Screw lamp firmly but not forcibly into socket to avoid breakage.
  2. Never install the lamp into an ordinary household socket.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.



METALARC® BRITELINE, F-Type Lamp



ANSI Luminaire Code F  
ENCLOSED FIXTURE with UV  
filter and lens interlock required

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Metal Halide lamp is constructed with a quartz arc-tube which operates at high pressure and at very high temperatures. The arc-tube can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

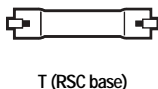
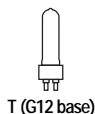
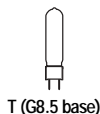
1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2012°F, 1100°C). If you are uncertain, contact your fixture manufacturer.
2. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
3. Only operate lamp in horizontal position. (See catalog for allowable deviation from horizontal.)
4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
5. Never expose operating lamp to moisture (such as rain, sleet or snow).
6. Replace lamp if bulb is scratched, cracked or damaged in any way.
7. Keep all metals at least 3 inches from the body of the arc tube to avoid glass decomposition.
8. Replace lamp at or before the end of rated life. (See catalog for rated life.)

- II. **ULTRAVIOLET RADIATION HAZARD:** THIS LAMP EMITS ULTRAVIOLET (UV) POWER DURING OPERATION AND IS IN RISK GROUP 3 PER ANSI-IESNA Rp-27.3-96. THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INJURY FROM SHORTWAVE ULTRAVIOLET RADIATION. IT **MUST** BE OPERATED IN AN ENCLOSED FIXTURE WHICH FILTERS OUT THE HARMFUL SHORTWAVE ULTRAVIOLET RADIATION. IF YOU ARE UNCERTAIN, CONTACT YOUR FIXTURE MANUFACTURER.

A power interlock device is required to automatically turn off the lamp if the fixture assembly is opened. It is strongly recommended that a power interlock device also turn off power to the lamp if the fixture lens is broken. If the fixture lens breaks and the lamp remains on, turn off power immediately and repair before re-energizing.

This lamp is to be used **ONLY** in a fixture specifically designed for use with this lamp and recommended for its use by the equipment manufacturer.

- III. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. Allow lamp to cool before removing.
- IV. **LAMP INSTALLATION AND FIXTURE:** Do not remove lamp from package until ready for use and then handle only with clean cotton gloves. If lamp is handled, fingerprints, grease or oils may be removed from the bulb by wiping with alcohol. This will remove materials which cause whitish spotting (devitrification) and premature lamp failure. Dry lamp carefully with clean cotton cloth.
1. Install lamp without undue pressure.
  2. Ensure that lamp electrical connections are secure and nothing is touching bulb.
  3. All seal gaskets and wire insulation must be shielded from the UV radiation produced by this lamp.
  4. Fixture wiring must have a temperature rating of 250° C and a minimum voltage rating of 600 V RMS for all lamps except the 1500T7 lamp which must have a voltage rating of 1500V RMS.
  5. For maximum performance, all double-ended lamps must be operated with the arc-tube tip up.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.



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## METALARC® METAL HALIDE

### METALARC POWERBALL® CERAMIC

High CRI, Pulse Start, UV Stop – Enclosed Fixtures Only

| Watts | Bulb    | Base | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|---------|------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 39    | T4.5    | G8.5 | 64791          | MC39TCU/G8.5/830      | M130/E    | 12      | Clear       | Universal          | E       | 9000                 | 3300                    | 2640   | 82  | 3000    | ☑ 1,2,3,4,5         |
|       | T6      | G12  | 64363          | MC39T6U/G12/830       | M130/E    | 12      | Clear       | Universal          | E       | 9000                 | 3400                    | 2720   | 82  | 3000    | ☑ 1,2,3,4,5         |
| 70    | T4.5    | G8.5 | 64792          | MC70TCU/G8.5/830      | M139/E    | 12      | Clear       | Universal          | E       | 9000                 | 6600                    | 5280   | 83  | 3000    | ☑ 1,2,3,4,5,6       |
|       | T6      | G12  | 64361          | MC70T6U/G12/830       | M139/E    | 12      | Clear       | Universal          | E       | 9000                 | 6700                    | 5360   | 87  | 3000    | ☑ 1,2,3,4,5,6       |
|       |         |      | 64338          | MC70T6U/G12/940       | M139/E    | 12      | Clear       | Universal          | E       | 9000                 | 5800                    | 4640   | 90  | 4200    | ☑ 1,2,3,4,5,6       |
|       | R7S RSC |      | 64793          | MC70T6/DE/830         | M139/E    | 12      | Clear       | HOR ± 45°          | E       | 12000                | 6600                    | 5120   | 88  | 3000    | ☑ 1,2,4,5,6,7       |
| 150   | T6      | G12  | 64337          | MC150T6U/G12/940      | M102/E    | 12      | Clear       | Universal          | E       | 9000                 | 12700                   | 10160  | 90  | 4200    | ☑ 1,2,3,5,8         |
|       | T7.5    | G12  | 64359          | MC150T7.5/G12U/830    | M102/E    | 12      | Clear       | Universal          | E       | 9000                 | 14500                   | 11600  | 89  | 3000    | ☑ 1,2,3,5,8         |
|       | R7S RSC |      | 64794          | MC150T7.5/DE/830      | M102/E    | 12      | Clear       | HOR ± 45°          | E       | 12000                | 14800                   | 11840  | 91  | 3000    | ☑ 1,2,5,9           |

### METALARC POWERBALL CERAMIC

High CRI, Pulse Start, UV Stop – Open or Enclosed Fixtures

| Watts | Bulb | Base            | Product Number | Ordering Abbreviation  | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------------|----------------|------------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 70    | E17  | E26 Med         | 64739          | MCP70U/MED/830         | M139/O    | 12      | Clear       | Universal          | O       | 12000                | 5900                    | 4700   | 88  | 3000    | ☑ 1,5,6,10,11       |
|       |      |                 | 64740          | MCP70C/U/MED/830       | M139/O    | 12      | Coated      | Universal          | O       | 12000                | 5500                    | 4400   | 88  | 3000    | ☑ 1,5,6,10,11       |
| 100   | E17  | E26 Med         | 64743          | MCP100U/MED/830        | M90/O     | 12      | Clear       | Universal          | O       | 12000                | 9000                    | 7200   | 85  | 3000    | ☑ 1,5,10,11,12      |
|       |      |                 | 64744          | MCP100C/U/MED/830      | M90/O     | 12      | Coated      | Universal          | O       | 12000                | 8500                    | 6900   | 85  | 3000    | ☑ 1,5,10,11,12      |
| 150   | E17  | E26 Med         | 64741☼         | MCP150U/MED/830        | M102/O    | 12      | Clear       | Universal          | O       | 12000                | 13000                   | 11000  | 89  | 3000    | ☑ 1,5,8,10,11       |
|       |      |                 | 64742☼         | MCP150C/U/MED/830      | M102/O    | 12      | Coated      | Universal          | O       | 12000                | 12000                   | 10000  | 89  | 3000    | ☑ 1,5,8,10,11       |
| 250   | BT28 | EX39 Excl Mogul | 64786☼         | MCP250/PS/BU-ONLY/940  | M153/O    | 6       | Clear       | BU ± 15°           | O       | 15000                | 24000                   | 19200  | 94  | 4200    | ☑ 1,10,11,13        |
|       |      |                 | 64821☼         | MCP250C/PS/BU-ONLY/940 | M153/O    | 6       | Coated      | BU ± 15°           | O       | 15000                | 22500                   | 18000  | 94  | 4000    | ☑ 1,10,11,13        |

### METALARC POWERBALL CERAMIC - PAR LAMPS

High CRI, Pulse Start, UV Stop, PAR Type – Open or Enclosed Fixtures

| Watts | Bulb    | Base    | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Beam Type | Beam Angle | Operating Position | Fix Req | Avg Rated Life (hrs) | MBCP  | Approx Lumens (initial) | CRI | CCT (K) | Symbols & Footnotes |
|-------|---------|---------|----------------|-----------------------|-----------|---------|-----------|------------|--------------------|---------|----------------------|-------|-------------------------|-----|---------|---------------------|
| 39    | PAR20   | E26 Med | 64747          | MCP39PAR20U/830/SP    | M130/O    | 12      | SP        | 10         | Universal          | O       | 9000                 | 22000 | 2000                    | 85  | 2900    | ☑ 1,3,4,5,10,11     |
|       |         |         | 64748          | MCP39PAR20U/830/FL    | M130/O    | 12      | FL        | 30         | Universal          | O       | 9000                 | 5000  | 2000                    | 85  | 2900    | ☑ 1,3,4,5,10,11     |
|       | PAR30LN | E26 Med | 64755          | MCP39PAR30LN/830/SP   | M130/O    | 6       | SP        | 10         | Universal          | O       | 9000                 | 39600 | 2300                    | 85  | 2900    | ☑ 1,3,4,5,10,11     |

H I D



PAR30



PAR38



E17

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High CRI, Pulse Start, UV Stop, PAR Type – Open or Enclosed Fixtures

| Watts | Bulb    | Base        | Product Number | Ordering Abbreviation     | ANSI Code | Pkg Qty | Beam Type | Beam Angle | Operating Position | Fix Req | Avg Rated Life (hrs) | MBCP  | Approx Lumens (initial) | CRI | CCT (K) | Symbols & Footnotes |
|-------|---------|-------------|----------------|---------------------------|-----------|---------|-----------|------------|--------------------|---------|----------------------|-------|-------------------------|-----|---------|---------------------|
| 39    | PAR30LN | E26 Med     | 64756          | MCP39PAR30LNU/830/FL      | M130/O    | 6       | FL        | 30         | Universal          | O       | 9000                 | 7400  | 2300                    | 85  | 2900    | 1,3,4,5,10,11       |
| 70    | PAR30LN | E26 Med     | 64745          | MCP70PAR30LNU/830/SP      | M139/O    | 6       | SP        | 12         | Universal          | O       | 9000                 | 46000 | 4400                    | 85  | 2900    | 1,4,5,6,10,11       |
|       |         |             | 64746          | MCP70PAR30LNU/830/FL      | M139/O    | 6       | FL        | 30         | Universal          | O       | 9000                 | 16000 | 4400                    | 85  | 2900    | 1,4,5,6,10,11,14,   |
|       | PAR38   | E26 Med Skt | 64749          | MCP70PAR38U/SP/830/ECO    | M139/O    | 6       | SP        | 15         | Universal          | O       | 10000                | 40000 | 4300                    | 85  | 3000    | 1,5,6,10,11,15      |
|       |         |             | 64750          | MCP70PAR38U/FL/830/ECO    | M139/O    | 6       | FL        | 25         | Universal          | O       | 10000                | 16000 | 4300                    | 85  | 3000    | 1,5,6,10,11,15      |
|       |         |             | 64751          | MCP70PAR38U/VWFL/830/ECO  | M139/O    | 6       | VWFL      | 65         | Universal          | O       | 10000                | 3500  | 4300                    | 85  | 3000    | 1,5,6,10,11,15      |
| 100   | PAR38   | E26 Med Skt | 64752          | MCP100PAR38U/SP/830/ECO   | M90/O     | 6       | SP        | 15         | Universal          | O       | 12000                | 58000 | 6500                    | 85  | 3000    | 1,5,10,11,12,15,16  |
|       |         |             | 64753          | MCP100PAR38U/FL/830/ECO   | M90/O     | 6       | FL        | 25         | Universal          | O       | 12000                | 25000 | 6500                    | 85  | 3000    | 1,5,10,11,12,15,16  |
|       |         |             | 64754          | MCP100PAR38U/VWFL/830/ECO | M90/O     | 6       | VWFL      | 60         | Universal          | O       | 12000                | 6000  | 6500                    | 85  | 3000    | 1,5,10,11,12,15,16  |
| 150   | PAR38   | E26 Med Skt | 64841*         | MCP150PAR38U/830/SP       | M102/O    | 6       | SP        | 15         | Universal          | O       | 9000                 | 50000 | 9100                    | 85  | 3000    | 1,8,10,11,15,16     |
|       |         |             | 64842*         | MCP150PAR38U/830/FL       | M102/O    | 6       | FL        | 25         | Universal          | O       | 9000                 | 28000 | 9100                    | 85  | 3000    | 1,8,10,11,15,16     |
|       |         |             | 64843*         | MCP150PAR38U/830/VWFL     | M102/O    | 6       | VWFL      | 65         | Universal          | O       | 9000                 | 6500  | 9100                    | 85  | 3000    | 1,8,10,11,15,16     |

**METALARC PULSE START & METALARC PRO-TECH®**

High Output, Reduced Color Shift, Low Wattage, Quartz – Open or Enclosed Fixtures

| Watts | Bulb | Base    | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|---------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 50    | E17  | E26 Med | 64587          | MP50U/MED             | M110/O    | 20      | Clear       | Universal          | O       | 20000V<br>10000H     | 3450                    | 1900   | 70  | 3000    | 10,11               |
|       |      |         | 64588          | MP50C/MED             | M110/O    | 20      | Coated      | Universal          | O       | 20000V<br>10000H     | 3200                    | 1750   | 70  | 2900    | 10,11               |
| 70    | E17  | E26 Med | 64547          | MP70U/MED             | M98/O     | 20      | Clear       | Universal          | O       | 15000V<br>10000H     | 5200                    | 3400   | 75  | 3000    | 10,11               |
|       |      |         | 64546          | MP70C/MED             | M98/O     | 20      | Coated      | Universal          | O       | 15000V<br>10000H     | 4700                    | 3100   | 75  | 2900    | 10,11               |
|       |      |         | 64625          | MPD70U/MED/840        | M98/O     | 20      | Clear       | Universal          | O       | 7500V<br>6000H       | 5500                    | 4000   | 80  | 4200    | 10,11               |
|       |      |         | 64621          | MPD70C/MED/840        | M98/O     | 20      | Coated      | Universal          | O       | 7500V<br>6000H       | 5100                    | 3800   | 82  | 4000    | 10,11               |
| 100   | E17  | E26 Med | 64417          | MP100U/MED            | M90/O     | 20      | Clear       | Universal          | O       | 15000V<br>10000H     | 8500                    | 5525   | 75  | 3000    | 10,11               |
|       |      |         | 64418          | MP100C/MED            | M90/O     | 20      | Coated      | Universal          | O       | 15000V<br>10000H     | 7900                    | 5800   | 75  | 2900    | 10,11               |
|       |      |         | 64426          | MPD100U/MED/840       | M90/O     | 20      | Clear       | Universal          | O       | 7500V<br>6000H       | 8400                    | 5800   | 82  | 4200    | 10,11               |
|       |      |         | 64433          | MPD100C/MED/840       | M90/O     | 20      | Coated      | Universal          | O       | 7500V<br>6000H       | 7700                    | 5500   | 82  | 4000    | 10,11               |



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**METALARC PULSE START & METALARC PRO-TECH®**

High Output, Reduced Color Shift, Low Wattage, Quartz – Open or Enclosed Fixtures

| Watts | Bulb | Base    | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|---------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 150   | E17  | E26 Med | 64402          | MP150U/MED            | M102/O    | 20      | Clear       | Universal          | O       | 15000V<br>10000H     | 12900                   | 10000  | 75  | 3000    | 10,11               |
|       |      |         | 64406          | MP150C/U/MED          | M102/O    | 20      | Coated      | Universal          | O       | 15000V<br>10000H     | 11600                   | 9000   | 75  | 2900    | 10,11               |
|       |      |         | 64403          | MPD150U/MED/840       | M102/O    | 20      | Clear       | Universal          | O       | 7500V<br>6000H       | 12500                   | 11000  | 88  | 4200    | ☒ 10,11             |
|       |      |         | 64425          | MPD150C/U/MED/840     | M102/O    | 20      | Coated      | Universal          | O       | 7500V<br>6000H       | 11500                   | 9500   | 88  | 4000    | ☒ 10,11             |

**METALARC PULSE START**

High Output, Reduced Color Shift, Low Wattage, Quartz, PAR Type – Open or Enclosed Fixtures

| Watts | Bulb  | Base        | Product Number | Ordering Abbreviation  | ANSI Code | Pkg Qty | Beam Type | Beam Angle | Operating Position | Fix Req | Avg Rated Life (hrs) | MBCP  | Approx Lumens (initial) | CRI | CCT (K) | Symbols & Footnotes |
|-------|-------|-------------|----------------|------------------------|-----------|---------|-----------|------------|--------------------|---------|----------------------|-------|-------------------------|-----|---------|---------------------|
| 70    | PAR38 | E26 Med Skt | 64590          | MP70PAR38U/SP20/ECO    | M98/O     | 6       | SP        | 20         | Universal          | O       | 8500                 | 18000 | 3400                    | 75  | 3200    | ☀ 10,11,15,16       |
|       |       |             | 64592          | MP70PAR38U/FL35/ECO    | M98/O     | 6       | FL        | 35         | Universal          | O       | 8500                 | 10000 | 3400                    | 75  | 3200    | ☀ 10,11,15,16       |
|       |       |             | 64594          | MP70PAR38U/VWFL65/ECO  | M98/O     | 6       | VWFL      | 65         | Universal          | O       | 8500                 | 3000  | 3400                    | 75  | 3200    | ☀ 10,11,15,16       |
| 100   | PAR38 | E26 Med Skt | 64580          | MP100PAR38U/SP20/ECO   | M90/O     | 6       | SP        | 20         | Universal          | O       | 8500                 | 26000 | 5800                    | 75  | 3000    | ☀ 10,11,15,16       |
|       |       |             | 64582          | MP100PAR38U/FL35/ECO   | M90/O     | 6       | FL        | 35         | Universal          | O       | 8500                 | 12000 | 5800                    | 75  | 3000    | ☀ 10,11,15,16       |
|       |       |             | 64584          | MP100PAR38U/VWFL65/ECO | M90/O     | 6       | VWFL      | 65         | Universal          | O       | 8500                 | 4500  | 5800                    | 75  | 3000    | ☀ 10,11,15,16       |
| 150   | PAR38 | E26 Med Skt | 64593          | MP150PAR38U/SP20/ECO   | M102/O    | 6       | SP        | 20         | Universal          | O       | 8500                 | 34000 | 8800                    | 75  | 3200    | ☀ 10,11,15,16       |
|       |       |             | 64597          | MP150PAR38U/FL35/ECO   | M102/O    | 6       | FL        | 35         | Universal          | O       | 8500                 | 17000 | 8800                    | 75  | 3200    | ☀ 10,11,15,16       |
|       |       |             | 64599          | MP150PAR38U/VWFL65/ECO | M102/O    | 6       | VWFL      | 65         | Universal          | O       | 8500                 | 7500  | 8800                    | 75  | 3200    | ☀ 10,11,15,16       |

**METALARC PULSE START**

High Output, Reduced Color Shift, High Wattage

| Watts | Bulb   | Base            | Product Number | Ordering Abbreviation   | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|--------|-----------------|----------------|-------------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 175   | ED17   | E26 Med         | 64171☼         | MS175/PS/BU-ONLY/MED    | M152/E    | 12      | Clear       | BU ± 15°           | E       | 15000                | 17500                   | 12800  | 65  | 4000    | 2,10,13,27          |
|       |        |                 | 64170☼         | MS175/C/PS/BU-ONLY/MED  | M152/E    | 12      | Coated      | BU ± 15°           | E       | 15000                | 16600                   | 12500  | 70  | 3700    | 2,10,13,27          |
|       | ED28   | E39 Mogul       | 64815☼         | MS175/PS/BU-ONLY        | M152/E    | 12      | Clear       | BU ± 15°           | E       | 15000                | 17500                   | 12800  | 65  | 4200    | 2,10,13             |
|       |        |                 | 64816☼         | MS175/C/PS/BU-ONLY      | M152/E    | 12      | Coated      | BU ± 15°           | E       | 15000                | 16000                   | 12500  | 70  | 4000    | 2,10,13             |
| 200   | ET23.5 | E39 Mogul       | 64837☼         | MS200/PS/BU-ONLY/ET23.5 | M136/E    | 6       | Clear       | BU ± 15°           | E       | 15000                | 19000                   | 13300  | 65  | 4200    | 2,10,13             |
|       | BT28   | E39 Mogul       | 64838☼         | MS200/PS/BU-ONLY/BT28   | M136/E    | 6       | Clear       | BU ± 15°           | E       | 15000                | 19000                   | 13500  | 65  | 4000    | 2,10,13             |
|       |        |                 | 64839☼         | MS200/C/PS/BU-ONLY/BT28 | M136/E    | 6       | Coated      | BU ± 15°           | E       | 15000                | 18000                   | 12800  | 65  | 3800    | 2,10,13             |
| 250   | BT28   | EX39 Excl Mogul | 64789          | MP250/PS/BU-ONLY        | M153/O    | 6       | Clear       | BU ± 15°           | O       | 15000                | 22500                   | 17000  | 65  | 4000    | 10,11,13            |
|       |        |                 | 64790          | MP250/C/PS/BU-ONLY      | M153/O    | 6       | Coated      | BU ± 15°           | O       | 15000                | 21000                   | 16000  | 70  | 4000    | 10,11,13            |
|       |        | E39 Mogul       | 64578          | MS250/PS/BU-ONLY        | M153/E    | 6       | Clear       | BU ± 15°           | E       | 20000                | 23500                   | 19000  | 65  | 4200    | 2,10,13             |

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BT28



BT37



E17

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High Output, Reduced Color Shift, High Wattage

| Watts | Bulb | Base            | Product Number | Ordering Abbreviation       | ANSI Code        | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI      | CCT (K) | Symbols & Footnotes |
|-------|------|-----------------|----------------|-----------------------------|------------------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|----------|---------|---------------------|
| 250   | BT28 | E39 Mogul       | 64617          | MS250/C/PS/BU-ONLY          | M153/E           | 6       | Coated      | BU ± 15°           | E       | 20000                | 21500                   | 17000                | 70       | 3600    | 2,10,13             |
| 320   | BT28 | E39 Mogul       | 64507          | MS320/PS/BU-HOR             | M154/E           | 6       | Clear       | BU-HOR             | E       | 20000V<br>15000H     | 32000V<br>30000H        | 21000V<br>19700H     | 65       | 4300    | 2,10,13,17          |
|       |      |                 | 64646          | MS320/C/PS/BU-HOR           | M154/E           | 6       | Coated      | BU-HOR             | E       | 20000V<br>15000H     | 30000V<br>28000H        | 19700V<br>18400H     | 70       | 3900    | 2,10,13,17          |
| 320   | BT28 | EX39 Excl Mogul | 64391          | MP320/350/PS/BU-ONLY/BT28   | M154/O<br>M131/O | 6       | Clear       | BU ± 15°           | O       | 20000<br>20000       | 28600<br>33500          | 21000V<br>24000H     | 65<br>65 | 3800    | 10,11,13,17         |
|       |      |                 | 64349          | MP320/350/C/PS/BU-ONLY/BT28 | M154/O<br>M131/O | 6       | Coated      | BU ± 15°           | O       | 20000<br>20000       | 27700<br>32000          | 19000V<br>22000H     | 70<br>70 | 3600    | 10,11,13,17         |
| 350   | BT37 | EX39 Excl Mogul | 64769          | MP350/400/PS/BU-ONLY        | M131/O<br>M155/O | 6       | Clear       | BU ± 15°           | O       | 20000<br>20000       | 33000<br>40000          | 24500V<br>29500H     | 65<br>65 | 3700    | 10,11,13,18         |
|       |      |                 | 64770          | MP350/400/C/PS/BU-ONLY      | M131/O<br>M155/O | 6       | Coated      | BU ± 15°           | O       | 20000<br>20000       | 32000<br>39000          | 23000V<br>28000H     | 70<br>70 | 3500    | 10,11,13,18         |
| 400   | BT37 | E39 Mogul       | 64525          | MS400/PS/BU-ONLY            | M155/S           | 6       | Clear       | BU ± 15°           | S       | 20000                | 42000                   | 31000                | 65       | 4000    | 10,13,18,19,20      |
|       |      |                 | 64527          | MS400/C/PS/BU-ONLY          | M155/S           | 6       | Coated      | BU ± 15°           | S       | 20000                | 42000                   | 29000                | 70       | 3600    | 10,13,18,19,20      |
| 750   | BT37 | E39 Mogul       | 64787          | MS750/PS/BU-HOR/BT37        | M149/E           | 6       | Clear       | BU-HOR             | E       | 16000V<br>12000H     | 80000V<br>68000H        | 60000V<br>51000H     | 65       | 4000    | 2,10,21             |
|       |      |                 | 64822          | MS750/C/PS/BU-HOR/BT37      | M149/E           | 6       | Coated      | BU-HOR             | E       | 16000V<br>12000H     | 75000V<br>65000H        | 56000V<br>48500H     | 70       | 3700    | 2,10,21             |
| 1000  | BT37 | E39 Mogul       | 64351          | M1000/PSU/BT37              | M141/E           | 6       | Clear       | Universal          | E       | 15000V<br>9000H      | 110000V<br>107800H      | 96000V<br>86300H     | 65       | 3800    | 2,10                |

**METALARC SUPERSAVER®**

Energy Saving, Metal Halide Retrofit

| Watts | Bulb | Base            | Product Number | Ordering Abbreviation   | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------------|----------------|-------------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 150   | BT28 | E39 Mogul       | 64719          | M150/SSU/BT-28          | M107/E    | 6       | Clear       | Universal          | E       | 10000V<br>7500H      | 13000V<br>12000H        | 7500V<br>8500H       | 65  | 4000    | 2,22,23             |
| 360   | BT37 | E39 Mogul       | 64655          | MS360/SS/BU-HOR         | M59/S     | 6       | Clear       | BU-HOR             | S       | 20000V<br>15000H     | 36000V<br>30000H        | 23500V<br>19000H     | 65  | 3600    | 20,23,24            |
|       |      |                 | 64656          | MS360/C/SS/BU-HOR       | M59/S     | 6       | Coated      | BU-HOR             | S       | 20000V<br>15000H     | 36000V<br>30000H        | 22500V<br>19000H     | 70  | 3600    | 20,23,24            |
|       |      | EX39 Excl Mogul | 64737          | MSP360/SS/BU-ONLY       | M59/O     | 6       | Clear       | BU ± 15°           | O       | 20000                | 36000                   | 23500                | 65  | 4000    | 11,23,24            |
|       |      |                 | 64738          | MSP360/C/SS/BU-ONLY     | M59/O     | 6       | Coated      | BU ± 15°           | O       | 20000                | 34500                   | 22500                | 70  | 3600    | 11,23,24            |
|       | ED28 | E39 Mogul       | 64828          | MS360/SS/BU-ONLY/ED28   | M59/E     | 12      | Clear       | BU ± 15°           | E       | 20000                | 36000                   | 23400                | 65  | 4000    | 2,23,24             |
|       |      |                 | 64829          | MS360/C/SS/BU-ONLY/ED28 | M59/E     | 12      | Coated      | BU ± 15°           | E       | 20000                | 34200                   | 22000                | 70  | 3700    | 2,23,24             |

**METALARC SUPER**

High Output, Position Dedicated

| Watts | Bulb | Base          | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|---------------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 175   | BT28 | E39 POM Mogul | 64439          | MS175/HOR             | M57/E     | 6       | Clear       | HOR ± 15°          | E       | 7500                 | 15000                   | 10000                | 65  | 4200    | 2,25                |
|       |      |               | 64440          | MS175/C/HOR           | M57/E     | 6       | Coated      | HOR ± 15°          | E       | 7500                 | 14500                   | 9700                 | 70  | 4000    | 2,25                |
| 250   | BT28 | E39 POM Mogul | 64448          | MS250/HOR             | M58/E     | 6       | Clear       | HOR ± 15°          | E       | 10000                | 23000                   | 15000                | 65  | 4200    | 2,25                |



BT28



BT37



BT56



E17



ET18

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High Output, Position Dedicated

| Watts | Bulb | Base          | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|---------------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 250   | BT28 | E39 POM Mogul | 64449          | MS250/C/HOR           | M58/E     | 6       | Coated      | HOR ± 15°          | E       | 10000                | 22000                   | 14000                | 70  | 3800    | 2,25                |
|       |      |               | 64496          | MS250/3K/HOR          | M58/E     | 6       | Coated      | HOR ± 15°          | E       | 10000                | 17200                   | 12500                | 70  | 3200    | 2,25                |
| 400   | BT28 | E39 POM Mogul | 64443          | MS400/HOR/BT28        | M59/E     | 6       | Clear       | HOR ± 15°          | E       | 20000                | 40000                   | 26000                | 65  | 4200    | 2,25                |
|       |      |               | 64444          | MS400/C/HOR/BT28      | M59/E     | 6       | Coated      | HOR ± 15°          | E       | 20000                | 36500                   | 24000                | 70  | 3800    | 2,25                |
|       | BT37 | E39 POM Mogul | 64445          | MS400/HOR             | M59/E     | 6       | Clear       | HOR ± 15°          | E       | 20000                | 40000                   | 26000                | 65  | 4200    | 2,25                |
|       |      |               | 64446          | MS400/C/HOR           | M59/E     | 6       | Coated      | HOR ± 15°          | E       | 20000                | 38000                   | 24000                | 70  | 3800    | 2,25                |
|       |      |               | 64498          | MS400/3K/HOR          | M59/E     | 6       | Coated      | HOR ± 15°          | E       | 20000                | 33500                   | 23300                | 70  | 3200    | 2,25                |
|       | BT28 | E39 Mogul     | 64441          | MS400/BU-ONLY/BT28    | M59/E     | 6       | Clear       | BU ± 15°           | E       | 20000                | 42000                   | 26000                | 65  | 3800    | 2                   |
|       | BT37 | E39 Mogul     | 64450          | MS400/BU-ONLY         | M59/S     | 6       | Clear       | BU ± 15°           | S       | 20000                | 42000                   | 26000                | 65  | 4000    | 20,26               |
|       |      |               | 64452          | MS400/C/BU-ONLY       | M59/S     | 6       | Coated      | BU ± 15°           | S       | 20000                | 42000                   | 24700                | 70  | 3600    | 20,26               |
|       |      |               | 64454          | MS400/3K/BU-ONLY      | M59/S     | 6       | Coated      | BU ± 15°           | S       | 20000                | 35000                   | 22000                | 70  | 3200    | 20                  |
|       |      |               | 64451          | MS400/BD-ONLY         | M59/S     | 6       | Clear       | BD ± 15°           | S       | 20000                | 42000                   | 26000                | 65  | 4000    | 20                  |
| 1000  | BT56 | E39 Mogul     | 64435          | MS1000/BU-ONLY        | M47/S     | 6       | Clear       | BU ± 15°           | S       | 18000                | 115000                  | 92000                | 65  | 4000    | 20                  |
|       |      |               | 64460          | MS1000/C/BU-ONLY      | M47/S     | 6       | Coated      | BU ± 15°           | S       | 18000                | 110000                  | 88000                | 70  | 3400    | 20                  |
|       |      |               | 64436          | MS1000/BD-ONLY        | M47/S     | 6       | Clear       | BD ± 15°           | S       | 18000                | 115000                  | 92000                | 65  | 4000    | 20                  |

**STANDARD METALARC & METALARC PRO-TECH® (OPEN FIXTURE RATED)**

| Watts | Bulb               | Base            | Product Number     | Ordering Abbreviation | ANSI Code       | Pkg Qty | Lamp Finish | Operating Position | Fix Req   | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI              | CCT (K)          | Symbols & Footnotes |      |
|-------|--------------------|-----------------|--------------------|-----------------------|-----------------|---------|-------------|--------------------|-----------|----------------------|-------------------------|----------------------|------------------|------------------|---------------------|------|
| 175   | E17                | E26 Med         | 64479              | M175U/MED             | M57/E           | 20      | Clear       | Universal          | E         | 10000V<br>7500H      | 14400V<br>12800H        | 9300                 | 65               | 4000             | 2                   |      |
|       |                    |                 | 64480              | M175/CU/MED           | M57/E           | 20      | Coated      | Universal          | E         | 10000V<br>7500H      | 13000V<br>11080H        | 8400                 | 70               | 3600             | 2                   |      |
|       |                    |                 | 64733              | MP175/BU-ONLY/MED     | M57/O           | 20      | Clear       | BU ± 15°           | O         | 10000                | 14400                   | 10800                | 65               | 3600             | 11                  |      |
|       | BT28               | E39 Mogul       | 64471              | M175U                 | M57/E           | 6       | Clear       | Universal          | E         | 10000V<br>7500H      | 14400V<br>12800H        | 9300                 | 65               | 4200             | 2                   |      |
|       |                    |                 | 64472              | M175/CU               | M57/E           | 6       | Coated      | Universal          | E         | 10000V<br>7500H      | 14000V<br>12000H        | 8400                 | 70               | 3800             | 2                   |      |
|       |                    |                 | 64473              | M175/3K/BU-ONLY       | M57/E           | 6       | Coated      | BU ± 15°           | E         | 10000                | 11800                   | 7600                 | 70               | 3200             | 2                   |      |
|       |                    |                 | EX39 Excl<br>Mogul | 64773                 | MP175/BU-ONLY   | M57/O   | 6           | Clear              | BU ± 15°  | O                    | 10000                   | 14400                | 10200            | 65               | 4000                | 11   |
|       |                    |                 |                    | 64774                 | MP175/C/BU-ONLY | M57/O   | 6           | Coated             | BU ± 15°  | O                    | 10000                   | 12800                | 7800             | 70               | 3800                | 11   |
| 250   | ET18               | E39 Mogul       | 64474              | M250U/ET18            | M58/E           | 10      | Clear       | Universal          | E         | 10000                | 22000V<br>20000H        | 17500V<br>13500H     | 65               | 4000             | 2                   |      |
|       |                    |                 | BT28               | E39 Mogul             | 64457           | M250U   | M58/E       | 6                  | Clear     | Universal            | E                       | 10000                | 22000V<br>20000H | 17000V<br>14100H | 65                  | 4200 |
|       | 64458              | M250/CU         |                    |                       | M58/E           | 6       | Coated      | Universal          | E         | 10000                | 21500V<br>19500H        | 17000V<br>14000H     | 70               | 3800             | 2                   |      |
|       | 64475              | M250/3K/BU-ONLY |                    |                       | M58/E           | 6       | Coated      | BU ± 15°           | E         | 10000                | 17500                   | 13000                | 70               | 3200             | 2                   |      |
|       | EX39 Excl<br>Mogul | 64404           | MP250/BU-ONLY      | M58/O                 | 6               | Clear   | BU ± 15°    | O                  | 10000     | 23000                | 17000                   | 65                   | 4000             | 11               |                     |      |
|       |                    | 64405           | MP250/C/BU-ONLY    | M58/O                 | 6               | Coated  | BU ± 15°    | O                  | 10000     | 20000                | 14350                   | 70                   | 3800             | 11               |                     |      |
|       | 400                | ET18            | E39 Mogul          | 64575                 | M400U/ET18      | M59/E   | 10          | Clear              | Universal | E                    | 20000V<br>15000H        | 36000V<br>33000H     | 23400V<br>21500H | 65               | 4000                | 2    |

Note: LCL = 6 1/8 in; MOL = 9 3/4 in



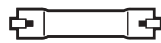
BT28



BT37



BT56



T (RSC base)

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STANDARD METALARC &amp; METALARC PRO-TECH® (OPEN FIXTURE RATED)

| Watts           | Bulb            | Base      | Product Number          | Ordering Abbreviation | ANSI Code          | Pkg Qty | Lamp Finish | Operating Position | Fix Req   | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI              | CCT (K) | Symbols & Footnotes |    |
|-----------------|-----------------|-----------|-------------------------|-----------------------|--------------------|---------|-------------|--------------------|-----------|----------------------|-------------------------|----------------------|------------------|---------|---------------------|----|
| 400             | BT28            | E39 Mogul | 64488                   | <b>M400U/BT28</b>     | M59/E              | 6       | Clear       | Universal          | E         | 20000V<br>15000H     | 36000V<br>32000H        | 23500V<br>20500H     | 65               | 4000    | 2                   |    |
|                 |                 |           | 64489                   | <b>M400C/U/BT28</b>   | M59/E              | 6       | Coated      | Universal          | E         | 20000V<br>15000H     | 36000V<br>32000H        | 22500V<br>20500H     | 70               | 3600    | 2                   |    |
|                 | BT37            | E39 Mogul | 64490                   | <b>M400U</b>          | M59/S              | 6       | Clear       | Universal          | S         | 20000V<br>15000H     | 36000V<br>32000H        | 23500V<br>20500H     | 65               | 4000    | 20,26               |    |
|                 |                 |           | 64492                   | <b>M400C/U</b>        | M59/S              | 6       | Coated      | Universal          | S         | 20000V<br>15000H     | 36000V<br>32000H        | 22500V<br>20500H     | 70               | 3700    | 20,26               |    |
|                 |                 |           | 64705                   | <b>MP400/BU-ONLY</b>  | M59/O              | 6       | Clear       | BU ± 15°           | O         | 20000                | 40000                   | 26000                | 65               | 3600    | 11                  |    |
|                 | EX39 Excl Mogul | 64706     | <b>MP400/C/BU-ONLY</b>  | M59/O                 | 6                  | Coated  | BU ± 15°    | O                  | 20000     | 38500                | 25000                   | 70                   | 3400             | 11      |                     |    |
|                 |                 | 64717     | <b>MP400/BD-ONLY</b>    | M59/O                 | 6                  | Clear   | BD ± 15°    | O                  | 20000     | 40000                | 26000                   | 65                   | 3600             | 11      |                     |    |
|                 | 1000            | BT37      | E39 Mogul               | 64469                 | <b>M1000U/BT37</b> | M47/E   | 6           | Clear              | Universal | E                    | 15000V<br>9000H         | 110000V<br>107800H   | 93500V<br>86300H | 65      | 3800                | 2  |
|                 |                 | BT56      | E39 Mogul               | 64468                 | <b>M1000U</b>      | M47/S   | 6           | Clear              | Universal | S                    | 18000V<br>12000H        | 110000V<br>107800H   | 86000V<br>86300H | 65      | 4000                | 20 |
| 64470           |                 |           |                         | <b>M1000C/U</b>       | M47/S              | 6       | Coated      | Universal          | S         | 18000V<br>12000H     | 107000V<br>101600H      | 80000                | 70               | 3400    | 20                  |    |
| EX39 Excl Mogul |                 | 64714     | <b>MP1000/BU-ONLY</b>   | M47/O                 | 6                  | Clear   | BU ± 15°    | O                  | 12000     | 107000               | 85500                   | 65                   | 3500             | 11      |                     |    |
|                 |                 | 64716     | <b>MP1000/C/BU-ONLY</b> | M47/O                 | 6                  | Coated  | BU ± 15°    | O                  | 12000     | 100000               | 80000                   | 70                   | 3200             | 11      |                     |    |
| 1500            | BT56            | E39 Mogul | 64431                   | <b>M1500/BU-HOR</b>   | M48/E              | 6       | Clear       | BU-HOR             | E         | 3000                 | 170000V<br>153000H      | 140000V<br>127400H   | 70               | 4000    | 2,28                |    |
|                 |                 |           | 64432                   | <b>M1500/BD</b>       | M48/E              | 6       | Clear       | BD ± 15°           | E         | 3000                 | 167000                  | 140000               | 70               | 4000    | 2                   |    |

**METALARC BRITELINE**

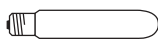
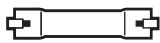
Double-Ended – Enclosed Fixtures Only

| Watts | Bulb | Base            | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Arc Length (in) | Symbols & Footnotes |
|-------|------|-----------------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|-----------------|---------------------|
| 1500  | T7   | RX7S RRSC       | 66619          | <b>M1500T7/DE</b>     | TBD       | 10      | Clear       | HOR ± 4°           | F       | 3000                 | 150000                  | 127500               | 65  | 4200    | 6.71            | 29,30,31,32         |
|       | T8   | Cer #8-10 Spade | 66632          | <b>M1500T8/DE</b>     | M133/F    | 10      | Clear       | HOR ± 4°           | F       | 6000                 | 150000                  | 120000               | 65  | 4200    | 4.3             | 29,31,32            |
| 2000  | T8   | RX7S RRSC       | 66627          | <b>M2000T8/DE</b>     | TBD       | 10      | Clear       | HOR ± 4°           | F       | 3000                 | 200000                  | 170000               | 65  | 4000    | 7.09            | 29,30,31,32         |
|       | T9   | Cer #8-10 Spade | 66631          | <b>M2000T9/DE</b>     | M134/F    | 10      | Clear       | HOR ± 4°           | F       | 3000                 | 200000                  | 170000               | 65  | 4200    | 4.25            | 29,31,32            |

**METALARC SAFELINE®**

Self-Extinguishing

| Watts | Bulb | Base      | Product Number | Ordering Abbreviation  | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------|----------------|------------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 400   | BT37 | E39 Mogul | 64707          | <b>MT400/BU-ONLY</b>   | M59/S     | 6       | Clear       | BU ± 15°           | S       | 20000                | 36000                   | 22000                | 60  | 4500    | 20,33               |
|       |      |           | 64709          | <b>MT400/C/BU-ONLY</b> | M59/S     | 6       | Coated      | BU ± 15°           | S       | 20000                | 35000                   | 20600                | 65  | 4100    | 20,33               |



T (RSC base)

T (Fc2 base)

T (G12 base)

T (Mog base)

R30/R40

**HQI® METAL HALIDE (COMPACT, HIGH CRI, QUARTZ)****HQI DOUBLE-ENDED (ENCLOSED FIXTURES)**

| Watts | Bulb | Base    | Product Number | Ordering Abbreviation | ANSI Code  | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|---------|----------------|-----------------------|------------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 70    | T6   | R7S RSC | 64364          | HQI-DE70/MDX-E        | Electronic | 12      | Clear       | HOR ± 45°          | E       | 10000                | 6000                    | 4900   | 85  | 3000    | ☐ 2,5,30,34         |
|       |      |         | 64362          | HQI-DE70/NDX          | M85/E      | 12      | Clear       | HOR ± 45°          | E       | 8000                 | 5500                    | 3800   | 81  | 4000    | ☐ 2,5               |
|       |      |         | 64360          | HQI-DE70/WDX          | M85/E      | 12      | Clear       | HOR ± 45°          | E       | 10000                | 4700                    | 4300   | 80  | 3000    | ☐ 2,5               |
| 150   | T7   | R7S RSC | 64366          | HQI-DE150/WDX         | M81/E      | 12      | Clear       | HOR ± 45°          | E       | 10000                | 11000                   | 9000   | 81  | 3000    | ☐ 2,5               |
|       |      |         | 64368          | HQI-DE150/NDX         | M81/E      | 12      | Clear       | HOR ± 45°          | E       | 10000                | 11250                   | 9500   | 85  | 4200    | ☐ 2,5               |
| 250   | T9.5 | FC2     | 64374          | HQI-DE250/NDX         | M80/E      | 12      | Clear       | HOR ± 45°          | E       | 10000                | 20000                   | 16000  | 85  | 4200    | ☐ 2,5               |
|       |      |         | 64378          | HQI-DE250/DX          | M80/E      | 12      | Clear       | HOR ± 45°          | E       | 10000                | 20000                   | 15500  | 93  | 5000    | ☐ 2,5               |

**HQI SINGLE-ENDED (ENCLOSED FIXTURES)**

| Watts | Bulb  | Base      | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|-------|-----------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|-----|---------|---------------------|
| 150   | T7.5  | G12       | 64342          | HQI-SE 150/NDX        | M81/E     | 12      | Clear       | Universal          | E       | 9000                 | 12500                   | 8900   | 85  | 4200    | ☐ 2,5               |
| 250   | T14.5 | E40 Mogul | 64350          | HQI-SE250/DX          | S50/E     | 12      | Clear       | Universal          | E       | 9000                 | 19000                   | 16000  | 90  | 5200    | ☐ 2,5,35            |
| 400   | BT    | E40 Mogul | 64352          | HQI-SE400/DX          | S51/E     | 12      | Clear       | Universal          | E       | 9000                 | 33000                   | 24000  | 90  | 5200    | ☐ 2,5,35            |

**HQI FIBER-OPTIC INTEGRATED DICHROIC REFLECTOR (ENCLOSED FIXTURES)**

| Watts | Bulb | Base            | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | (mean) | CRI  | CCT (K) | Symbols & Footnotes |
|-------|------|-----------------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|--------|------|---------|---------------------|
| 150   | R30  | 2 Pin Connector | 64339          | HQI-R150/NDX/FO       | M81/E     | 12      | Clear       | HOR                | E       | 9000                 | 11000                   | 85     | 4200 | ☐       |                     |

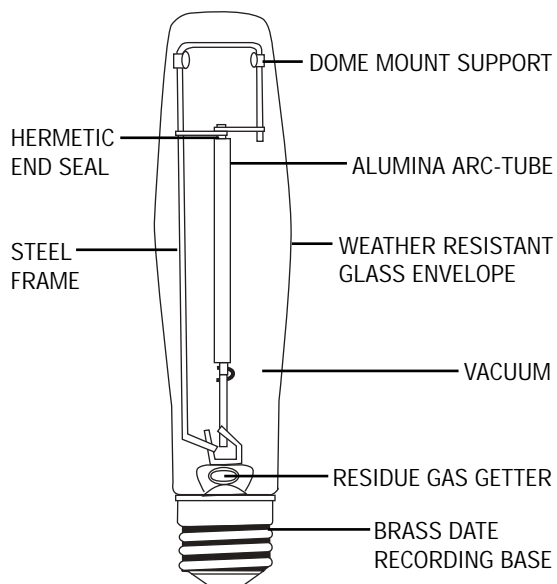
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**GUIDE TO HIGH PRESSURE SODIUM LAMPS**

High Pressure Sodium lamps are one of the most efficient HID sources available today. These lamps are used for general lighting applications where high efficiency and long life are desired while color rendering is not critical. Typical applications include street lighting, parking lot lighting, building floodlighting and general area lighting.

**LUMALUX PLUS® / ECO®** — These environmentally friendlier lamps are designed with lead-free, welded mogul bases and they contain significantly less Mercury than standard high pressure sodium lamps. They will not cycle at the end of life and are rated for 30,000 hours life. All lamps operate on existing high pressure sodium ballasts and pass the existing Federal TCLP limits.\*

**LUMALUX® MERCURY-FREE / ECO** — Lumalux Mercury-free lamps incorporate the latest technology to eliminate both mercury and lead allowing them to pass the Federal TCLP test.\* These lamps provide premium Lumalux performance and operate on existing high pressure sodium ballasts.

**LUMALUX AND LUMALUX / ECO** — Available in a broad range of wattages, in both clear and coated configurations, Lumalux and Lumalux / ECO lamps are ideal for a variety of applications. Lumalux medium based lamps are available in wattages ranging from 35-150 watts while mogul based lamps are offered in 50-1000 watts. The mogul based Lumalux / ECO lamps operate on standard high pressure sodium ballasts and pass the Federal TCLP test.\*

**LUMALUX STANDBY** — These lamps are designed with two arc tubes to provide instant restrike capability in the event of a momentary power interruption. With almost twice the life of standard high pressure sodium lamps, Lumalux Standby lamps are a great way to reduce maintenance costs.

**UNALUX®** — These high pressure sodium retrofit lamps are designed to operate on all Mercury reactor ballasts when increased light and reduced energy is desired.

**SOX** — These energy efficient low pressure sodium lamps emit a characteristic yellow light that is ideal for certain exterior street and area lighting.

\* based on NEMA LL Series Standards

**WARNING****LUMALUX, LUMALUX / ECO, LUMALUX PLUS / ECO, AND LUMALUX STANDBY LAMPS**

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

**I. OPERATE WITH COMPATIBLE BALLAST AND FIXTURE ONLY:**

This lamp must be operated in a fixture and ballast which has an ANSI designation identical to that found on the lamp outer glass bulb, otherwise the lamp may rupture resulting in the discharge of hot particles.

**II. ELECTRICAL SHOCK AND BURN HAZARD:**

Do not remove or insert lamp when power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

**III. INSTALLATION AND OPERATING INSTRUCTIONS:**

See catalog for specific operating parameters.

1. A specially designed socket which is electrically rated to withstand a 4000 volt pulse is required for all High Pressure Sodium lamps except for the 750 and 1000 watt lamps which require a socket rated to withstand a 5000 volt pulse.
2. These lamps have a vacuum jacket and may implode if broken. For added safety, wear safety glasses and gloves when installing or removing bulbs.
3. To avoid burn injury, allow lamp to cool before removing from fixture.
4. Screw lamp firmly but not forcibly into socket to avoid breakage.
5. Replace lamps at or before end of rated life. (See catalog for rated life.)
6. Never install it into an ordinary household socket.
7. This lamp may be operated in any position.

**IV. PROPER CARE AND MAINTENANCE:**

To reduce the possibility of a rupture and premature lamp failure:

1. Do not use with luminaires which would cause an excessive increase in arc-tube operating voltage.
2. Do not expose operating lamp to moisture.
3. Replace lamp if outer glass bulb has been scratched, cracked, or damaged in any way.
4. Electrically insulate any metal support in contact with the outer glass bulb to avoid glass decomposition.

**V. BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

**WARNING**

**UNALUX®**

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

**I. OPERATE WITH COMPATIBLE BALLAST AND FIXTURE ONLY:**

This lamp will operate safely and perform satisfactorily only when used with conventional high leakage reactance lag type auto-transformer or reactor mercury ballasts as indicated in the table below, otherwise the lamp may rupture resulting in the discharge of hot particles.

| Mercury Lamp Wattage | ANSI Mercury Ballast No. | Sodium Replacement Lamp Type |
|----------------------|--------------------------|------------------------------|
| 175                  | H39                      | 150                          |
| 250                  | H37                      | 215                          |
| 400                  | H33                      | 360                          |
| 1000                 | H36                      | 880                          |

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TO AVOID PREMATURE LAMP FAILURE, DO NOT USE WITH CW OR CWA BALLASTS.

**II. ELECTRICAL SHOCK AND BURN HAZARD:**

Do not remove or insert lamp when power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

**III. INSTALLATION AND OPERATING INSTRUCTIONS:**

See catalog for specific operating parameters.

1. These lamps have a vacuum jacket and may implode if broken. For added safety, wear safety glasses and gloves when installing or removing lamps.
2. To avoid burn injury, allow lamp to cool before removing from fixture.
3. Screw lamp firmly but not forcibly into socket to avoid breakage.
4. Replace lamp at or before the end of rated life. (See catalog for rated life.)
5. This lamp may be operated in any position.

**IV. PROPER CARE AND MAINTENANCE:**

To reduce the possibility of a rupture and premature lamp failure:

1. Do not use with luminaires which would cause an excessive increase in arc-tube operating voltage.
2. Do not expose operating lamp to moisture.
3. Replace lamp if outer glass bulb has been scratched, cracked or damaged in any way.
4. Electrically insulate any metal support in contact with the outer glass bulb to avoid glass decomposition.

- V. BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

**WARNING**

**LUMALUX® Double-Ended Quartz Jacketed Lamps**

ANSI LUMINAIRE Code F  
ENCLOSED FIXTURE with UV  
Filter and lens interlock required

- I. OPERATE WITH COMPATIBLE BALLAST AND FIXTURE ONLY:** This lamp must be operated in a fixture and ballast which has an ANSI designation identical to that found on the lamp outer glass bulb.

- II. ULTRAVIOLET RADIATION HAZARD:** THIS LAMP EMITS ULTRAVIOLET (UV) POWER DURING OPERATION AND IS IN RISK GROUP 2 PER ANSI-IESNA Rp-27.3-96. THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INJURY FROM SHORTWAVE ULTRAVIOLET RADIATION. IT **MUST** BE OPERATED IN AN ENCLOSED FIXTURE WHICH FILTERS OUT THE HARMFUL SHORTWAVE ULTRAVIOLET RADIATION. IF YOU ARE UNCERTAIN, CONTACT YOUR FIXTURE MANUFACTURER.

A power interlock device is required to automatically turn off the lamp if the fixture assembly is opened. It is strongly recommended that a power interlock device also turn off power to the lamp if the fixture lens is broken. If the fixture lens breaks and the lamp remains on, turn off power immediately and repair before re-energizing.

This lamp is to be used **ONLY** in a fixture specifically designed for use with this lamp and recommended for its use by the equipment manufacturer.

- III. ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. Allow lamp to cool before removing.

- IV. LAMP INSTALLATION AND FIXTURE:** Do not remove lamp from package until ready for use and then handle only with clean cotton gloves. If lamp is handled, fingerprints, grease or oils may be removed from the bulb by wiping with alcohol. This will remove materials which cause whitish spotting (devitrification) and premature lamp failure. Dry lamp carefully with clean cotton cloth.

1. Install lamp without undue pressure.
2. Ensure that lamp electrical connections are secure and nothing is touching bulb.
3. All seal gaskets and wire insulation must be shielded from the UV radiation produced by this lamp.
4. Fixture wiring must have a temperature rating of 250° C and a minimum voltage rating of 600 V RMS.
5. Never install it into a fixture designed for use with tungsten halogen lamps.
6. Do not expose operating lamp to moisture (such as rain, sleet or snow).
7. Replace lamp if outer glass bulb has been scratched, cracked, or damaged in any way.

- V. BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

## WARNING

### SOX LAMPS

#### I. BURNS AND FIRE HAZARD:

Sox lamps contain a quantity of sodium which may heat from a reaction with moisture in the air or on the skin if a lamp is broken. Hot sodium will burn spontaneously when exposed to the air. Sodium lamps must be packed, shipped, and stored in the wrapping provided to reduce the risk of breakage.

#### II. IMPLOSION HAZARD:

**Always wear safety glasses when handling lamp.** Low pressure sodium lamps are made of glass and are evacuated and could therefore implode if damaged or handled incorrectly. Replace lamp if outer glass bulb has been scratched, cracked, or damaged in any way. To reduce the possibility of a lamp cracking or breaking, do not expose operating lamp to rain, snow, or water.

#### III. ELECTRICAL SHOCK AND BURN HAZARD:

Do not remove or insert lamp when power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

#### IV. OPERATE WITH COMPATIBLE BALLAST AND FIXTURE ONLY:

This lamp must be operated in a fixture and ballast which was specifically designed for use with this lamp.

#### V. INSTALLATION AND OPERATING INSTRUCTIONS:

1. When operated in other than the base up orientation, single-based "SOX" lamps of from 35 watts to 180 watts must be supported at the end opposite to the base in such a way as to allow for thermal expansion and contraction along the lamp axis.
2. Install lamp firmly but not forcibly into socket to avoid breakage.
3. For maximum system performance, replace lamp at or before end of rated life. (See catalog for rated life.)
4. Only operate lamps in designated operating positions. (See catalog for illustration.)

#### VI. LAMP DISPOSAL:

To avoid the risk of personal injury or property damage from sodium reaction when disposing of spent lamps, the following procedure should be followed:

1. Before commencing, operator must be outfitted with appropriate OSHA-approved face mask, gloves and apron.
2. Place no more than 20 lamp(s) in a large, dry container. (Do not exceed one-quarter of the container height.)
3. Break lamp(s) into small pieces inside the container in a dry atmosphere and in a well ventilated area.
4. From a safe distance, carefully pour enough tap water into container to cover all materials.
5. After a few minutes, the reaction of the sodium with the large quantity of water will produce a mild sodium hydroxide solution which may be disposed of in accordance with applicable federal, state and local regulations.

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**LUMALUX® HIGH PRESSURE SODIUM**

**LUMALUX PLUS/ECO**

Non-Cycling, Environmentally Friendlier

| Watts | Bulb   | Base      | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|--------|-----------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 50    | ET23.5 | E39 Mogul | 67607          | LU50/PLUS/ECO         | S68       | 20      | Clear       | Universal          | 0       | 30000                | 4000                    | 3600                 | 22  | 1900    | ☀️ 10,15,36         |
| 70    | ET23.5 | E39 Mogul | 67497          | LU70/PLUS/ECO         | S62       | 20      | Clear       | Universal          | 0       | 30000                | 6300                    | 5600                 | 22  | 1900    | ☀️ 10,15,36         |
| 100   | ET23.5 | E39 Mogul | 67559          | LU100/PLUS/ECO        | S54       | 20      | Clear       | Universal          | 0       | 30000                | 9800                    | 8550                 | 22  | 2100    | ☀️ 10,15,36         |
| 150   | ET23.5 | E39 Mogul | 67494          | LU150/55/PLUS/ECO     | S55       | 20      | Clear       | Universal          | 0       | 30000                | 16000                   | 14400                | 22  | 2100    | ☀️ 10,15,36, 37,38  |
| 200   | ET18   | E39 Mogul | 67495          | LU200/PLUS/ECO        | S66       | 20      | Clear       | Universal          | 0       | 30000                | 22000                   | 19800                | 22  | 2100    | ☀️ 10,15,36         |
| 250   | ET18   | E39 Mogul | 67572          | LU250/PLUS/ECO        | S50       | 20      | Clear       | Universal          | 0       | 30000                | 29000                   | 26100                | 22  | 2100    | ☀️ 10,15,36         |
| 310   | ET18   | E39 Mogul | 67660          | LU310/PLUS/ECO        | S67       | 20      | Clear       | Universal          | 0       | 30000                | 37000                   | 33300                | 22  | 2100    | ☀️ 10,15,36         |
| 400   | ET18   | E39 Mogul | 67312          | LU400/PLUS/ECO        | S51       | 20      | Clear       | Universal          | 0       | 30000                | 50000                   | 45000                | 22  | 2100    | ☀️ 10,15,36         |

**LUMALUX HGF/ECO®**

Mercury Free, Environmentally Friendlier

| Watts | Bulb   | Base      | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|--------|-----------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 70    | ET23.5 | E39 Mogul | 67565          | LU70/Hgf/ECO          | S62       | 20      | Clear       | Universal          | 0       | 24000                | 6000                    | 5100                 | 22  | 2150    | ☀️ 10,15            |
| 100   | ET23.5 | E39 Mogul | 67558          | LU100/Hgf/ECO         | S54       | 20      | Clear       | Universal          | 0       | 24000                | 9500                    | 8500                 | 22  | 2150    | ☀️ 10,15            |
| 150   | ET23.5 | E39 Mogul | 67566          | LU150/55/Hgf/ECO      | S55       | 20      | Clear       | Universal          | 0       | 24000                | 15500                   | 13200                | 22  | 2200    | ☀️ 10,15,37, 38     |

**LUMALUX STANDARD & LUMALUX ECO®**

| Watts | Bulb   | Base      | Product Number | Ordering Abbreviation  | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|--------|-----------|----------------|--|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 35    | E17    | E26 Med   | 67500          | LU35/MED   | S76       | 20      | Clear       | Universal          | 0       | 16000+               | 2250                    | 2050                 | 22  | 1900    | 10,39               |
|       |        |           | 67501          | LU35/D/MED   | S76       | 20      | Coated      | Universal          | 0       | 16000+               | 2100                    | 1935                 | 22  | 1900    | 10,39               |
| 50    | E17    | E26 Med   | 67502          | LU50/MED   | S68       | 20      | Clear       | Universal          | 0       | 24000+               | 4000                    | 3600                 | 22  | 1900    | 10,39               |
|       |        |           | 67503          | LU50/D/MED   | S68       | 20      | Coated      | Universal          | 0       | 24000+               | 3700                    | 3420                 | 22  | 1900    | 10,39               |
|       | ET23.5 | E39 Mogul | 67510          | LU50/ECO   | S68       | 20      | Clear       | Universal          | 0       | 24000+               | 4000                    | 3600                 | 22  | 1900    | ☀️ 10,15,39         |
|       |        |           | 67511          | LU50/D   | S68       | 20      | Coated      | Universal          | 0       | 24000+               | 3700                    | 3420                 | 22  | 1900    | 10,39               |
| 70    | E17    | E26 Med   | 67504          | LU70/MED   | S62       | 20      | Clear       | Universal          | 0       | 24000+               | 6300                    | 5350                 | 22  | 1900    | 10,39               |
|       |        |           | 67505          | LU70/D/MED   | S62       | 20      | Coated      | Universal          | 0       | 24000+               | 5800                    | 4900                 | 22  | 1900    | 10,39               |
|       | ET23.5 | E39 Mogul | 67512          | LU70/ECO   | S62       | 20      | Clear       | Universal          | 0       | 24000+               | 6300                    | 5500                 | 22  | 1900    | ☀️ 10,15,39         |
|       |        |           | 67513          | LU70/D   | S62       | 20      | Coated      | Universal          | 0       | 24000+               | 5500                    | 4900                 | 22  | 1900    | 10,39               |
| 100   | E17    | E26 Med   | 67506          | LU100/MED  | S54       | 20      | Clear       | Universal          | 0       | 24000+               | 9500                    | 8000                 | 22  | 2100    | 10,39               |
|       |        |           | 67507          | LU100/D/MED  | S54       | 20      | Coated      | Universal          | 0       | 24000+               | 8800                    | 7500                 | 22  | 2100    | 10,39               |
|       | ET23.5 | E39 Mogul | 67514          | LU100/ECO  | S54       | 20      | Clear       | Universal          | 0       | 24000+               | 9500                    | 8000                 | 22  | 2100    | ☀️ 10,15,39         |
|       |        |           | 67515          | LU100/D  | S54       | 20      | Coated      | Universal          | 0       | 24000+               | 8800                    | 7500                 | 22  | 2100    | 10,39               |
| 150   | E17    | E26 Med   | 67508          | LU150/55/MED<br><i>Note: LCL = 3 7/16 in; MOL = 5 11/16 in</i>   | S55       | 20      | Clear       | Universal          | 0       | 24000+               | 15800                   | 13400                | 22  | 2100    | 10,37,38,39         |
|       |        |           | 67509          | LU150/55/D/MED<br><i>Note: LCL = 3 7/16 in; MOL = 5 11/16 in</i> | S55       | 20      | Coated      | Universal          | 0       | 24000+               | 14500                   | 12300                | 22  | 2100    | 10,37,38,39         |
|       | ET23.5 | E39 Mogul | 67516          | LU150/55/ECO   | S55       | 20      | Clear       | Universal          | 0       | 24000+               | 16000                   | 13800                | 22  | 2100    | ☀️ 10,15,37, 39     |
|       |        |           | 67517          | LU150/55/D   | S55       | 20      | Coated      | Universal          | 0       | 24000+               | 14000                   | 12500                | 22  | 2100    | 10,37,39            |
|       | BT28   | E39 Mogul | 67518          | LU150/100  | S56       | 10      | Clear       | Universal          | 0       | 24000+               | 15700                   | 14100                | 22  | 2100    | 10,39,40            |



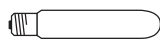
ET18



BT28, ET23.5



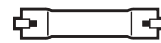
BT37



T (Mog base)



E25



T (RSC base)

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| Watts | Bulb | Base      | Product Number | Ordering Abbreviation                        | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) (mean) |        | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------|----------------|--|-----------|---------|-------------|--------------------|---------|----------------------|--------------------------------|--------|-----|---------|---------------------|
| 200   | ET18 | E39 Mogul | 67576          | <b>LU200/ECO</b>                             | S66       | 20      | Clear       | Universal          | 0       | 24000+               | 22000                          | 19800  | 22  | 2100    | 10,15,39            |
| 250   | BT28 | E39 Mogul | 67521          | <b>LU250/D</b>                               | S50       | 10      | Coated      | Universal          | 0       | 24000+               | 26000                          | 23400  | 22  | 2100    | 10,39               |
|       | ET18 | E39 Mogul | 67578          | <b>LU250/ECO</b>                             | S50       | 20      | Clear       | Universal          | 0       | 24000+               | 29000                          | 26100  | 22  | 2100    | 10,15,39            |
| 310   | ET18 | E39 Mogul | 67580          | <b>LU310/ECO</b>                             | S67       | 20      | Clear       | Universal          | 0       | 24000+               | 37000                          | 33300  | 22  | 2100    | 10,15,39            |
| 400   | BT37 | E39 Mogul | 67524          | <b>LU400/D</b>                               | S51       | 10      | Coated      | Universal          | 0       | 24000+               | 47500                          | 40000  | 21  | 2100    | 10,39               |
|       | ET18 | E39 Mogul | 67533          | <b>LU400/ECO</b>                             | S51       | 20      | Clear       | Universal          | 0       | 24000+               | 50000                          | 45000  | 22  | 2100    | 10,15,39            |
| 600   | T16  | E39 Mogul | 67610          | <b>LU600 SUPER</b>                           | S106      | 12      | Clear       | Universal          | 0       | 24000                | 90000                          | 81000  | 22  | 2200    | 41                  |
| 750   | BT37 | E39 Mogul | 67547          | <b>LU750</b>                                 | S111      | 6       | Clear       | Universal          | 0       | 24000+               | 105000                         | 94500  | 22  | 2100    | 39,41               |
|       |      |           |                | <i>Note: LCL = 6 1/8 in; MOL = 11 1/2 in</i> |           |         |             |                    |         |                      |                                |        |     |         |                     |
| 1000  | E25  | E39 Mogul | 67307          | <b>LU1000</b>                                | S52       | 6       | Clear       | Universal          | 0       | 24000+               | 130000                         | 124000 | 22  | 2100    | 39,41               |

**LUMALUX STANDBY**

Dual Arc Tube, Long Life

| Watts | Bulb   | Base      | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) (mean) |        | CRI | CCT (K) | Symbols & Footnotes |
|-------|--------|-----------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|--------------------------------|--------|-----|---------|---------------------|
| 70    | ET23.5 | E39 Mogul | 67540          | <b>LU70/SBY</b>       | S62       | 20      | Clear       | Universal          | 0       | 40000                | 6050                           | 4950   | 22  | 1900    | 10,42               |
| 100   | ET23.5 | E39 Mogul | 67542          | <b>LU100/SBY</b>      | S54       | 20      | Clear       | Universal          | 0       | 40000                | 9500                           | 7600   | 22  | 2100    | 10,42               |
| 150   | ET23.5 | E39 Mogul | 67544          | <b>LU150/55/SBY</b>   | S55       | 20      | Clear       | Universal          | 0       | 40000                | 15700                          | 12100  | 22  | 2100    | 10,37,38,42         |
| 200   | ET18   | E39 Mogul | 67586          | <b>LU200/100/SBY</b>  | S66       | 20      | Clear       | Universal          | 0       | 40000                | 21500                          | 18000  | 22  | 2100    | 10,42               |
| 250   | ET18   | E39 Mogul | 67582          | <b>LU250/SBY</b>      | S50       | 20      | Clear       | Universal          | 0       | 40000                | 27500                          | 23200  | 22  | 2100    | 10,42               |
| 400   | ET18   | E39 Mogul | 67584          | <b>LU400/SBY</b>      | S51       | 20      | Clear       | Universal          | 0       | 40000                | 47500                          | 40000  | 22  | 2100    | 10,42               |
| 1000  | E25    | E39 Mogul | 67543          | <b>LU1000/SBY</b>     | S52       | 6       | Clear       | Universal          | 0       | 24000+               | 127000                         | 115000 | 22  | 2100    | 39,41               |

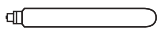
**UNALUX®**

High Pressure Sodium Retrofit for Mercury

| Watts | Bulb | Base      | Product Number | Ordering Abbreviation                         | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) (mean) |       | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------|----------------|---|-----------|---------|-------------|--------------------|---------|----------------------|--------------------------------|-------|-----|---------|---------------------|
| 150   | BT28 | E39 Mogul | 67528          | <b>ULX150</b>                                 | S63       | 10      | Clear       | Universal          | 0       | 24000                | 11800                          | 10600 | 20  | 1800    | 43                  |
| 215   | BT28 | E39 Mogul | 67530          | <b>ULX215</b>                                 | S65       | 10      | Clear       | Universal          | 0       | 16000                | 20000                          | 17000 | 20  | 2000    | 43                  |
| 360   | BT37 | E39 Mogul | 67531          | <b>ULX360</b>                                 | S64       | 10      | Clear       | Universal          | 0       | 16000                | 36500                          | 32800 | 20  | 2060    | 43                  |
| 880   | E25  | E39 Mogul | 67318          | <b>ULX880</b>                                 |           | 6       | Clear       | Universal          | 0       | 12000                | 101000                         | 91000 | 20  | 2100    | 43,44               |
|       |      |           |                | <i>Note: LCL = 9 1/2 in; MOL = 15 1/16 in</i> |           |         |             |                    |         |                      |                                |       |     |         |                     |

**SPECIALTY**

| Watts | Bulb  | Base      | Product Number | Ordering Abbreviation    | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) (mean) |        | CRI | CCT (K) | Symbols & Footnotes |
|-------|-------|-----------|----------------|--------------------------|-----------|---------|-------------|--------------------|---------|----------------------|--------------------------------|--------|-----|---------|---------------------|
| 400   | T7    | RX7S RRSC | 67527          | <b>LU400T7/RSC</b>       | S51       | 10      | Clear       | HOR                | E       | 24000                | 46000                          | 41400  | 21  | 2100    | 2,10                |
|       | T14.5 | E40 Mogul | 67711          | <b>400W PLANTASTAR</b>   | S51       | 12      | Clear       | Universal          | 0       | 16000                | 55000                          | 50000  | 22  | 2000    | 41,45               |
| 600   | T14.5 | E40 Mogul | 67712          | <b>600W PLANTASTAR</b>   | S106      | 12      | Clear       | Universal          | 0       | 16000                | 90000                          | 81000  | 22  | 2000    | 41,45               |
| 1000  | E25   | E39 Mogul | 67314          | <b>LU1000/PLANTASTAR</b> | S52       | 6       | Clear       | Universal          | 0       | 24000                | 130000                         | 124000 | 22  | 2100    | 41                  |



T (BY22D base)

## SOX LOW PRESSURE SODIUM

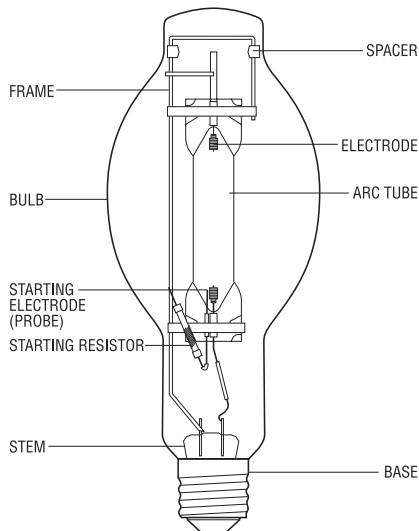
| Watts | Bulb | Base  | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | CCT (K) | MOL (in) | Symbols & Footnotes |
|-------|------|-------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|---------|----------|---------------------|
| 18    | T17  | BY22D | 69510          | <b>SOX18</b>          | L69       | 12      | Clear       | BU ± 110°          | E       | 16000                | 1800                    | 1800    | 8.5      |                     |
| 35    | T17  | BY22D | 69511          | <b>SOX35</b>          | L70       | 12      | Clear       | BU ± 110°          | E       | 16000                | 4500                    | 1800    | 12.24    |                     |
| 55    | T17  | BY22D | 69512          | <b>SOX55</b>          | L71       | 12      | Clear       | BU ± 110°          | E       | 16000                | 7300                    | 1800    | 16.73    |                     |
| 90    | T21  | BY22D | 69513          | <b>SOX90</b>          | L72       | 12      | Clear       | HOR ± 20°          | E       | 16000                | 13500                   | 1800    | 20.79    |                     |
| 135   | T21  | BY22D | 69514          | <b>SOX135</b>         | L73       | 12      | Clear       | HOR ± 20°          | E       | 16000                | 22000                   | 1800    | 30.51    |                     |
| 180   | T21  | BY22D | 69515          | <b>SOX180</b>         | L74RF     | 9       | Clear       | HOR ± 20°          | E       | 16000                | 30000                   | 1800    | 44.1     |                     |

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**GUIDE TO MERCURY VAPOR LAMPS**



OSRAM SYLVANIA Mercury lamps are designed primarily for use in general lighting applications where good efficiency and long life are desired while color rendering requirements are moderate. Applications include street lighting, industrial hi-bay, parking lot lighting, and general flood-lighting.

**STANDARD MERCURY** — Available in a wide range of lamp types from 40-1000 watts, in both clear and coated configurations, Mercury vapor lamps are ideal for a variety of lighting applications. PAR lamps offer floodlighting and ultra-violet spectra for special lighting applications.

**MERCURY SAFELINE®** — Designed to self extinguish when the outer bulb is broken, Mercury Safeline lamps are recommended for use in fixtures installed in sports facilities and other places of public assembly where lamps may be subject to breakage by external objects.

**WARNING**

**STANDARD MERCURY "R" LAMPS**

**I. RUPTURE RISKS:** This Mercury lamp is constructed of an outer glass bulb with an internal arc-tube made of quartz. Mercury arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
2. Fixture lens/diffuser material must be able to contain hot lamp fragments (as high as 1832° F, 1000° C). If you are uncertain, contact your fixture manufacturer.
3. Never expose an operating lamp to moisture (such as rain, sleet, or snow).
4. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
5. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
6. Replace lamp at or before the end of rated life. (See catalog for rated life.)

**II. ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp when power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.

**III. ULTRAVIOLET RADIATION EXPOSURE:**

**WARNING:** THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORT WAVE ULTRAVIOLET RADIATION IF OUTER ENVELOPE OF THE LAMP IS BROKEN OR PUNCTURED. DO NOT USE WHERE PEOPLE WILL REMAIN FOR MORE THAN A FEW MINUTES UNLESS ADEQUATE SHIELDING OR OTHER SAFETY PRECAUTIONS ARE USED. LAMPS THAT WILL AUTOMATICALLY EXTINGUISH WHEN THE OUTER ENVELOPE IS BROKEN OR PUNCTURED ARE COMMERCIALY AVAILABLE.

THIS PRODUCT CONFORMS TO THE FOLLOWING FEDERAL REGULATIONS:

U.S.A.: 21 CFR 1040.30

CANADA: SOR/80-381

**IV. INSTALLATION:**

1. Screw lamp firmly but not forcibly into socket to avoid breakage.
2. To avoid damaging a lamp, never install it into an ordinary household socket.
3. This lamp may be operated in any position.

**V. BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

## WARNING

### MERCURY SAFELINE®

THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This Mercury lamp is constructed of an outer glass bulb with an internal arc-tube made of quartz. Mercury arc-tubes operate at high pressure and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp with compatible ballast and fixture. (See catalog for specific information.)
  2. Fixture lens/diffuser material must be able to contain hot lamp fragments (as high as 1832°F, 1000°C). If you are uncertain, contact your fixture manufacturer.
  3. Never expose an operating lamp to moisture (such as rain, sleet, or snow).
  4. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
  5. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
  6. Replace lamp at or before the end of rated life. (See catalog for rated life.)
- II. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp when power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.
- III. **ULTRAVIOLET RADIATION EXPOSURE:**  
**WARNING:** This lamp should self-extinguish within 15 minutes after the outer envelope is broken or punctured. If such damage occurs, **TURN OFF AND REMOVE LAMP** to avoid possible injury from hazardous shortwave ultraviolet radiation.

THIS PRODUCT CONFORMS TO THE FOLLOWING FEDERAL REGULATIONS:  
U.S.A.: 21 CFR 1040.30                      CANADA: SOR/80-381

IV. **INSTALLATION:**

1. Screw lamp firmly but not forcibly into socket to avoid breakage.
  2. To avoid damaging a lamp, never install it into an ordinary household socket.
  3. This lamp may be operated in any position.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

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E17



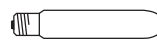
ET23.5, BT28



PAR38



R30/R40



T (Mog base)



BT56



BT37

## MERCURY MERCURY STANDARD

| Watts | Bulb   | Base        | Product Number | Ordering Abbreviation   | ANSI Code | Pkg Qty | Beam Type | Beam Angle | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Arc Length (in) | Symbols & Footnotes |
|-------|--------|-------------|----------------|---|-----------|---------|-----------|------------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|-----------------|---------------------|
| 40    | E17    | E26 Med     | 69400          | <b>H45/46DL-40/50/DX</b><br><i>Note: LCL = 3 1/8 in; MOL = 5 1/8 in</i> | H45/H46   | 20      |           |            | Coated      | Universal          |         | 24000+               | 1580                    | 1300                 | 45  | 4000    |                 | 39,46,47            |
| 75    | E17    | E26 Med     | 69402          | <b>H43AV-75/DX</b>  | H43       | 20      |           |            | Coated      | Universal          |         | 24000+               | 2700                    | 1800                 | 45  | 4300    |                 | 39,47               |
| 100   | E17    | E26 Med     | 69403          | <b>H38AV-100/DX</b>   | H38       | 20      |           |            | Coated      | Universal          |         | 24000+               | 4000                    | 3560                 | 45  | 4000    |                 | 39,47               |
|       | ET23.5 | E39 Mogul   | 69407          | <b>H38HT-100</b>  | H38       | 20      |           |            | Clear       | Universal          |         | 24000+               | 4000                    | 3000                 | 22  | 5900    |                 | 39,47               |
|       |        |             | 69408          | <b>H38JA-100/DX</b>   | H38       | 20      |           |            | Coated      | Universal          |         | 24000+               | 4100                    | 3300                 | 45  | 4000    |                 | 39,47               |
|       | PAR38  | AD Med Skt  | 68843          | <b>H44GS-100SP</b>  | H44       | 12      | SP        | 8          |             | Universal          |         | 16000                | 2500                    | 1950                 | 20  | 5900    |                 |                     |
|       |        | E26 Med Skt | 68846          | <b>H44JM-100/MDSKSP</b>   | H44       | 12      | SP        | 8          |             | Universal          |         | 16000                | 2500                    | 1950                 | 20  | 5900    |                 |                     |
|       | R40    | E26 Med     | 69405          | <b>H38BP-100/DX</b>   | H38       | 10      | FL        |            | Coated      | Universal          |         | 24000+               | 2500                    | 2000                 | 45  | 4000    |                 | 39,47               |
| 175   | ED28   | E39 Mogul   | 69444          | <b>H39KB-175</b>  | H39       | 6       |           |            | Clear       | Universal          |         | 24000+               | 7700                    | 7150                 | 22  | 5900    |                 | 39,47               |
|       |        |             | 69445          | <b>H39KC-175/DX</b>   | H39       | 6       |           |            | Coated      | Universal          |         | 24000+               | 8400                    | 6800                 | 45  | 4000    |                 | 39,47               |
|       | R40    | E26 Med     | 69406          | <b>H39BP-175/DX</b>   | H39       | 10      | FL        |            | Coated      | Universal          |         | 24000+               | 5100                    | 4100                 | 45  | 4000    |                 | 39,47               |
| 250   | ED28   | E39 Mogul   | 69447          | <b>H37KB-250</b>  | H37       | 6       |           |            | Clear       | Universal          |         | 24000+               | 11600                   | 10800                | 22  | 5900    |                 | 39,47               |
|       |        |             | 69448          | <b>H37KC-250/DX</b>   | H37       | 6       |           |            | Coated      | Universal          |         | 24000+               | 12500                   | 10000                | 45  | 4000    |                 | 39,47               |
| 400   | ED37   | E39 Mogul   | 69449          | <b>H33CD-400</b>  | H33       | 6       |           |            | Clear       | Universal          |         | 24000+               | 20000                   | 18700                | 22  | 5900    |                 | 39,47               |
|       |        |             | 69450          | <b>H33GL-400/DX</b>   | H33       | 6       |           |            | Coated      | Universal          |         | 24000+               | 23000                   | 16200                | 43  | 4000    |                 | 39,47               |
|       | T16    | E39 Mogul   | 68893          | <b>H33AR-400</b>  | H33       | 6       |           |            | Clear       | Universal          |         | 12000                | 19500                   | 16500                | 16  | 5900    |                 | 47                  |
| 1000  | BT56   | E39 Mogul   | 69332          | <b>H34GW-1000/DX</b>  | H34       | 6       |           |            | Coated      | Universal          |         | 16000+               | 55000                   | 44000                | 45  | 4000    |                 | 39,47,48            |
|       |        |             | 69307          | <b>H36GV-1000</b>   | H36       | 6       |           |            | Clear       | Universal          |         | 24000+               | 55200                   | 50000                | 22  | 5900    |                 | 39,47,48            |
|       |        |             | 69331          | <b>H36GW-1000/DX</b>  | H36       | 6       |           |            | Coated      | Universal          |         | 24000+               | 58000                   | 48500                | 45  | 4000    |                 | 39,47,48            |

## MERCURY SAFELINE®

Self-Extinguishing

| Watts | Bulb | Base      | Product Number | Ordering Abbreviation | ANSI Code | Pkg Qty | Lamp Finish | Operating Position | Fix Req | Avg Rated Life (hrs) | Approx Lumens (initial) | Approx Lumens (mean) | CRI | CCT (K) | Symbols & Footnotes |
|-------|------|-----------|----------------|-----------------------|-----------|---------|-------------|--------------------|---------|----------------------|-------------------------|----------------------|-----|---------|---------------------|
| 400   | BT37 | E39 Mogul | 69451          | <b>H33GL-T400/DX</b>  | H33       | 6       | Coated      | Universal          |         | 24000+               | 19800                   | 16000                | 45  | 4000    | 39,47               |

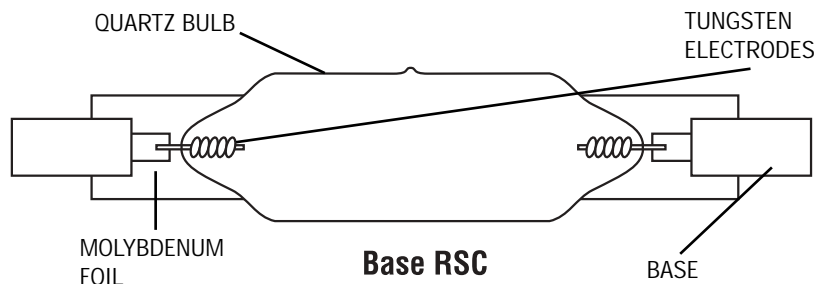
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## GUIDE TO REPROGRAPHIC / PHOTOCHEMICAL LAMPS



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### UNJACKETED REPROGRAPHIC / PHOTOCHEMICAL, F-TYPE LAMP



THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

- I. **RUPTURE RISKS:** This High Intensity Discharge (HID) lamp is constructed with a quartz arc-tube which operates at high pressure and at very high temperatures. The arc-tube can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2012°F, 1100°C). If you are uncertain, contact your fixture manufacturer.
  2. Only operate lamp with compatible ballast (including capacitor and ignitor) and fixture.
  3. Only operate lamp in horizontal position (Maximum deviation from horizontal is 15°).
  4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
  5. Never expose an operating lamp to moisture (such as rain, sleet or snow).
  6. Replace lamp if bulb is scratched, cracked or damaged in any way.
  7. Keep all metals at least 3 inches from the body of the arc-tube to avoid glass decomposition.
  8. Do not operate lamps when output radiation falls below 75% of its initial value.
- II. **ULTRAVIOLET RADIATION HAZARD:** THIS LAMP EMITS ULTRAVIOLET (UV) POWER DURING OPERATION AND IS IN RISK GROUP 3 PER ANSI-IESNA Rp-27.3-96. THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORTWAVE ULTRAVIOLET RADIATION. KEEP OUT OF DIRECT OR INDIRECT LIGHT DURING OPERATION UNLESS APPROPRIATE EYE AND SKIN PROTECTION IS WORN. A POWER INTERLOCK DEVICE IS RECOMMENDED TO AUTOMATICALLY TURN OFF THE LAMP IF THE FIXTURE ASSEMBLY IS OPENED.
- DUE TO THE ULTRAVIOLET HAZARD, THIS LAMP IS TO BE USED **ONLY** IN EQUIPMENT SPECIFICALLY DESIGNED FOR USE WITH THIS LAMP AND RECOMMENDED FOR ITS USE BY THE EQUIPMENT MANUFACTURER.
- III. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. Allow lamp to cool before removing.
- IV. **LAMP INSTALLATION AND FIXTURE:** Do not remove lamp from package until ready for use and then handle only with clean cotton gloves. If lamp is handled, fingerprints, grease or oils may be removed from the bulb by wiping with alcohol. This will remove materials which cause whitish spotting (devitrification) and premature lamp failure. Dry lamp carefully with clean cotton cloth.
1. Install lamps without undue pressure.
  2. Ensure that lamp electrical connections are secure and nothing is touching bulb.
  3. The seal base temperature must not exceed 350° C and the bulb wall temperature, as measured in center, must be maintained between 600° C and 700° C.
  4. If cooling is required to maintain the seal/base and the bulb wall temperatures of item 3 above, air interlock vane switches are recommended to protect against fan-motor failure.
  5. All seal gaskets and wire insulation must be shielded from the UV radiation produced by this lamp.
  6. Fixture wiring must have a temperature rating of 250° C and a minimum voltage rating of 600V RMS for lamps of less than 1000 watts and 1500V RMS for lamps of 1000 watts or greater.
  7. For maximum performance, all double-ended lamps must be operated with the arc-tube tip up.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

## JACKETED REPROGRAPHIC / PHOTOCHEMICAL, E-TYPE LAMP



THE FOLLOWING INSTRUCTIONS MUST BE COMPLIED WITH TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.

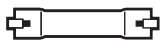
- I. **RUPTURE RISKS:** This High Intensity Discharge (HID) lamp is constructed with a quartz arc-tube which operates at high pressure and at very high temperatures. The arc-tube can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. In the event of such rupture, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**TO REDUCE THESE RISKS:**

1. Only operate lamp in an enclosed fixture with a lens/diffuser material able to contain hot lamp fragments (up to 2012°F, 1100°C). If you are uncertain, contact your fixture manufacturer.
  2. Only operate lamp with compatible ballast (including capacitor and ignitor) and fixture.
  3. Only operate lamp in horizontal position. (Maximum deviation from horizontal is 15°).
  4. Lamp must be turned off for a minimum of fifteen minutes at least once a week.
  5. Never expose operating lamp to moisture (such as rain, sleet or snow).
  6. Replace lamp if outer glass bulb is scratched, cracked or damaged in any way.
  7. Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
  8. Do not operate lamps when output radiation falls below 75% of its initial value.
- II. **ULTRAVIOLET RADIATION EXPOSURE:** THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORTWAVE ULTRAVIOLET RADIATION IF THE OUTER ENVELOPE OF THE LAMP IS BROKEN OR PUNCTURED. DO NOT USE WHERE PEOPLE WILL REMAIN FOR MORE THAN A FEW MINUTES UNLESS ADEQUATE SHIELDING OR OTHER SAFETY PRECAUTIONS ARE USED.
- III. **ELECTRICAL SHOCK AND BURN HAZARD:** Do not remove or insert lamp while power is on. If outer glass bulb is broken, shut off power immediately and remove lamp after it has cooled.
- IV. **LAMP INSTALLATION:**
1. Screw lamp firmly but not forcibly into socket to avoid breakage.
  2. Never install the lamp into an ordinary household socket.
- V. **BROKEN ARC-TUBE:** Take care in handling and disposing of this lamp. If arc-tube is broken, avoid skin contact with any of the contents and fragments. See Product Safety Data Sheet for further details.

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T (RSC base)



ET23.5, BT28



ET18



BT37

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## REPROGRAPHIC / PHOTOCHEMICAL

### REPROGRAPHIC

| Watts | Bulb | Base | Product Number     | Ordering Abbreviation | Pkg Qty | Operating Position | Fix Req | MOL (in) | Arc Length (in) | Primary Line(s) of Emission | Symbols & Footnotes |
|-------|------|------|--------------------|-----------------------|---------|--------------------|---------|----------|-----------------|-----------------------------|---------------------|
| 400   | T5.5 | J    | 66621 <sup>☼</sup> | MP400T5.5/1.5J        | 10      | HOR ± 15°          | F       | 4.5      | 1.375           | 417nm                       | 29,31,49            |
| 1200  | T5.5 | J    | 66573 <sup>☼</sup> | MP1200T5.5/6J         | 10      | HOR ± 15°          | F       | 9        | 6               | 417nm                       | 29,31,49            |
| 3000  | T8   | J    | 66562              | MP3000T8/6J           | 10      | HOR ± 15°          | F       | 9.375    | 5.75            | 417nm                       | 29,31,49            |

### LAMP & BALLAST SYSTEM

| Watts | Product Number     | Ordering Abbreviation               | ANSI Code | Pkg Qty | Ballast Product Number | Ballast Voltage (VAC) | Circuit Type | Lamp Product Number | Bulb   | Base      | Lamp Finish | Fix Req | Symbols & Footnotes |
|-------|--------------------|-------------------------------------|-----------|---------|------------------------|-----------------------|--------------|---------------------|--------|-----------|-------------|---------|---------------------|
| 100   | 67621              | LU100/ECO LAMP/MULTI-BALLAST KIT    | S54       | 1       | 47316                  | 120/208/240/277       | CWA          | 67514               | ET23.5 | E39 Mogul | Clear       |         | 10                  |
| 150   | 67629              | LU150/55/ECO LAMP/MULTI BALLAST KIT | S55       | 1       | 47335                  | 120/208/240/277       | CWA          | 67516               | ET23.5 | E39 Mogul | Clear       |         | 10                  |
| 175   | 64782 <sup>☼</sup> | M175/U LAMP/SUPER5 BALLAST KIT      | M57/E     | 1       | 47243                  | 120/208/240/277/480   | CWA          | 64471               | BT28   | E39 Mogul | Clear       | E       | 2                   |
| 250   | 67622 <sup>☼</sup> | LU250/ECO LAMP/SUPER5 BALLAST KIT   | S50       | 1       | 47634                  | 120/208/240/277/480   | CWA          | 67578               | ET18   | E39 Mogul | Clear       |         | 10                  |
|       | 64784 <sup>☼</sup> | M250/U LAMP/SUPER5 BALLAST KIT      | M58/E     | 1       | 47265                  | 120/208/240/277/480   | CWA          | 64457               | BT28   | E39 Mogul | Clear       | E       | 2                   |
| 400   | 67623 <sup>☼</sup> | LU400/ECO LAMP/SUPER5 BALLAST KIT   | S51       | 1       | 47647                  | 120/208/240/277/480   | CWA          | 67533               | ET18   | E39 Mogul | Clear       |         | 10                  |
|       | 64781 <sup>☼</sup> | M400/U LAMP/SUPER5 BALLAST KIT      | M59/S     | 1       | 47338                  | 120/208/240/277/480   | CWA          | 64490               | BT37   | E39 Mogul | Clear       | S       | 20                  |





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## SYMBOLS & FOOTNOTES FOR HIGH INTENSITY DISCHARGE (HID) LAMPS

| Symbol  | Description  |
|---|--|
|  | New item introduced within the past year.  |
|  | Item will be discontinued when inventory is depleted.  |
|  | This ECOLOGIC® lamp was designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states. Disposal regulations may vary; check local and state regulations. |
|  | This lamp is a High Color Rendering Lamp   |

| Footnote | Description  |
|----------|--|
| 1        | Consult your OSRAM SYLVANIA Lighting Representative for compatible electronic operating systems.   |
| 2        | E = Lamps classified as E-type are to be used ONLY in suitably enclosed luminaries. See lamp warning.  |
| 3        | The circuit must include overcurrent protection (I.e. Thermally switched ballast).   |
| 4        | Lamp requires a nominal Open Circuit Voltage of 230V or higher. Without an ignitor in the circuit minimum OCV is 209Vrms.  |
| 5        | UV-Stop quartz   |
| 6        | Lamps may be operated on ANSI M98 Compliant Ballast.   |
| 7        | Lamps may be operated on ANSI M85 or M98 Compliant ballasts.   |
| 8        | Lamps may be operated on a M142 Compliant ballast.   |
| 9        | Lamps may be operated on ANSI M142 or M81 Compliant ballasts.  |
| 10       | Use with 4000V pulse rated sockets only.   |
| 11       | O = Lamps classified as O-type, comply with ANSI standard C78.387 for containment testing and may be used in open luminaries. See lamp warning.  |
| 12       | Lamps may be operated on ANSI M140 Compliant Ballast.  |
| 13       | When operated on ballasts having a sustaining voltage less than 270V, lamp life may be significantly reduced.  |
| 14       | Beam angle conversion from 30 to 40 degrees in April 2004. Engineering estimate for CBCP is 10000.   |
| 15       | Passes Federal TCLP test based on NEMA LL Series Standards. TCLP data available upon request. Disposal regulations may vary depending on location. Please check your local and state regulations   |
| 16       | Lamps with a E26 medium skirt base are not compatible with exclusionary medium sockets.  |
| 17       | Lamps may be operated on ANSI M132 (320W) Compliant ballasts.  |
| 18       | Lamps may be operated on ANSI M135 (400W) Compliant ballasts.  |
| 19       | 20,000 average rated life based on 10 hrs/start. 30,000 average rated life based on 120 hrs/start.   |
| 20       | S = When operated within 15 degrees of vertical, this lamp may be operated in an open luminaire provided the installation is not near people or flammable or combustible material, otherwise it must be operated in a suitably enclosed luminaire. See lamp warning.   |
| 21       | When operating on a ballast with a sustaining voltage less than 310V, lamp life may be significantly reduced.  |
| 22       | Operates at 150W on a 175W M57 ballast or a M107 ballast.  |
| 23       | Please consult your ballast and fixture manufacturer for compatible systems.   |
| 24       | Operates at 360 watts on 400w M59 ballast or a M165 ballast.   |
| 25       | Horizontally oriented lamps require a position oriented mogul (POM) socket to accept position oriented mogul bases.  |
| 26       | Lamps may be operated M155 or M135 pulse start ballast with a sustaining voltage greater than 270V. Performance will be as rated on a M59 ballast.   |
| 27       | Lamps may be operated on ANSI M137 Compliant ballasts.   |
| 28       | Published rated life based on 5 hours per start. Life rating will increase to 6,000 hours if operated for at least 10 hours per start in the base position. Lumens will be lower for operating positions other than base up. See lumen tilt factor curve.  |
| 29       | Use in equipment where gasket material is protected from all lamp radiation.   |
| 30       | Consult your OSRAM SYLVANIA Lighting Representative for lamp/ballast compatibility.  |
| 31       | F = Enclosed luminaire with UV filter and lens interlock required. WARNING: This lamp emits ultraviolet radiation which can cause serious skin burn and eye inflammation. Additionally, this lamp operates under high pressure at very high temperatures. Should the lamp break there can exist a danger of personal injury and/or fire from the broken lamp particles being discharged. This lamp should only be used in fully enclosed luminaire with ultraviolet (UV) filter tempered glass lens capable of containing any particles discharges by breakage. Do not use this lamp if the filter lens is damaged or missing. This lamp should only be used in luminaires equipped with safety interlock lens switches. See lamp warning. |
| 32       | For use where seal temperature does not exceed 350° C.   |
| 33       | Lamps must be operated on CW/CWA ballasts only   |

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**SYMBOLS & FOOTNOTES FOR HIGH INTENSITY DISCHARGE (HID) LAMPS**

| Footnote | Description   |
|----------|---|
| 34       | Requires POWERTRONIC Ballast.   |
| 35       | Requires 3000V minimum pulse.   |
| 36       | Voltage rise due to fixture effect is to be evaluated using standard lamp types and not LUMALUX PLUS®/ECO® or LUMALUX® MERCURY FREE/ECO lamp types. |
| 37       | 55 Volt lamp.   |
| 38       | LU150/100 and LU150/55 lamps are not interchangeable.   |
| 39       | Mean lumens measured at 50% of average rated life   |
| 40       | 100 Volt lamp.  |
| 41       | Use with 5000V pulse rated sockets only.  |
| 42       | Standby feature not guaranteed beyond 24,000 operating hours.   |
| 43       | UNALUX® lamps must be operated on mercury lag or reactor ballasts only.   |
| 44       | The ULX880 lamp should not be used on any circuit other than 480V H36 mercury reactor.  |
| 45       | Use with 4-5kV ignitor.   |
| 46       | Operates at 40 watts on H45 ballast, 50 watts on H46 ballast.   |
| 47       | In general, Horizontal lumen values will be 5-10% lower than the vertical lumen values.   |
| 48       | H34 and H36 lamps are not interchangeable.  |
| 49       | Unjacketed reprographical/photochemical lamp.   |

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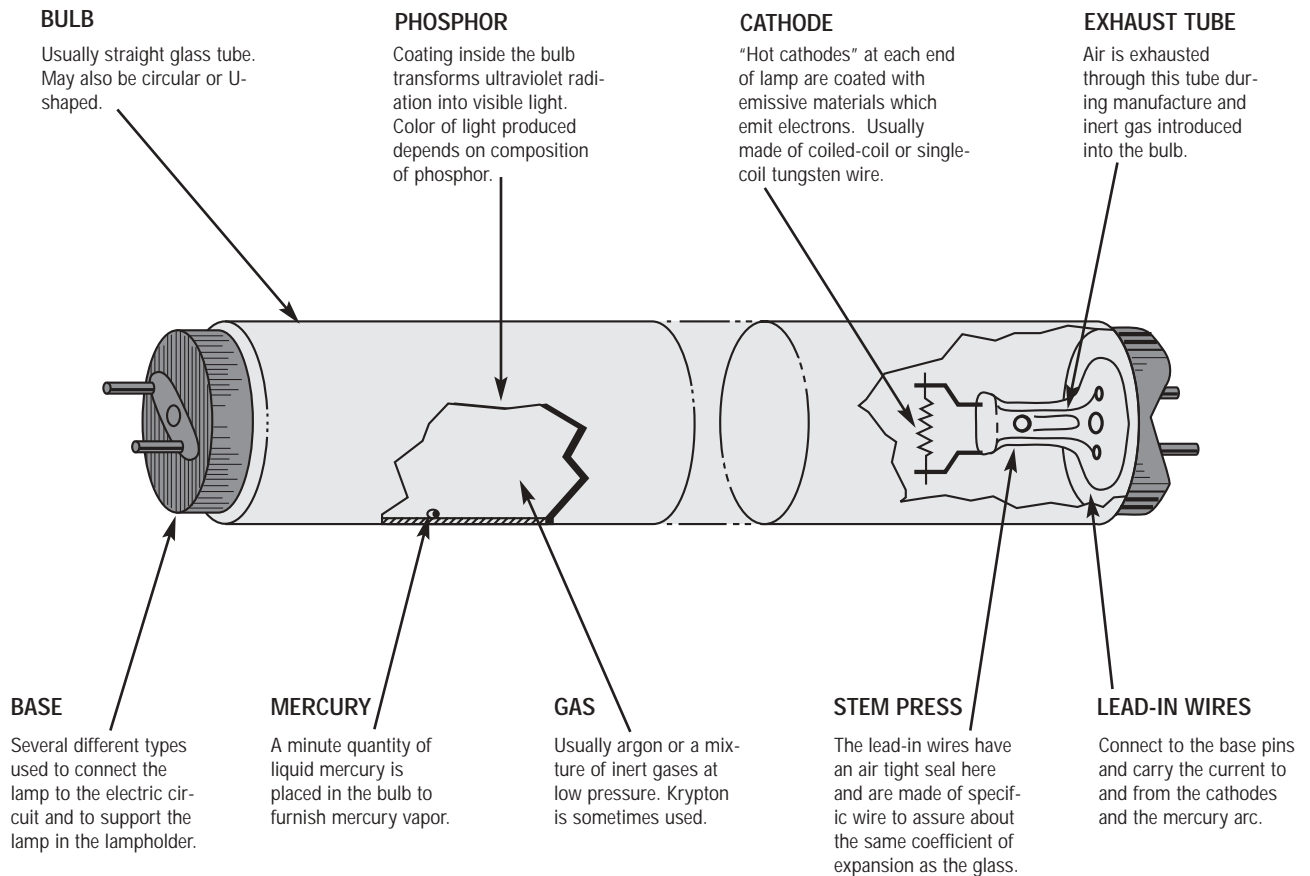
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## OSRAM SYLVANIA: THE LEADER IN ENERGY SAVING FLUORESCENT LAMPS

The fluorescent lamp is an electric discharge device which utilizes a low pressure mercury vapor arc to generate ultra-violet (plus a little visible) energy. The ultra-violet energy is absorbed by a phosphor coat on the inside of the glass tube and converted by the phosphor to visible wavelengths; the wavelengths of the light generated are determined by the composition of the phosphor. In addition to the small amount of mercury vapor, the fluorescent tube contains an atmosphere of an inert gas, usually argon, krypton, neon, or a mixture of two or more of these gases. The pressure of the gases contained in the lamp is very low, usually from 2 to 3 torr. Atmospheric pressure is 760 torr.



**HOW TO READ PRODUCT INFORMATION - COMPACT FLUORESCENT**

| Nominal Wattage | Bulb | MOL (in) | MOL (mm) | Base    | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Initial Lumens @25°C/77°F | Approx Mean Lumens | Symbols & Footnotes     |
|-----------------|------|----------|----------|---------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|----------------------------------|--------------------|-------------------------|
| 20              | T4   | 6.3      | 160      | Med     | 29296          | CF20EL/830/MED        |                          | 6       | 6000                 | 3000    | 82  | 1280                             | 1101               | ☑ ☒ ☓ 2,21,28, 36,63,64 |
| 26              | T4   | 6.8      | 173      | G24D-3  | 20710          | CF26DD/830            | CFQ26W/G24D/30           | 50      | 10000                | 3000    | 82  | 1800                             | 1548               | ☑ ☒ 2,21,28, 34,37      |
| 32              | T4   | 5.5      | 140      | GX24Q-3 | 20885          | CF32DT/E/IN/835       | CFTR32W/GX24Q/35         | 50      | 10000                | 3500    | 82  | 2400                             | 2064               | ☑ ☒ 2,21,28, 33,35,59   |
| 40              | T5   | 22.6     | 573      | 2G11    | 20586          | FT40DL/841/RS         | FT40W/2G11/RS/41         | 10      | 20000                | 4100    | 82  | 3150                             | 2709               | ☑ 2,21,28               |

|                                  |   |
|----------------------------------|---|
| <b>Nominal Wattage</b>           | Design wattage on reference ballast. Actual wattage dependent on ballast.   |
| <b>Bulb</b>                      | Describes the shape of the bulb followed by the bulb's diameter at its widest point. The diameter value is expressed in eighths of an inch. Ex. T = Tubular, 4 = 4/8 inch = 1/2 inch. Please see page 103 for bulb illustrations. |
| <b>Base</b>                      | Base designations for compact fluorescent lamps are the NEMA designations. Please see page 104 for base illustrations.  |
| <b>MOL</b>                       | Maximum overall length. The actual length of the lamp measured from the bottom of the base to the top outside edge of the glass. In many cases, the bottom of the base is the bottom of the center post of the base of the lamp.  |
| <b>Symbols &amp; Footnotes</b>   | Most symbols and footnotes that apply to a specific product will appear in this space. The explanations of the symbols and footnotes are at the end of the fluorescent section.   |
| <b>Ordering Abbreviation</b>     | A text description of the lamp. Please see below for several examples and explanations of some of the codes.  |
| <b>NEMA Generic Designation</b>  | Designation assigned by NEMA (National Electrical Manufacturers Association).   |
| <b>CCT</b>                       | Correlated Color Temperature. The degree of "whiteness" of the light. Expressed in kelvins (K). Please see page 99 for more information.  |
| <b>CRI</b>                       | Color Rendering Index. A numbering system for rating the relative color rendering quality of a light source compared to a standard. Please see page 99 for more information.  |
| <b>Initial &amp; Mean Lumens</b> | Initial lumens are measured when the lamp has been operating for 100 hours. Mean lumens are typically measured at 40% of the rated life of the lamp. Compact Fluorescent lamp lumens are measured at 25°C (77°F).                 |

**How to Read Ordering Abbreviations**

| CF26DD/830 |                      | CF32DT/E/IN/835 |                                 | FT40DL/841/RS |                      | CF20EL/830/MED |                      |
|------------|----------------------|-----------------|---------------------------------|---------------|----------------------|----------------|----------------------|
| CF         | Compact Fluorescent  | CF              | Compact Fluorescent             | FT            | Fluorescent Twin     | CF             | Compact Fluorescent  |
| 26         | Nominal lamp wattage | 32              | Nominal lamp wattage            | 40            | Nominal lamp wattage | 20             | Nominal lamp wattage |
| DD         | DULUX Double         | DT              | DULUX Triple                    | DL            | DULUX Long           | EL             | Electronic Lamp      |
| 8          | 82 CRI               | E               | Electronic or dimming operation | 8             | 82 CRI               | 8              | 82 CRI               |
| 30         | 3000K CCT            | IN              | Amalgam                         | 41            | 4100K CCT            | 30             | 3000K CCT            |
|            |                      | 8               | 82 CRI                          | RS            | Rapid Start          | MED            | Medium screw base    |
|            |                      | 35              | 3500K CCT                       |               |                      |                |                      |

**DULUX® LAMP FAMILIES**

- CF... DS = DULUX Single, 2-pin for magnetic operation, ECOLOGIC®
- CF... DS/E = DULUX Single, 4-pin for electronic or dimming operation
- CF... DD = DULUX Double, 2-pin for magnetic operation, ECOLOGIC
- CF... DD/E = DULUX Double, 4-pin for electronic or dimming operation, ECOLOGIC
- CF... DT = DULUX Triple, 2-pin for magnetic operation, ECOLOGIC
- CF... DT/E = DULUX Triple, 4-pin for electronic or dimming operation, ECOLOGIC
- CF... DT/E/IN = DULUX Triple, 4-pin for electronic or dimming operation, amalgam, ECOLOGIC
- FT... DL = Fluorescent Twin, DULUX Long, 4-pin
- CF... DF = DULUX Flat, 4-pin
- CF... EL = DULUX self-ballasted, medium screw base



**HOW TO READ PRODUCT INFORMATION - FLUORESCENT**

| Nominal Wattage | Bulb | Nominal Length(in) | MOL (in) | Base       | Product Number | Ordering Abbreviation         | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Initial Lumens @25°C/77°F | Approx Mean Lumens @35°C/95°F | Symbols & Footnotes       |
|-----------------|------|--------------------|----------|------------|----------------|-------------------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------------|
| 32              | T8   | 48                 | 47.78    | Med Bipin  | 21763          | F032/835XP/ECO                | 30      | 24000                | 3500    | 85  | 3000                             | 2850                          | Ⓢ Ⓜ Ⓜ 2,21,31,35,39,60,70 |
| 34              | T12  | 48                 | 47.78    | Med Bipin  | 24594          | F34CW/SS<br>Formerly F40CW/SS | 30      | 20000                | 4200    | 62  | 2650                             | 2279                          | Ⓢ 2,10,13,19,21,42        |
| 54              | T5   | 48                 | 45.5     | Mini Bipin | 20857          | FP54/830/HO                   | 40      | 20000                | 3000    | 82  | 4450<br>5000                     | 4228<br>4750                  | Ⓜ 2,21,26,35,59           |
| 60              | T12  | 96                 | 94       | Single Pin | 29815          | F96T12/CW/SS                  | 15      | 12000                | 4200    | 62  | 5300                             | 4664                          | Ⓢ 2,15,21                 |

|                                  |   |
|----------------------------------|---|
| <b>Nominal Wattage</b>           | Design wattage on reference ballast. Actual wattage dependent on ballast.   |
| <b>Bulb</b>                      | Describes the shape of the bulb followed by the bulb's diameter at its widest point. The diameter value is expressed in eighths of an inch. Ex. T = Tubular, 8 = 8/8 inch = 1 inch. Please see page 103 for bulb illustrations.   |
| <b>Base</b>                      | Please see page 104 for base illustrations.   |
| <b>Nominal Length</b>            | The nominal length of linear fluorescent lamps is typically measured from back of lampholder to back of lampholder. PENTRON® linear lamp, CURVALUME® and Circline lamps are exceptions. The nominal length given for PENTRON linear lamps is the closest familiar nominal length. CURVALUME lamps are measured from the face of the bases to the outside of the glass bend. The measurement for Circline lamps is the outside diameter. Values are in inches.                       |
| <b>MOL</b>                       | Maximum overall length. The length of the lamp measured in inches.  |
| <b>Symbols &amp; Footnotes</b>   | Most symbols and footnotes that apply to a specific product will appear in this space. The explanations of the symbols and footnotes are at the end of the fluorescent section.   |
| <b>Ordering Abbreviation</b>     | A text description of the lamp. Please see below for several examples and explanations of some of the codes.  |
| <b>CCT</b>                       | Correlated Color Temperature. The degree of "whiteness" of the light. Expressed in kelvins (K). Please see page 99 for more information.  |
| <b>CRI</b>                       | Color Rendering Index. A numbering system for rating the relative color rendering quality of a light source compared to a standard. Please see page 99 for more information.  |
| <b>Initial &amp; Mean Lumens</b> | Initial lumens are measured when the lamp has been operating for 100 hours. Mean lumens are typically measured at 40% of the rated life of the lamp. For longer life lamp such as the OCTRON® XP™ lamps, the mean lumens are measured at the same point in time as they are measured for the standard lamps they replace. Fluorescent lamp lumens are typically measured at 25°C (77°F). The lamp lumens are measured at both 25°C (77°F) and 35°C (95°F) for PENTRON linear lamps. |

**How to Read Ordering Abbreviations**

| F032/835XP/ECO |                               | F34CW/SS |                                    | FP54/830/HO |                      | F96T12/CW/SS |  |
|----------------|-------------------------------|----------|------------------------------------|-------------|----------------------|--------------|--|
| F              | Fluorescent                   | F        | Fluorescent                        | F           | Fluorescent          | F            | Fluorescent                            |
| O              | OCTRON                        | 34       | Nominal lamp                       | P           | PENTRON              | 96           | 96" nominal length                     |
| 32             | Nominal lamp wattage          | CW       | Cool White phosphor                | 54          | Nominal lamp wattage | T            | Tubular Shape Bulb                     |
| 8              | 85 CRI                        | SS       | SUPERSAVER® - reduced wattage lamp | 8           | 82 CRI               | 12           | Bulb diameter; 1/8 inch = 1 1/2 inches |
| 35             | 3500K CCT                     |          |                                    | 30          | 3000K CCT            | CW           | Cool White phosphor                    |
| XP             | EXtended Performance          |          |                                    | HO          | High Output          | SS           | SUPERSAVER - reduced wattage lamp      |
| ECO®           | ECOLOGIC® - TCLP passing lamp |          |                                    |             |                      |              |  |



The following items were accepted into the 2003 IESNA Progress Report which recognizes innovative products introduced to the industry during that year.

OCTRON® 28-watt 4-foot XP™ SUPERSAVER®

OCTRON 8-foot XP SUPERSAVER

OCTRON CURVALUME®XP SUPERSAVER

5000K ICETRON®

Colored PENTRON®

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### Lamp Disposal Labeling

The following information appears on the packages of fluorescent lamps. For more information on lamp disposal labeling, see the inside back cover of this catalog.



**Lamp Contains Mercury**

Manage in accordance with disposal laws  
See [www.lamprecycle.org](http://www.lamprecycle.org) or 1-866-666-6850

## FLUORESCENT LAMP COLORS

| COLOR                           | COLOR ABBREVIATION | CORRELATED COLOR TEMPERATURE(1) | COLOR RENDERING INDEX(2) |
|---------------------------------|--------------------|---------------------------------|--------------------------|
| DULUX® 2700K                    | 827                | 2700                            | 82                       |
| OCTRON® "800" 2700K             | 827                | 2700                            | 84                       |
| OCTRON XP™ "800" 2700K          | 827                | 2700                            | 85                       |
| INCANDESCENT FLUORESCENT        | IF                 | 2750                            | 89                       |
| SOFT WHITE                      | Soft White         | 2900                            | 82                       |
| DELUXE WARM WHITE               | WWX                | 2900                            | 82                       |
| WARM WHITE                      | WW                 | 3000                            | 52                       |
| WARM WHITE PLUS                 | WWP                | 3000                            | 70                       |
| DESIGNER® 3000K                 | D30                | 3000                            | 70                       |
| DESIGNER WARM WHITE             | DWW                | 3000                            | 70                       |
| DESIGNER "800" 3000K            | D830               | 3000                            | 80                       |
| DESIGNER WARM WHITE PLUS        | DWWP               | 3000                            | 80                       |
| DULUX SOFT WHITE                | 830                | 3000                            | 82                       |
| DULUX 3000K                     | 830                | 3000                            | 82                       |
| OCTRON "700" 3000K              | 730                | 3000                            | 75                       |
| OCTRON XP "700" 3000K           | 730                | 3000                            | 78                       |
| OCTRON "800" 3000K              | 830                | 3000                            | 82                       |
| OCTRON XP "800" 3000K           | 830                | 3000                            | 85                       |
| OCTRON XPS® "800" 3000K         | 830                | 3000                            | 86                       |
| PENTRON® 3000K                  | 830                | 3000                            | 82                       |
| GRO-LUX® Aquarium WIDE SPECTRUM | GRO/AQ/WS          | 3400                            | 89                       |
| WHITE                           | W                  | 3450                            | 57                       |
| DESIGNER 3500K                  | D35                | 3500                            | 70                       |
| DESIGNER "800" 3500K            | D835               | 3500                            | 80                       |
| DULUX 3500K                     | 835                | 3500                            | 82                       |
| ICETRON® 3500K                  | 835                | 3500                            | 80                       |
| PENTRON 3500K                   | 835                | 3500                            | 82                       |
| OCTRON "700" 3500K              | 735                | 3500                            | 75                       |
| OCTRON XP "700" 3500K           | 735                | 3500                            | 78                       |
| OCTRON "800" 3500K              | 835                | 3500                            | 82                       |
| OCTRON XP "800" 3500K           | 835                | 3500                            | 85                       |
| OCTRON XPS "800" 3500K          | 835                | 3500                            | 86                       |
| NATURAL WHITE                   | N                  | 3600                            | 86                       |
| DESIGNER 4100K                  | D41                | 4100                            | 70                       |
| DESIGNER COOL WHITE             | DCW                | 4100                            | 70                       |
| DESIGNER "800" 4100K            | D841               | 4100                            | 80                       |
| DESIGNER COOL WHITE PLUS        | DCWP               | 4100                            | 80                       |
| DULUX 4100K                     | 841                | 4100                            | 82                       |
| ICETRON 4100K                   | 841                | 4100                            | 80                       |
| PENTRON 4100K                   | 841                | 4100                            | 82                       |
| OCTRON "700" 4100K              | 741                | 4100                            | 75                       |
| OCTRON XP "700" 4100K           | 741                | 4100                            | 78                       |
| OCTRON "800" 4100K              | 841                | 4100                            | 82                       |
| OCTRON XP "800" 4100K           | 841                | 4100                            | 85                       |
| OCTRON XPS "800" 4100K          | 841                | 4100                            | 86                       |
| DELUXE COOL WHITE               | CWX                | 4100                            | 87                       |
| LITE WHITE                      | LW                 | 4150                            | 48                       |
| COOL WHITE                      | CW                 | 4200                            | 62                       |
| COOL WHITE PLUS                 | CWP                | 4100                            | 70                       |
| DULUX 5000K                     | 850                | 5000                            | 82                       |
| ICETRON 5000K                   | 850                | 5000                            | 80                       |
| OCTRON "700" 5000K              | 750                | 5000                            | 75                       |
| OCTRON "800" 5000K              | 850                | 5000                            | 80                       |
| OCTRON XP "800" 5000K           | 850                | 5000                            | 85                       |
| OCTRON "900" 5000K              | 950                | 5000                            | 90                       |
| DESIGN 50®                      | DSGN50             | 5000                            | 90                       |
| DAYLIGHT™                       | D                  | 6500                            | 76                       |
| OCTRON "700" 6500K              | 765                | 6500                            | 75                       |
| OCTRON XP "800" 6500K           | 865                | 6500                            | 85                       |
| DESIGNER 6500K                  | 865                | 6500                            | 80                       |
| DAYLIGHT DELUXE                 | DX                 | 6500                            | 88                       |

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## FLUORESCENT COMPETITIVE GUIDES

NOTE: These tables are intended only as guides and may represent another lamp company's most similar product or product family rather than an identical match. Individual manufacturer's performance values should be consulted. Environmental conditions, ballast type, and other auxiliary equipment may affect lamp performance.

### FLUORESCENT BRAND NAMES

| SYLVANIA                        | GE*   | PHILIPS**  |
|---------------------------------|---|--|
| CURVALUME® (FB)                 | MOD-U-LINE (U)                              | U-Bent (FB)                                      |
| CWX                             |   | Home Light Everywhere (HL Everywhere)            |
| DESIGN 50® (DSGN50)             | Chroma 50 (C50)                             | Colortone 50 (C50)                               |
| DESIGNER® Series                | Specification Series (SP)                   | SPEC   |
| DESIGNER 800 Series             | Specification Series (SPX)                  | Ultralume  |
| DESIGNER Cool White             | SP41  | Home Light Cool (HL Cool)                        |
| DESIGNER Cool White PLUS        | SPX41                                       | 41U  |
| DESIGNER Warm White             | Kitchen and Bath ULTRA (70 CRI)             | SPEC30   |
| DESIGNER Warm White PLUS (DWWP) | Kitchen and Bath ULTRA (80 CRI)             | Home Light WX (HL WX)                            |
| DESIGNER 700, 3500K (D35)       | SP35  | Home Light Warm (HL Warm)                        |
| DULUX®                          | BIAx  | PL   |
| DULUX S                         | BIAx  | PL   |
| DULUX D, D/E                    | Double BIAx                                 | PL-C   |
| DULUX T, T/E                    | Triple BIAx                                 | PL-T   |
| DULUX F                         | ---   | ---  |
| DULUX L                         | High Lumen BIAx                             | PL-L   |
| DULUX EL                        | Electronic Self Ballasted Lamps(was Compax) | Earth Light Lamps (SLS)                          |
| ---                             | 2D  | ---  |
| ---                             | GENURA                                      | ---  |
| ECOLOGIC® (ECO®)                | Ecolux (ECO)                                | ALTO   |
| GRO-LUX®                        | Gro & Sho/Plant & Aquarium/Terrarium        | Agro-Lite (AGRO)                                 |
| ICETRON®                        | ---   | ---  |
| OCTRON®                         | T8 (was Trimline)                           | TL70/TL80  |
| OCTRON 700 XP™ ECO              | SP Ecolux XL T8 Lamps with Starcoat         | TL700 PLUS ALTO                                  |
| OCTRON 800 XP ECO               | SPX Ecolux XL T8 Lamps with Starcoat        | TL800 PLUS ALTO                                  |
| OCTRON 800 XPS ECO              | ---   | ---  |
| OCTRON 950                      | ---   | TL950  |
| PENTRON®                        | T5 Starcoat                                 | SILHOUETTE™                                      |
| ---                             | ---   | QL (similar to ICETRON, but not interchangeable) |
| SAFELINE®                       | covRguard                                   | ---  |
| SUN STICK®                      | SUN (Sunshine)                              | C50  |
| SUPERSAVER® (SS)                | Watt-Miser (WM)                             | Econ-o-Watt (EW)                                 |
| HO (800mA)                      | HO (800mA)                                  | HO (800mA)                                       |
| VHO (1500mA)                    | 1500 (1500mA) & Power Grove                 | VHO (1500mA) (was SHO)                           |
| VHO/LT                          | T10/1500MA                                  | VHO-0  |
| XP™                             | XL  | Advantage  |
| XPS®                            |   |  |

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### FLUORESCENT COLOR CROSS REFERENCE

| SYLVANIA   | GE                 | PHILIPS            | SYLVANIA | GE    | PHILIPS |
|------------|--------------------|--------------------|----------|-------|---------|
| CW         | CW                 | CW                 | D41      | SP41  | Spec 41 |
| CWX        |                    | CWX, HL Everywhere |          | SP65  |         |
| D          | D                  | D                  | D830     | SPX30 | 30U     |
| DX         | DX                 | DX                 | D835     | SPX35 | 35U     |
| DSGN50     | C50                | 50                 | D841     | SPX41 | 41U     |
| DSGN50     | SGN                | C50                | D865     |       |         |
| DCW, D41   | SP41               | HL Cool            | 730      | SP30  | 730     |
| DCWP       | SPX41              | U41                | 735      | SP35  | 735     |
| DWW, D30   | KB / 70 CRI, SP30  | SPEC30             | 741      | SP41  | 741     |
| DWWP, D830 | KB / 82 CRI, SPX30 | HL WX              | 750      | SP50  | 750     |
| D35        | SP35               | HL Warm            | 765      | SP65  |         |
| GRO/AQ     |                    | AGRO               | 827      | SPX27 | 27      |
| GRO/WS/AQ  | PL/AQ              |                    | 830      | SPX30 | 30, 830 |
| LW         | LW                 | LW                 | 835      | SPX35 | 35, 835 |
| N          | N                  | N                  | 841      | SPX41 | 41, 841 |
| SUN STICK  | SUN                | C50                | 850      | SPX50 | 50, 850 |
| WW         | WW                 | WW                 | 865      | SPX65 | 865     |
| D30        | SP30               | Spec 30            | 950      |       | 950     |
| D35        | SP35               | Spec 35            |          |       |         |

**FLUORESCENT COMPETITIVE GUIDES (continued)**

**FLUORESCENT ELECTRICAL INTERCHANGEABILITY**

| SYLVANIA                                | GE  | PHILIPS                             |
|---|---|-------------------------------------|
| <b>Linear Lamps</b>                     |   |                                     |
| F18T8/CW/K/23                           | F24*T8/CW/4                               | F15T8/CW/24                         |
| F18T8/CW/K/26                           | F26*T8/CW/4                               | F16T8/CW/26                         |
| F18T8/CW/K/28                           | F28*T8/CW/4                               | F17T8/CW/28                         |
| F18T8/CW/K/30                           | F30*T8/CW/4                               | F18T8/CW/30                         |
| F34CW/SS                                | F34CW/WM                                  | F34CW/EW                            |
| Formerly known as F40CW/SS              | F40CW/WM                                  | F40CW/EW                            |
| F96T12/CW/SS                            | F96T12/CW/WM                              | F96T12/CW/EW                        |
| FB40/D41/6                              | F40/SP41/U/6                              | FB40/SPEC41/6                       |
| FB40/CW/6/SS (new FB34/CW/6/SS)         | F40CW/U/6/WM (new F34CW/U/6/WM)           | FB40/CW/6/EW (new F34/CW/6/EW)      |
| OCTRON®                                 | T8 (was Trimline)                         | TL70/TL80                           |
| OCTRON 700 Series                       | T8 SP                                     | TL70                                |
| OCTRON 800 Series                       | T8 SPX                                    | TL80                                |
| FO17...                                 | F17T8/SP(or SPX)...                       | F17T8/TL...                         |
| FO25...                                 | F25T8/SP(or SPX)...                       | F25T8/TL...                         |
| FO32...                                 | F32T8/SP(or SPX)...                       | F32T8/TL...                         |
| FO32/...XP™                             | F32T8/XL/SP (or SPX)                      | F32T8/TL...PLUS                     |
| FO32/...XPS®/ECO®                       | ---                                       | ---                                 |
| FO30...XP/SS/ECO                        | F32T8/SP.../IS/WM/ECO                     | F32T8/ADV8.../EW                    |
| FO28/8...XP/SS/ECO                      | ---                                       | ---                                 |
| FO40...                                 | F40T8/SP... (or SPX)                      | F40T8/TL                            |
| FO72...                                 | ---                                       | ---                                 |
| FO96...                                 | F96T8/SP... (or SPX)                      | F96T8/TL...                         |
| FO96/7...XP/ECO                         | F96T8/XL.SP...                            | ---                                 |
| FO96/8...XP/ECO                         | F96T8/XL/SPX...                           | ---                                 |
| FO96/8...XP/SS/ECO                      | F96T8/SP.../WM                            | ---                                 |
| ---                                     | ---                                       | F48T8/TL.../HO                      |
| ---                                     | ---                                       | F60T8/TL.../HO                      |
| ---                                     | ---                                       | F72T8/TL.../HO                      |
| FO96.../HO                              | F96T8/SP (or SPX).../HO                   | F96T8/TL.../HO                      |
| ---                                     | F25T12/SP... (for T8 electronic ballasts) | ---                                 |
| FBO16...                                | ---                                       | ---                                 |
| FBO24...                                | ---                                       | ---                                 |
| FBO31...                                | F31T8/SPX.../U                            | ---                                 |
| FBO31...XP                              | ---                                       | ---                                 |
| FBO32...                                | F32T8/SP(or SPX).../U6                    | FB32T8/TL.../6                      |
| FBO32...XP                              | ---                                       | ---                                 |
| FBO31/...XPS/ECO                        | ---                                       | ---                                 |
| FBO32/...XPS/ECO                        | ---                                       | ---                                 |
| FBO32/8...XP/SS/ECO                     | ---                                       | ---                                 |
| FP14/8..                                | F14/T5/8..                                | F14T5/8..                           |
| FP21/8..                                | F21/T5/8..                                | F21T5/8..                           |
| FP28/8..                                | F28/T5/8..                                | F28T5/8..                           |
| FP35/8..                                | F35/T5/8..                                | F35T5/8..                           |
| FP24/8../HO                             | F24/T5/8../HO                             | F24T5/8../HO                        |
| FP39/8../HO                             | F39/T5/8../HO                             | F39T5/8../HO                        |
| FP54/8../HO                             | F54/T5/8../HO                             | F54T5/8../HO                        |
| FP80/8../HO                             | F80/T5/8../HO                             | F80T5/8../HO                        |
| ---                                     | F40T17/CW/IS                              | ---                                 |
| ---                                     | F96T17/...                                | ---                                 |
| HO (800mA)                              | HO (800mA)                                | HO (800mA)                          |
| F96T12/.../HO/COLDTEMP                  | F96T12/.../HO/CT                          | F96T12/.../HO-0                     |
| VHO (1500mA)                            | 1500 or PG17 (both 1500mA)                | VHO (1500mA)                        |
| VHO/LT (1500mA)                         | T10, 1500-0 (both1500mA)                  | VHO-0 (1500mA)                      |
| <b>Compact Fluorescent Lamps</b>        |   |                                     |
| DULUX®                                  | BIAX®                                     | PL                                  |
| Medium Screw Base Lamps                 |   |                                     |
| CF...EL/830/MED                         | FLE...TBX/LT                              |                                     |
| CF...EL/830/MED/1                       | FLE...TBX/L                               | UNIVERSAL SLS ---                   |
| CF...EL/TWIST (15W, 20W, 23W, 27W, 30W) | FLE...HLX/8/SW/CD (Spiral17W, 21W, 27W)   | Twister-BC-EL/DT... (15W, 20W, 23W) |
| CF...EL/MINITWIST (7, 11,13,19,23W)     | ---                                       | ---                                 |
| ---                                     | ---                                       | UNIVERSAL/RH SLS.RH... (low THD)    |
| CF28EL/3WAY/TWIST                       | FLE29QBX/D3 (3-Way Triple)                | ---                                 |
| ---                                     | ---                                       | DIMMABLE SLS/D 20 (Dimmable)        |

**FLUORESCENT COMPETITIVE GUIDES (continued)**

**FLUORESCENT ELECTRICAL INTERCHANGEABILITY (continued)**

| SYLVANIA                         | GE                            | PHILIPS                         |
|----------------------------------|-------------------------------|---------------------------------|
| ---                              | ---                           | DIMMABLE SLS/D 23 (Dimmable)    |
| ---                              | FLE29QBX/DV (Dimmable Triple) | ---                             |
| CF15EL/R30/830/MED               | FLE15/TBX/L/R30               | FLOOD SLS/R30 15                |
| CF20EL/R40/830/MED               | FLE20TBX/L/R40                | FLOOD SLS/R40 20                |
| CF15EL/BR30                      | ---                           | Reflector Flood BC-EL/A BR30 16 |
| CF15EL/G30/830/MED               | FLE15TBX/L/G29                | DÉCOR GLOBE SLS/30 15           |
| CF15EL/G30/830/MED               | FLG17 (magnetic)              | DÉCOR GLOBE SLS/30 15           |
| CF20EL/G40/830/MED               | ---                           | DÉCOR GLOBE SLS/40 15           |
| CF15EL/G/830 (low profile Globe) | FLG15/E-120                   | ---                             |
| CF15EL/B/830 (Bullet)            | FLB17 (magnetic)              | FLE15/6/TC19                    |
| CF15EL/ALINE                     | FLE15/L/TC16                  | OUTDOOR EL/O 15                 |
| CF14EL/A19/1/BL/YELLOW           | FLE15/L/TC16/BUG              | BUG-A-WAY EL/O 15 BAW           |
| ---                              | FLE15/L/TC16/DAY              | ---                             |
| ---                              | ---                           | OUTDOOR EL/O 18                 |
| ---                              | FLE20/6/T19                   | ---                             |
| CF9EL/C/830 (A23)                | ---                           | ---                             |
| ---                              | FLE15/A2/A23                  | HOUSEHOLD EL/A 16               |
| ---                              | FLE20/A2/A24                  | ---                             |
| CF30EL/CIRC/830/MED              | FEA30CIR                      | ---                             |
| ---                              | FEA382D/SW (2D w/adapter)     | ---                             |
| ---                              | FEA382D/835 (2D w/adapter)    | ---                             |

**Pin Base Lamps**

|                      |                                     |                   |
|----------------------|-------------------------------------|-------------------|
| CF...DS... (2-pin)   | F...BX...                           | PL-S...           |
| CFT13WDS/EC          | F13BX/E                             | ---               |
| CF...DS/E... (4 pin) | ---                                 | ---               |
| CF...DD/... (2 pin)  | F...DBX...                          | PL-C...           |
| CF...DD/E... (4 pin) | F...DBX.../4P                       | PL-C.../4P        |
| CF...DT... (2 pin)   | ---                                 | ---               |
| CF...DT/E... (4 pin) | F...TBX.../4P                       | PL-T.../4P        |
| CF42DT/E... (4 pin)  | F42QBX/SPX.../A/4P                  | PL42W.../4P/...   |
| CF...DF...           | ---                                 | ---               |
| ---                  | F...TBX/I/8.../A/4P (inverted post) | ---               |
| FT18DL/8...          | F18BX/SPX...                        | PL-L 18W/...      |
| FT18DL/8.../RS       | F18BX/SPX.../RS                     | ---               |
| FT24DL/8...          | F27/24BX/SPX...                     | PL-L 24W/...      |
| FT36DL/8...          | F39/36BX/SPX...                     | PL-L 36W/...      |
| FT40DL/8.../RS       | F40/30BX/SPX...                     | PL-L 40W.../RS/IS |
| ---                  | F50BX/SPX.../RS                     | PL-L 50W.../RS    |
| FT55DL/8...          | F55BX/8...                          | ---               |
| ---                  | F...2D/...                          | ---               |

**Induction Lamps**

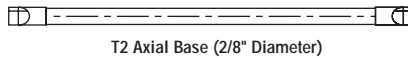
|                        |                        |                 |
|------------------------|------------------------|-----------------|
| ICE 70/8... (ICETRON®) | ---                    | ---             |
| ICE 100/8... (ICETRON) | ---                    | ---             |
| ICE 150/8... (ICETRON) | ---                    | ---             |
| ---                    | EL23/R25/... (Genura™) | ---             |
| ---                    | ---                    | QL55W/... (QL)  |
| ---                    | ---                    | QL85W/... (QL)  |
| ---                    | ---                    | QL165W/... (QL) |

For a more complete manufacturers' cross reference, please see that section of this catalog or visit the electronic catalog at [www.sylvania.com](http://www.sylvania.com).

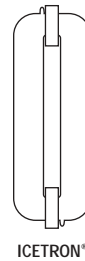
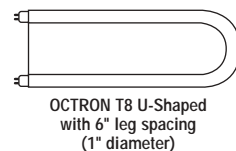
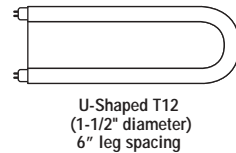
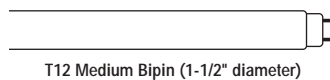
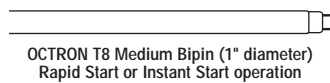
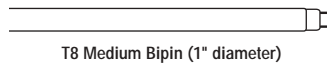
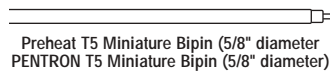
**FLUORESCENT LAMPS**

The bulb shape and size of a fluorescent lamp are expressed by means of a code consisting of the letter "T" (which designates that the bulb is "tubular" in shape) followed by a number that expresses the diameter in eighths of an inch. Diameters range from T2 (1/4 inch) to T17 (2 1/8 inch). In nominal overall length, linear fluorescent lamps range from 6 to 96 inches. The nominal length is measured from back of lamp holder to back of lamp holder. For example, the actual overall length of the 40-watt rapid start T12 lamp with a nominal length of 48 inches is 47 3/4 inches. The nominal length given for PENTRON® linear lamps is the closest familiar nominal length. CURVALUME® U-shaped fluorescent lamps are available as OCTRON® T8 lamps with leg spacings of 1 1/2 inches and 6 inches and as rapid start T12 lamps with leg spacings of 3 1/2 inches and 6 inches. The leg spacing is measured from the center of one leg to the center of the other leg. The overall length of the CURVALUME lamps is measured from the face of the bases to the outside of the glass bend. Circline lamps, which are circular in shape, are available as T9 lamps with outside diameters of 6 1/2, 8, 12 and 16 inches as well as PENTRON T5 lamps with outside diameters of 8.85 and 11.77 inches. The overall length of DULUX® compact fluorescent lamps is measured from the bottom of the base to the outside edge of the glass. In many cases, the bottom of the base is the bottom of the center post of the base of the lamp.

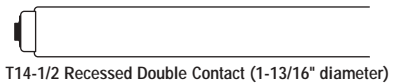
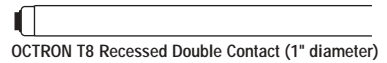
**T2 MINIATURE**



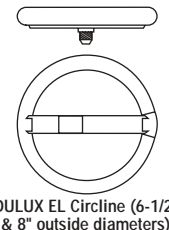
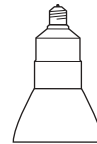
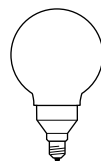
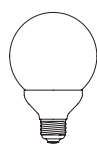
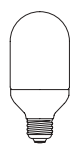
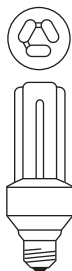
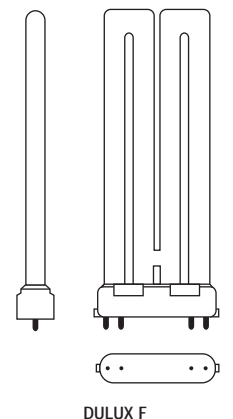
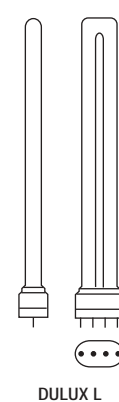
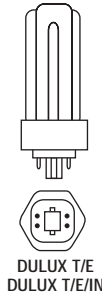
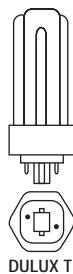
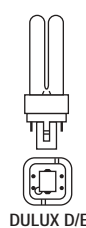
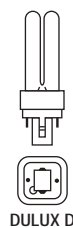
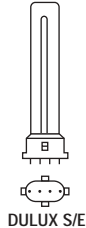
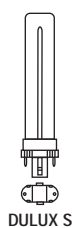
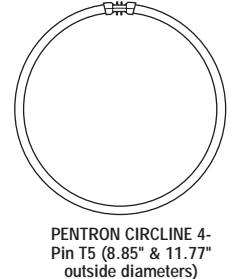
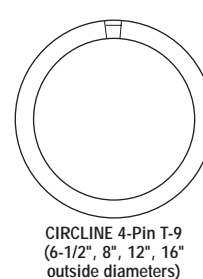
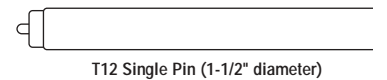
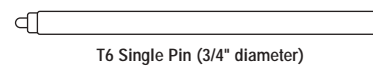
**PREHEAT, RAPID START**



**HIGH OUTPUT AND VERY HIGH OUTPUT**



**INSTANT START**



**BASES**

For linear Preheat and Rapid Start Lamps, four electrical contacts are required, two at each end of the lamp. This is accomplished in the standard line of lamps by the use of a miniature bipin base for T5 lamps and a medium bipin for T8 and T12 lamps. The OCTRON® T8 medium bipin lamps may also be operated as instant start lamps with the proper wiring and ballasts. When operating OCTRON bipin lamps with instant start ballasts, the two contacts in the lamp holder are shorted together and connected to the single circuit in the ballast. In Circline lamps, the cathodes are connected to a four-pin base located between the junction of the two ends of the lamp. High Output (HO) and Very High Output (VHO) lamps have recessed double contact (RDC) type bases. Slimline Instant Start lamps require only two electrical contacts, one on each lamp end and have single pin bases.

Pin-based compact fluorescent lamps have either 2 pins or 4 pins. Each 2-pin lamp has an internal starter and is designed for preheat, magnetic operation. The 4-pin lamps are designed for electronic ballast operation and are dimmable. These lamps have no internal starter; starting the lamps is a function of the ballast.

Medium screw base, compact fluorescent lamps have integral ballasts.

**SINGLE PIN**



Single Pin for T6 Slimline



Single Pin for T8 Slimline & OCTRON



Single Pin for T12 Slimline

**BIPIN**



Miniature Bipin for T5 Preheat & PENTRON®



Miniature Bipin for T8 Preheat & OCTRON



Medium Bipin for T12



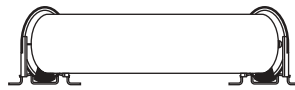
Axial T2 Subminiature



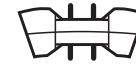
Recessed Double Contact for OCTRON T8 HO



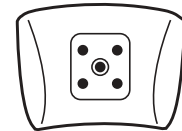
Recessed Double Contact for T12 HO & VHO



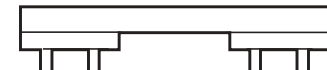
ICETRON® Mounting Brackets



4-pin for PENTRON Circline



4-pin for T9 Circline



OCTRON T8 & T12 Rapid Start CURVALUME

**FOR CHOKE/STARTER OPERATION**



G 23



GX 23



G 23-2



GX 23-2



G 24 d2



G24 d3

**FOR ELECTRONIC OR DIMMING OPERATION**



G 24 q-1



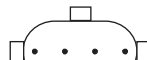
G 24 q-2



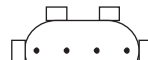
G 24 q-3



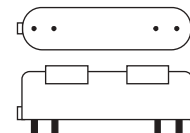
2 G 11



2 G 7



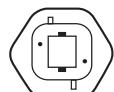
2 GX 7



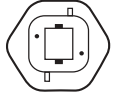
2G 10 DULUX F



Medium Screw Base or DULUX® EL



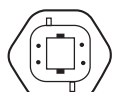
GX 24 d-2



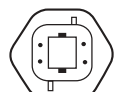
GX 24 d-3



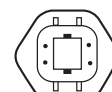
GX 24 q-1



GX 24 q-2



GX 24 q-3

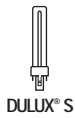


GX 24 q-4



GX 24 q-5





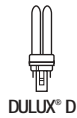
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## DULUX® S PREHEAT 2-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

with Starter in Lamp Base for Magnetic Ballast

| Nominal<br>Wattage | Bulb       | MOL             |      |       | Product<br>Number | Ordering<br>Abbreviation | NEMA<br>Generic Designation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |      | Symbols &<br>Footnotes |
|--------------------|------------|-----------------|------|-------|-------------------|--------------------------|-----------------------------|------------|----------------------------|------------|-----|-----------------------|------|------------------------|
|                    |            | (in)            | (mm) | Base  |                   |                          |                             |            |                            |            |     | Initial<br>@25°C/77°F | Mean |                        |
| 5                  | T4         | 4.2             | 107  | G23   | 20325             | CF5DS/827                | CFT5W/G23/827               | 50         | 10000                      | 2700       | 82  | 230                   | 198  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20547             | CF5DS/827/RP             | CFT5W/G23/827               | 10         | 10000                      | 2700       | 82  | 230                   | 198  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20303             | CF5DS/841                | CFT5W/G23/841               | 50         | 10000                      | 4100       | 82  | 230                   | 198  | 1,2,3,4,5,6            |
| 7                  | T4         | 5.3             | 135  | G23   | 20327             | CF7DS/827                | CFT7W/G23/827               | 50         | 10000                      | 2700       | 82  | 400                   | 344  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20548             | CF7DS/827/RP             | CFT7W/G23/827               | 10         | 10000                      | 2700       | 82  | 400                   | 344  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20310             | CF7DS/835                | CFT7W/G23/835               | 50         | 10000                      | 3500       | 82  | 400                   | 344  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20304             | CF7DS/841                | CFT7W/G23/841               | 50         | 10000                      | 4100       | 82  | 400                   | 344  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20307             | CF7DS/850                | CFT7W/G23/850               | 50         | 10000                      | 5000       | 82  | 400                   | 344  | 1,2,3,4,5,6            |
| 9                  | T4         | 6.5             | 165  | G23   | 20536             | CF9DS/827/RP             | CFT9W/G23/827               | 10         | 10000                      | 2700       | 82  | 580                   | 499  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20333             | CF9DS/835                | CFT9W/G23/835               | 50         | 10000                      | 3500       | 82  | 580                   | 499  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20305             | CF9DS/841                | CFT9W/G23/841               | 50         | 10000                      | 4100       | 82  | 580                   | 499  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20308             | CF9DS/850                | CFT9W/G23/850               | 50         | 10000                      | 5000       | 82  | 580                   | 499  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20329             | CF9DS/827                | CFT9W/G23/827               | 50         | 10000                      | 2700       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20299             | DULUX S 9W/78            |                             | 50         | 10000                      | BLK        |     |                       |      |                        |
| 13                 | T4         | 7.1             | 180  | GX23  | 20331             | CF13DS/827               | CFT13W/GX23/827             | 50         | 10000                      | 2700       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20374*            | CFT13WDS/EC/827          | CFT13W/GX23/827             | 10         | 10000                      | 2700       | 82  | 800                   | 688  | 1,2,3,5,8              |
|                    |            |                 |      |       | 20549             | CF13DS/827/RP            | CFT13W/GX23/827             | 10         | 10000                      | 2700       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20283             | CF13DS/830               | CFT13W/GX23/830             | 50         | 10000                      | 3000       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20397*            | CFT13WDS/EC/830          | CFT13W/GX23/830             | 10         | 10000                      | 3000       | 82  | 800                   | 688  | 1,2,3,5,8              |
|                    |            |                 |      |       | 20335             | CF13DS/835               | CFT13W/GX23/835             | 50         | 10000                      | 3500       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20368*            | CFT13WDS/EC/835          | CFT13W/GX23/835             | 10         | 10000                      | 3500       | 82  | 800                   | 688  | 1,2,3,5,8              |
|                    |            |                 |      |       | 20306             | CF13DS/841               | CFT13W/GX23/841             | 50         | 10000                      | 4100       | 82  | 800                   | 688  | 1,2,3,4,5,6            |
|                    |            |                 |      |       | 20375*            | CFT13WDS/EC/841          | CFT13W/GX23/841             | 10         | 10000                      | 4100       | 82  | 800                   | 688  | 1,2,3,5,8              |
| 20309              | CF13DS/850 | CFT13W/GX23/850 | 50   | 10000 | 5000              | 82                       | 800                         | 688        | 1,2,3,4,5,6                |            |     |                       |      |                        |



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### DULUX® S/E 4-PIN COMPACT FLUORESCENT LAMPS

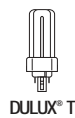
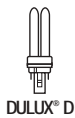
for Dimming and Electronic Ballast

| Nominal Wattage | Bulb | MOL  |      | Base | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |      |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 5               | T4   | 3.4  | 85   | 2G7  | 20311          | CF5DS/E/827           | CFT5W/2G7/827            | 50      | 10000                | 2700    | 82  | 230                      | 198  | 1,2,3,8,9           |
|                 |      |      |      |      | 20315          | CF5DS/E/841           | CFT5W/2G7/841            | 50      | 10000                | 4100    | 82  | 230                      | 198  | 1,2,3,8,9           |
| 7               | T4   | 4.5  | 115  | 2G7  | 20312          | CF7DS/E/827           | CFT7W/2G7/827            | 50      | 10000                | 2700    | 82  | 400                      | 344  | 1,2,3,8,9           |
|                 |      |      |      |      | 20316          | CF7DS/E/841           | CFT7W/2G7/841            | 50      | 10000                | 4100    | 82  | 400                      | 344  | 1,2,3,8,9           |
| 9               | T4   | 5.7  | 145  | 2G7  | 20313          | CF9DS/E/827           | CFT9W/2G7/827            | 50      | 10000                | 2700    | 82  | 580                      | 499  | 1,2,3,8,9           |
|                 |      |      |      |      | 20317          | CF9DS/E/841           | CFT9W/2G7/841            | 50      | 10000                | 4100    | 82  | 580                      | 499  | 1,2,3,8,9           |
| 13              | T4   | 6.2  | 157  | 2GX7 | 20314          | CF13DS/E/827          | CFT13W/2GX7/827          | 50      | 10000                | 2700    | 82  | 800                      | 688  | 1,2,3,8,9           |
|                 |      |      |      |      | 20284          | CF13DS/E/830          | CFT13W/2GX7/830          | 50      | 10000                | 3000    | 82  | 800                      | 688  | 1,2,3,8,9           |
|                 |      |      |      |      | 20318          | CF13DS/E/841          | CFT13W/2GX7/841          | 50      | 10000                | 4100    | 82  | 800                      | 688  | 1,2,3,8,9           |

### DULUX® D PREHEAT 2-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

with Starter in Lamp Base for Magnetic Ballast

| Nominal Wattage | Bulb | MOL  |      | Base   | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|--------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |        |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 9               | T4   | 4.3  | 110  | G23-2  | 20537          | CF9DD/827/RP          | CFQ9W/G23/827            | 10      | 10000                | 2700    | 82  | 525                      | 452  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20689          | CF9DD/827             | CFQ9W/G23/827            | 50      | 10000                | 2700    | 82  | 525                      | 452  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20783          | CF9DD/830             | CFQ9W/G23/830            | 50      | 10000                | 3000    | 82  | 525                      | 452  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20690          | CF9DD/835             | CFQ9W/G23/835            | 50      | 10000                | 3500    | 82  | 525                      | 452  | 1,2,3,4,5,6         |
| 13              | T4   | 4.6  | 118  | GX23-2 | 20538          | CF13DD/827/RP         | CFQ13W/GX23/827          | 10      | 10000                | 2700    | 82  | 780                      | 671  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20691          | CF13DD/827            | CFQ13W/GX23/827          | 50      | 10000                | 2700    | 82  | 780                      | 671  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20705          | CF13DD/830            | CFQ13W/GX23/830          | 50      | 10000                | 3000    | 82  | 780                      | 671  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20692          | CF13DD/835            | CFQ13W/GX23/835          | 50      | 10000                | 3500    | 82  | 780                      | 671  | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20708          | CF13DD/841            | CFQ13W/GX23/841          | 50      | 10000                | 4100    | 82  | 780                      | 671  | 1,2,3,4,5,6         |
| 18              | T4   | 6.0  | 153  | G24D-2 | 20676          | CF18DD/827            | CFQ18W/G24D/827          | 50      | 10000                | 2700    | 82  | 1150                     | 1075 | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20709          | CF18DD/830            | CFQ18W/G24D/830          | 50      | 10000                | 3000    | 82  | 1150                     | 1075 | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20677          | CF18DD/835            | CFQ18W/G24D/835          | 50      | 10000                | 3500    | 82  | 1150                     | 1075 | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20678          | CF18DD/841            | CFQ18W/G24D/841          | 50      | 10000                | 4100    | 82  | 1150                     | 1075 | 1,2,3,4,5,6         |
| 26              | T4   | 6.8  | 173  | G24D-3 | 20679          | CF26DD/827            | CFQ26W/G24D/827          | 50      | 10000                | 2700    | 82  | 1710                     | 1548 | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20710          | CF26DD/830            | CFQ26W/G24D/830          | 50      | 10000                | 3000    | 82  | 1710                     | 1548 | 1,2,3,4,5,6         |
|                 |      |      |      |        | 20680          | CF26DD/835            | CFQ26W/G24D/835          | 50      | 10000                | 3500    | 82  | 1710                     | 1548 | 1,2,3,4,5,6         |



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### DULUX® D PREHEAT 2-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

| Nominal Wattage | Bulb | MOL  |      | Base   | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|--------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |        |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 26              | T4   | 6.8  | 173  | G24D-3 | 20681          | CF26DD/841            | CFQ26W/G24D/841          | 50      | 10000                | 4100    | 82  | 1710                     | 1548 | 1,2,3, 4,5,6        |

### DULUX® D/E 4-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

for Dimming and Electronic Ballast with End-of-Lamp Life (EOL) Protection

| Nominal Wattage | Bulb | MOL  |      | Base   | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|--------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |        |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 13              | T4   | 5.2  | 131  | G24Q-1 | 20682          | CF13DD/E/827          | CFQ13W/G24Q/827          | 50      | 12000                | 2700    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20721          | CF13DD/E/830          | CFQ26W/G24Q/830          | 50      | 12000                | 3000    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20671          | CF13DD/E/835          | CFQ13W/G24Q/835          | 50      | 12000                | 3500    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20667          | CF13DD/E/841          | CFQ13W/G24Q/841          | 50      | 12000                | 4100    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |
| 18              | T4   | 5.8  | 147  | G24Q-2 | 20683          | CF18DD/E/827          | CFQ18W/G24Q/827          | 50      | 12000                | 2700    | 82  | 1150                     | 1075 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20724          | CF18DD/E/830          | CFQ18W/G24Q/830          | 50      | 12000                | 3000    | 82  | 1150                     | 1075 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20672          | CF18DD/E/835          | CFQ18W/G24Q/835          | 50      | 12000                | 3500    | 82  | 1150                     | 1075 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20668          | CF18DD/E/841          | CFQ18W/G24Q/841          | 50      | 12000                | 4100    | 82  | 1150                     | 1075 | 1,2,3, 6,8,9,10     |
| 26              | T4   | 6.5  | 166  | G24Q-3 | 20684          | CF26DD/E/827          | CFQ26W/G24D/827          | 50      | 12000                | 2700    | 82  | 1710                     | 1548 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20722          | CF26DD/E/830          | CFQ26W/G24Q/830          | 50      | 12000                | 3000    | 82  | 1710                     | 1548 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20673          | CF26DD/E/835          | CFQ26W/G24Q/835          | 50      | 12000                | 3500    | 82  | 1710                     | 1548 | 1,2,3, 6,8,9,10     |
|                 |      |      |      |        | 20669          | CF26DD/E/841          | CFQ26W/G24Q/841          | 50      | 12000                | 4100    | 82  | 1710                     | 1548 | 1,2,3, 6,8,9,10     |

### DULUX® T PREHEAT 2-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

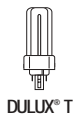
with Starter in Lamp Base for Magnetic Ballast

| Nominal Wattage | Bulb | MOL  |      | Base    | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|---------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |         |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 18              | T4   | 4.8  | 123  | GX24D-2 | 20756          | CF18DT/827            | CFTR18W/GX24D/827        | 50      | 12000                | 2700    | 82  | 1200                     | 1032 | 1,2,3, 4,5,6        |
| 26              | T4   | 5.4  | 138  | GX24D-3 | 20752          | CF26DT/827            | CFTR26W/GX24D/827        | 50      | 12000                | 2700    | 82  | 1800                     | 1548 | 1,2,3, 4,5,6        |

### DULUX® T/E 4-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

for Dimming and Electronic Ballast

| Nominal Wattage | Bulb | MOL  |      | Base    | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|---------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |         |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 13              | T4   | 4.2  | 106  | GX24Q-1 | 20891          | CF13DT/E/827          | CFTR13W/GX24Q/827        | 50      | 12000                | 2700    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |
|                 |      |      |      |         | 20892          | CF13DT/E/830          | CFTR13W/GX24Q/830        | 50      | 12000                | 3000    | 82  | 900                      | 774  | 1,2,3, 6,8,9,10     |



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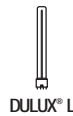
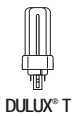
**DULUX® T/E 4-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS**

| Nominal<br>Wattage | Bulb | MOL  |      | Base    | Product<br>Number | Ordering<br>Abbreviation | NEMA<br>Generic Designation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|---------|-------------------|--------------------------|-----------------------------|------------|----------------------------|------------|-----|-----------------------|------|------------------------|
|                    |      | (in) | (mm) |         |                   |                          |                             |            |                            |            |     | Initial<br>@25°C/77°F | Mean |                        |
| 13                 | T4   | 4.2  | 106  | GX24Q-1 | 20893             | CF13DT/E/835             | CFTR13W/GX24Q/835           | 50         | 12000                      | 3500       | 82  | 900                   | 774  | 1,2,3,6,8,9,10         |
|                    |      |      |      |         | 20894             | CF13DT/E/841             | CFTR13W/GX24Q/841           | 50         | 12000                      | 4100       | 82  | 900                   | 774  | 1,2,3,6,8,9,10         |
| 18                 | T4   | 4.6  | 116  | GX24Q-2 | 20760             | CF18DT/E/827             | CFTR18W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 1200                  | 1032 | 1,2,3,6,8,9,10         |
| 26                 | T4   | 5.2  | 124  | GX24Q-3 | 20767             | CF26DT/E/827             | CFTR26W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 1800                  | 1548 | 1,2,3,6,8,9,10         |
| 32                 | T4   | 5.8  | 147  | GX24Q-3 | 20768             | CF32DT/E/827             | CFTR32W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 2400                  | 2064 | 1,2,3,6,8,9,10,11      |

**DULUX® T/E/IN AMALGAM, 4-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS**

for Dimming and Electronic Ballast for High and Low Temp Applications

| Nominal<br>Wattage | Bulb | MOL  |      | Base    | Product<br>Number | Ordering<br>Abbreviation | NEMA<br>Generic Designation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|---------|-------------------|--------------------------|-----------------------------|------------|----------------------------|------------|-----|-----------------------|------|------------------------|
|                    |      | (in) | (mm) |         |                   |                          |                             |            |                            |            |     | Initial<br>@25°C/77°F | Mean |                        |
| 18                 | T4   | 4.4  | 111  | GX24Q-2 | 20875             | CF18DT/E/IN/827          | CFTR18W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 1200                  | 1032 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20876             | CF18DT/E/IN/830          | CFTR18W/GX24Q/830           | 50         | 12000                      | 3000       | 82  | 1200                  | 1032 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20877             | CF18DT/E/IN/835          | CFTR18W/GX24Q/835           | 50         | 12000                      | 3500       | 82  | 1200                  | 1032 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20878             | CF18DT/E/IN/841          | CFTR18W/GX24Q/841           | 50         | 12000                      | 4100       | 82  | 1200                  | 1032 | 1,2,3,6,8,9,10,12      |
| 26                 | T4   | 5.0  | 126  | GX24Q-3 | 20879             | CF26DT/E/IN/827          | CFTR26W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 1800                  | 1548 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20880             | CF26DT/E/IN/830          | CFTR26W/GX24Q/830           | 50         | 12000                      | 3000       | 82  | 1800                  | 1548 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20881             | CF26DT/E/IN/835          | CFTR26W/GX24Q/835           | 50         | 12000                      | 3500       | 82  | 1800                  | 1548 | 1,2,3,6,8,9,10,12      |
|                    |      |      |      |         | 20882             | CF26DT/E/IN/841          | CFTR26W/GX24Q/841           | 50         | 12000                      | 4100       | 82  | 1800                  | 1548 | 1,2,3,6,8,9,10,12      |
| 32                 | T4   | 5.6  | 142  | GX24Q-3 | 20883             | CF32DT/E/IN/827          | CFTR32W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 2400                  | 2064 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20884             | CF32DT/E/IN/830          | CFTR32W/GX24Q/830           | 50         | 12000                      | 3000       | 82  | 2400                  | 2064 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20885             | CF32DT/E/IN/835          | CFTR32W/GX24Q/835           | 50         | 12000                      | 3500       | 82  | 2400                  | 2064 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20886             | CF32DT/E/IN/841          | CFTR32W/GX24Q/841           | 50         | 12000                      | 4100       | 82  | 2400                  | 2064 | 1,2,3,6,8,9,10,11,12   |
| 42                 | T4   | 6.5  | 163  | GX24Q-4 | 20887             | CF42DT/E/IN/827          | CFTR42W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 3200                  | 2752 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20888             | CF42DT/E/IN/830          | CFTR42W/GX24Q/830           | 50         | 12000                      | 3000       | 82  | 3200                  | 2752 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20871*            | CF42DT/E/IN/835          | CFTR42W/GX24Q/835           | 50         | 12000                      | 3500       | 82  | 3200                  | 2752 | 1,2,3,6,8,9,10,11,12   |
|                    |      |      |      |         | 20890             | CF42DT/E/IN/841          | CFTR42W/GX24Q/841           | 50         | 12000                      | 4100       | 82  | 3200                  | 2752 | 1,2,3,6,8,9,10,11,12   |
| 57                 | T4   | 7.76 | 197  | GX24Q-5 | 20895             | CF57DT/E/IN/827          | CFTR57W/GX24Q/827           | 50         | 12000                      | 2700       | 82  | 4300                  | 3698 | 1,2,3,6,8,9,10,11,12   |

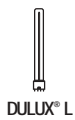


## DULUX® T/E/IN AMALGAM, 4-PIN ECOLOGIC® COMPACT FLUORESCENT LAMPS

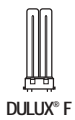
| Nominal Wattage | Bulb | MOL  |      | Base    | Product Number  | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI             | Approx Lumens @25°C/77°F |      | Symbols & Footnotes   |      |    |      |      |                       |
|-----------------|------|------|------|---------|---|-----------------------|--------------------------|---------|----------------------|---------|-----------------|--------------------------|------|-----------------------|------|----|------|------|-----------------------|
|                 |      | (in) | (mm) |         |   |                       |                          |         |                      |         |                 | Initial                  | Mean |                       |      |    |      |      |                       |
| 57              | T4   | 7.76 | 197  | GX24Q-5 | 20896   | CF57DT/E/IN/830       | CFTR57W/GX24Q/830        | 50      | 12000                | 3000    | 82              | 4300                     | 3698 | 1,2,3, 6,8,9,10,11,12 |      |    |      |      |                       |
|                 |      |      |      |         | 20897   | CF57DT/E/IN/835       | CFTR57W/GX24Q/835        | 50      | 12000                | 3500    | 82              | 4300                     | 3698 | 1,2,3, 6,8,9,10,11,12 |      |    |      |      |                       |
|                 |      |      |      |         | 20899   | CF57DT/E/IN/841       | CFTR57W/GX24Q/841        | 50      | 12000                | 4100    | 82              | 4300                     | 3698 | 1,2,3, 6,8,9,10,11,12 |      |    |      |      |                       |
| 70              | T4   | 9.25 | 235  | GX24Q-6 | 20794   | CF70DT/E/IN/827       | CFTR70W/GX24Q/827        | 50      | 12000                | 2700    | 82              | 5200                     | 4472 | 1,2,3, 6,8,9,10,11,12 |      |    |      |      |                       |
|                 |      |      |      |         | <b>Click below to order</b>   |                       |                          |         |                      | 20795   | CF70DT/E/IN/830 | CFTR70W/GX24Q/830        | 50   | 12000                 | 3000 | 82 | 5200 | 4472 | 1,2,3, 6,8,9,10,11,12 |
|                 |      |      |      |         | <b>Interlight Specialty Bulbs<br/>1-800-743-0005<br/><a href="http://www.interlight.biz">www.interlight.biz</a></b> |                       |                          |         |                      | 20796   | CF70DT/E/IN/835 | CFTR70W/GX24Q/835        | 50   | 12000                 | 3500 | 82 | 5200 | 4472 | 1,2,3, 6,8,9,10,11,12 |
|                 |      |      |      |         | 20797   | CF70DT/E/IN/841       | CFTR70W/GX24Q/841        | 50      | 12000                | 4100    | 82              | 5200                     | 4472 | 1,2,3, 6,8,9,10,11,12 |      |    |      |      |                       |

## DULUX® L HIGH LUMEN COMPACT FLUORESCENT LAMPS

| Nominal Wattage | Bulb | MOL  |      | Base | Product Number | Ordering Abbreviation | NEMA Generic Designation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|------|------|------|----------------|-----------------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      | (in) | (mm) |      |                |                       |                          |         |                      |         |     | Initial                  | Mean |                     |
| 18              | T5   | 9.0  | 229  | 2G11 | 20587          | FT18DL/830            | FT18W/2G11/830           | 10      | 12000                | 3000    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
|                 |      |      |      |      | 20595          | FT18DL/830/RS         | FT18W/2G11/RS/830        | 10      | 20000                | 3000    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
|                 |      | 10.5 | 267  | 2G11 | 20588          | FT18DL/835            | FT18W/2G11/835           | 10      | 12000                | 3500    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
|                 |      |      |      |      | 20594          | FT18DL/835/RS         | FT18W/2G11/RS/835        | 10      | 20000                | 3500    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
|                 |      | 9.0  | 229  | 2G11 | 20589          | FT18DL/841            | FT18W/2G11/841           | 10      | 12000                | 4100    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
|                 |      |      |      |      | 20593          | FT18DL/841/RS         | FT18W/2G11/RS/841        | 10      | 20000                | 4100    | 82  | 1250                     | 1075 | 1,2,3,8,9           |
| 24              | T5   | 12.9 | 326  | 2G11 | 20597          | FT24DL/830            | FT24W/2G11/830           | 10      | 12000                | 3000    | 82  | 1800                     | 1548 | 1,2,3,8,9, 13       |
|                 |      |      |      |      | 20580          | FT24DL/835            | FT24W/2G11/835           | 10      | 12000                | 3500    | 82  | 1800                     | 1548 | 1,2,3,8,9, 13       |
|                 |      |      |      |      | 20596          | FT24DL/841            | FT24W/2G11/841           | 10      | 12000                | 4100    | 82  | 1800                     | 1548 | 1,2,3,8,9, 13       |
| 36              | T5   | 16.6 | 422  | 2G11 | 20581          | FT36DL/830            | FT36W/2G11/830           | 10      | 12000                | 3000    | 82  | 2900                     | 2494 | 1,2,3,8,9, 13       |
|                 |      |      |      |      | 20582          | FT36DL/835            | FT36W/2G11/835           | 10      | 12000                | 3500    | 82  | 2900                     | 2494 | 1,2,3,8,9, 13       |
|                 |      |      |      |      | 20583          | FT36DL/841            | FT36W/2G11/841           | 10      | 12000                | 4100    | 82  | 2900                     | 2494 | 1,2,3,8,9, 13       |
| 40              | T5   | 22.6 | 573  | 2G11 | 20584          | FT40DL/830/RS         | FT40W/2G11/RS/830        | 10      | 20000                | 3000    | 82  | 3150                     | 2709 | 1,2,3,8,9           |
|                 |      |      |      |      | 20585          | FT40DL/835/RS         | FT40W/2G11/RS/835        | 10      | 20000                | 3500    | 82  | 3150                     | 2709 | 1,2,3,8,9           |
|                 |      |      |      |      | 20586          | FT40DL/841/RS         | FT40W/2G11/RS/841        | 10      | 20000                | 4100    | 82  | 3150                     | 2709 | 1,2,3,8,9           |
|                 |      |      |      |      | 20576          | FT40DL/850/RS         | FT40W/2G11/RS/850        | 10      | 20000                | 5000    | 82  | 3150                     | 2709 | 1,2,3,8,9           |
| 55              | T5   | 21.1 | 535  | 2G11 | 20590          | FT55DL/830            | FT55W/2G11/830           | 10      | 12000                | 3000    | 82  | 4800                     | 4128 | 1,2,3,8,9, 14       |
|                 |      |      |      |      | 20591          | FT55DL/835            | FT55W/2G11/835           | 10      | 12000                | 3500    | 82  | 4800                     | 4128 | 1,2,3,8,9, 14       |
|                 |      |      |      |      | 20592          | FT55DL/841            | FT55W/2G11/841           | 10      | 12000                | 4100    | 82  | 4800                     | 4128 | 1,2,3,8,9, 14       |
| 80              | T5   | 22.6 | 573  | 2G11 | 20572          | FT80DL/830            | F180W/2G11/830           | 10      | 12000                | 3000    | 82  | 6000                     | 5160 | 1,2,3,8,9, 14       |



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| Nominal<br>Wattage | Bulb | MOL  |      | Base | Product<br>Number | Ordering<br>Abbreviation | NEMA<br>Generic Designation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|------|-------------------|--------------------------|-----------------------------|------------|----------------------------|------------|-----|-----------------------|------|------------------------|
|                    |      | (in) | (mm) |      |                   |                          |                             |            |                            |            |     | Initial<br>@25°C/77°F | Mean |                        |
| 80                 | T5   | 22.6 | 573  | 2G11 | 20622             | FT80DL/835               | FT80W/2G11/835              | 10         | 12000                      | 3500       | 82  | 6000                  | 5160 | ☐ 1,2,3,8,9,14         |
|                    |      |      |      |      | 20624             | FT80DL/841               | FT40W/2G11/841              | 10         | 12000                      | 4100       | 82  | 6000                  | 5160 | ☐ 1,2,3,8,9,14         |

**DULUX® F FLAT COMPACT FLUORESCENT LAMPS**

| Nominal<br>Wattage | Bulb | MOL  |      | Base | Product<br>Number | Ordering<br>Abbreviation | NEMA<br>Generic Designation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|------|-------------------|--------------------------|-----------------------------|------------|----------------------------|------------|-----|-----------------------|------|------------------------|
|                    |      | (in) | (mm) |      |                   |                          |                             |            |                            |            |     | Initial<br>@25°C/77°F | Mean |                        |
| 18                 | T5   | 4.8  | 122  | 2G10 | 20551             | CF18DF/830               | CFM18W/2G10/830             | 10         | 10000                      | 3000       | 82  | 1100                  | 946  | ☐ 1,2,3,8,9,15         |
|                    |      |      |      |      | 20552             | CF18DF/841               | CFM18W/2G10/841             | 10         | 10000                      | 4100       | 82  | 1100                  | 946  | ☐ 1,2,3,8,9,15         |
| 24                 | T5   | 6.7  | 171  | 2G10 | 20553             | CF24DF/830               | CFM24W/2G10/830             | 10         | 10000                      | 3000       | 82  | 1700                  | 1462 | ☐ 1,2,3,8,9,15         |
|                    |      |      |      |      | 20558             | CF24DF/841               | CFM24W/2G10/841             | 10         | 10000                      | 4100       | 82  | 1700                  | 1462 | ☐ 1,2,3,8,9,15         |
| 36                 | T5   | 8.5  | 217  | 2G10 | 20559             | CF36DF/830               | CFM36W/2G10/830             | 10         | 10000                      | 3000       | 82  | 2800                  | 2408 | ☐ 1,2,3,8,9,15         |
|                    |      |      |      |      | 20560             | CF36DF/841               | CFM36W/2G10/841             | 10         | 10000                      | 4100       | 82  | 2800                  | 2408 | ☐ 1,2,3,8,9,15         |

**DULUX® EL SELF-BALLASTED COMPACT FLUORESCENT LAMPS****Triple Tube Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb | MOL  |     | Base  | Product<br>Number | Ordering<br>Abbreviation | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI  | Approx Lumens         |                      | Symbols &<br>Footnotes |
|--------------------|------|------|-----|-------|-------------------|--------------------------|---------|------------|----------------------------|------------|------|-----------------------|----------------------|------------------------|
|                    |      | (in) |     |       |                   |                          |         |            |                            |            |      | Initial<br>@25°C/77°F | Mean                 |                        |
| 15                 | T4   | 5.7  | Med | 29307 | CF15EL/830/MED/1  | 120                      | 6       | 10000      | 3000                       | 82         | 850  | 731                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
| 20                 | T4   | 6.42 | Med | 29308 | CF20EL/830/MED/1  | 120                      | 6       | 10000      | 3000                       | 82         | 1200 | 1032                  | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
| 23                 | T4   | 6.93 | Med | 29310 | CF23EL/830/MED/1  | 120                      | 6       | 10000      | 3000                       | 82         | 1450 | 1247                  | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |

**Mini Twist Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb      | MOL  |     | Base  | Product<br>Number      | Ordering<br>Abbreviation | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens         |                      | Symbols &<br>Footnotes |
|--------------------|-----------|------|-----|-------|------------------------|--------------------------|---------|------------|----------------------------|------------|-----|-----------------------|----------------------|------------------------|
|                    |           | (in) |     |       |                        |                          |         |            |                            |            |     | Initial<br>@25°C/77°F | Mean                 |                        |
| 7                  | MINITWIST | 4.4  | Med | 29451 | CF7EL/MINITWIST/2700K  | 120                      | 6       | 8000       | 2700                       | 82         | 375 | 323                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
|                    |           |      |     | 29379 | CF7EL/MINITWIST/1      | 120                      | 6       | 8000       | 3000                       | 82         | 375 | 323                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
|                    |           |      |     | 29371 | CF7EL/MINITWIST/BL/1   | 120                      | 6       | 8000       | 3000                       | 82         | 375 | 323                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
| 11                 | MINITWIST | 4.5  | Med | 29378 | CF11EL/MINITWIST/1     | 120                      | 6       | 8000       | 3000                       | 82         | 600 | 516                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
|                    |           |      |     | 29364 | CF11EL/MINITWIST/BL/1  | 120                      | 6       | 8000       | 3000                       | 82         | 600 | 516                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
| 13                 | MINITWIST | 4.5  | Med | 29409 | CF13EL/MINITWIST/2700K | 120                      | 6       | 8000       | 2700                       | 82         | 800 | 688                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |
|                    |           |      |     | 29376 | CF13EL/MINITWIST/1     | 120                      | 6       | 8000       | 3000                       | 82         | 800 | 688                   | ☐ Ⓢ Ⓣ 1,2,3,16,17,18 |                        |



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## DULUX® EL SELF-BALLASTED COMPACT FLUORESCENT LAMPS

### Mini Twist Compact Fluorescent Lamps

| Nominal Wattage | Bulb      | MOL (in) | Base | Product Number | Ordering Abbreviation     | Voltage | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes  |
|-----------------|-----------|----------|------|----------------|---------------------------|---------|---------|----------------------|---------|-----|--------------------------|------|----------------------|
|                 |           |          |      |                |                           |         |         |                      |         |     | Initial                  | Mean |                      |
| 13              | MINITWIST | 4.5      | Med  | 29116*         | CF13EL/MINITWIST/BL/1     | 120     | 6       | 8000                 | 3000    | 82  | 800                      | 688  | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29169*         | CF13EL/MINITWIST/DAY/BL/1 | 120     | 6       | 8000                 | 3500    | 82  | 800                      | 688  | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 19              | MINITWIST | 5.2      | Med  | 29410*         | CF19EL/MINITWIST/2700K    | 120     | 6       | 8000                 | 2700    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29396*         | CF19EL/MINITWIST          | 120     | 6       | 8000                 | 3000    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29347*         | CF19EL/MINITWIST/BL/1     | 120     | 5       | 8000                 | 3000    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29367*         | CF19EL/MINITWIST/DAY/BL/1 | 120     | 5       | 8000                 | 3500    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 23              | MINITWIST | 5.75     | Med  | 29411*         | CF23EL/MINITWIST/2700K    | 120     | 6       | 8000                 | 2700    | 82  | 1600                     | 1376 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29397*         | CF23EL/MINITWIST          | 120     | 6       | 8000                 | 3000    | 82  | 1600                     | 1376 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29394*         | CF23EL/MINITWIST/BL/1     | 120     | 5       | 8000                 | 3000    | 82  | 1600                     | 1376 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |           |          |      | 29417*         | CF23EL/MINITWIST/DAY/BL/1 | 120     | 5       | 8000                 | 3500    | 82  | 1600                     | 1376 | ☐ ☐ ☐ 1,2,3,16,17,18 |

### Twist Compact Fluorescent Lamps

| Nominal Wattage | Bulb  | MOL (in) | Base | Product Number | Ordering Abbreviation | Voltage | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes  |
|-----------------|-------|----------|------|----------------|-----------------------|---------|---------|----------------------|---------|-----|--------------------------|------|----------------------|
|                 |       |          |      |                |                       |         |         |                      |         |     | Initial                  | Mean |                      |
| 15              | TWIST | 5.13     | Med  | 29286          | CF15EL/TWIST          | 120     | 6       | 10000                | 3000    | 82  | 850                      | 731  | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29289          | CF15EL/TWIST/BL/1     | 120     | 6       | 10000                | 3000    | 82  | 850                      | 731  | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 20              | TWIST | 5.5      | Med  | 29287          | CF20EL/TWIST          | 120     | 6       | 10000                | 3000    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29290          | CF20EL/TWIST/BL/1     | 120     | 6       | 10000                | 3000    | 82  | 1200                     | 1032 | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 23              | TWIST | 5.88     | Med  | 29288          | CF23EL/TWIST          | 120     | 6       | 10000                | 3000    | 82  | 1450                     | 1247 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29291          | CF23EL/TWIST/BL/1     | 120     | 6       | 10000                | 3000    | 82  | 1450                     | 1247 | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 27              | TWIST | 6.1      | Med  | 29412*         | CF27EL/TWIST/2700K    | 120     | 6       | 10000                | 2700    | 82  | 1750                     | 1505 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29390          | CF27EL/TWIST          | 120     | 6       | 10000                | 3000    | 82  | 1750                     | 1505 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29391          | CF27EL/TWIST/1/BL     | 120     | 6       | 10000                | 3000    | 82  | 1750                     | 1505 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29370*         | CF27EL/TWIST/DAY/1/BL | 120     | 6       | 10000                | 3500    | 82  | 1750                     | 1505 | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |       |          |      | 29353*         | CF27EL/TWIST/5000K    | 120     | 6       | 10000                | 5000    | 82  | 1750                     | 1505 | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 30              | TWIST | 5.13     | Med  | 29395*         | CF30EL/TWIST          | 120     | 6       | 6000                 | 3000    | 82  | 2000                     | 1720 | ☐ ☐ ☐ 1,2,3,16,17,18 |



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| Nominal<br>Wattage | Bulb  | MOL  |              | Product<br>Number | Ordering Abbreviation  | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |                    | Symbols &<br>Footnotes |
|--------------------|-------|------|--------------|-------------------|------------------------|---------|------------|----------------------------|------------|-----|-----------------------------|--------------------|------------------------|
|                    |       | (in) | Base         |                   |                        |         |            |                            |            |     | Initial                     | Mean               |                        |
| 30                 | TWIST | 5.13 | Med          | 29392*            | CF30EL/TWIST/1/BL      | 120     | 5          | 6000                       | 3000       | 82  | 2000                        | 1720               | ☐ ☐ ☐ 1,2,3,16,17,18   |
| 12<br>19<br>28     | TWIST | 5.75 | 3Contact Med | 29351*            | CF28EL/3WAY/TWIST/1    | 120     | 6          | 6000                       | 3000       | 82  | 600<br>1100<br>1600         | 516<br>946<br>1376 | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |       |      |              | 29349*            | CF28EL/3WAY/TWIST/1/BL | 120     | 5          | 6000                       | 3000       | 82  | 600<br>1100<br>1600         | 516<br>946<br>1376 | ☐ ☐ ☐ 1,2,3,16,17,18   |

**Classic (A-Shape) Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb | MOL  |      | Product<br>Number | Ordering Abbreviation  | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|-------------------|------------------------|---------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | (in) | Base |                   |                        |         |            |                            |            |     | Initial                     | Mean |                        |
| 14                 | A19  | 4.75 | Med  | 29468*            | CF14EL/A19             | 120     | 5          | 6000                       | 3000       | 82  | 800                         | 688  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |      |      |      | 29345*            | CF14EL/A19/1/BL        | 120     | 5          | 6000                       | 3000       | 82  | 800                         | 688  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |      |      |      | 29346*            | CF14EL/A19/1/BL/YELLOW | 120     | 5          | 6000                       | YLW        | 82  | 475                         | 409  | ☐ ☐ ☐ 1,2,3,16,17,18   |

**Decorative Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb  | MOL  |            | Product<br>Number | Ordering Abbreviation      | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|-------|------|------------|-------------------|----------------------------|---------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |       | (in) | Base       |                   |                            |         |            |                            |            |     | Initial                     | Mean |                        |
| 4                  | Flame | 4.25 | Candelabra | 29135*            | CF4EL/DECO/CANDELABRA      | 120     | 6          | 6000                       | 3000       | 82  | 160                         | 138  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |       |      |            | 29121*            | CF4EL/DECO/CANDELABRA/1/BL | 120     | 6          | 6000                       | 3000       | 82  | 160                         | 138  | ☐ ☐ ☐ 1,2,3,16,17,18   |
| 7                  | Flame | 5    | Med        | 29167*            | CF7EL/DECO/MEDIUM/1/BL     | 120     | 6          | 6000                       | 3000       | 82  | 280                         | 241  | ☐ ☐ ☐ 1,2,3,16,17,18   |

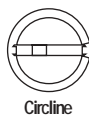
**Globe Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb | MOL  |      | Product<br>Number | Ordering Abbreviation | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|-------------------|-----------------------|---------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | (in) | Base |                   |                       |         |            |                            |            |     | Initial                     | Mean |                        |
| 11                 | G25  | 4.6  | Med  | 29414*            | CF11EL/G25/2700K      | 120     | 6          | 6000                       | 2700       | 82  | 450                         | 387  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |      |      |      | 29344*            | CF11EL/G25/1/BL       | 120     | 5          | 6000                       | 3000       | 82  | 450                         | 387  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |      |      |      | 29368*            | CF11EL/G25/DAY/1/BL   | 120     | 5          | 6000                       | 3500       | 82  | 450                         | 387  | ☐ ☐ ☐ 1,2,3,16,17,18   |
| 15                 | G30  | 5.5  | Med  | 29195             | CF15EL/G/830/MED      | 120     | 6          | 6000                       | 3000       | 82  | 700                         | 602  | ☐ ☐ ☐ 1,2,3,16,17,18   |
|                    |      |      |      | 29278             | CF15EL/G/830/MED/1/BL | 120     | 5          | 6000                       | 3000       | 82  | 700                         | 602  | ☐ ☐ ☐ 1,2,3,16,17,18   |

**Reflector Compact Fluorescent Lamps**

| Nominal<br>Wattage | Bulb | MOL  |      | Product<br>Number | Ordering Abbreviation | Voltage | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|------|------|-------------------|-----------------------|---------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | (in) | Base |                   |                       |         |            |                            |            |     | Initial                     | Mean |                        |
| 15                 | BR30 | 5.6  | Med  | 29413*            | CF15EL/BR30/2700K     | 120     | 6          | 6000                       | 2700       | 82  | 560                         | 482  | ☐ ☐ ☐ 1,2,3,16,17,18   |





## DULUX® EL SELF-BALLASTED COMPACT FLUORESCENT LAMPS

### Reflector Compact Fluorescent Lamps

| Nominal Wattage | Bulb | MOL (in) | Base | Product Number | Ordering Abbreviation  | Voltage | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes  |
|-----------------|------|----------|------|----------------|------------------------|---------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|----------------------|
| 15              | BR30 | 5.6      | Med  | 29352*         | CF15EL/BR30/FROST      | 120     | 6       | 6000                 | 3000    | 82  | 560                              | 482                           | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |      |          |      | 29331          | CF15EL/BR30/FROST/1/BL | 120     | 5       | 6000                 | 3000    | 82  | 560                              | 482                           | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |      |          |      | 29366*         | CF15EL/BR30/DAY/BL/1   | 120     | 5       | 6000                 | 3500    | 82  | 560                              | 482                           | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 20              | BR40 | 6.5      | Med  | 29399*         | CF20EL/BR40            | 120     | 6       | 8000                 | 2700    | 82  | 900                              | 774                           | ☐ ☐ ☐ 1,2,3,16,17,18 |

### Low Profile Bullet and Circline Electronic Compact Fluorescent Lamps

| Nominal Wattage | Bulb | MOL (in) | Base | Product Number | Ordering Abbreviation | Voltage | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes  |
|-----------------|------|----------|------|----------------|-----------------------|---------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|----------------------|
| 15              | T20  | 5.5      | Med  | 29195          | CF15EL/B/830/MED      | 120     | 6       | 6000                 | 3000    | 82  | 700                              | 602                           | ☐ ☐ ☐ 1,2,3,16,17,18 |
|                 |      |          |      | 29278          | CF15EL/B/830/MED/1/BL | 120     | 6       | 6000                 | 3000    | 82  | 700                              | 602                           | ☐ ☐ ☐ 1,2,3,16,17,18 |
| 30              | T9   | 2.8      | Med  | 29294          | CF30EL/CIRC/830/MED   | 120     | 5       | 10000                | 3000    | 82  | 1800                             | 1548                          | ☐ ☐ ☐ 1,2,3,16,17,18 |

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T8 Med Bipin

### OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS

OCTRON® lamps are T8 fluorescent lamps designed to be operated on dedicated magnetic rapid start or electronic instant start, rapid start or programmed rapid start (also known as programmed start) ballasts. OCTRON lamps may be operated on electronic instant start ballasts with ballast factors ranging from .71 to 1.20 at the nominal ballast input voltage. For details on various lamp/ballast system combinations, please refer to the Systems Performance Guide in the "SYLVANIA QUICKTRONIC® Ballast Technology & Specification Guide".

### OCTRON® 700 and 700 XP™ Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |                  |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                     |                  |
| 14              | T8   | 18                  | 17.91    | Med Bipin | 21665          | F013/730/ECO          | 30      | 20000                | 3000    | 75  | 830                      | 745  | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21666          | F013/735/ECO          | 30      | 20000                | 3500    | 75  | 830                      | 745  | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21667          | F013/741/ECO          | 30      | 20000                | 4100    | 75  | 830                      | 745  | 1,2,6,8,20,21       |                  |
| 17              | T8   | 24                  | 23.78    | Med Bipin | 21918          | F017/730/ECO          | 30      | 20000                | 3000    | 75  | 1300                     | 1170 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21636*         | F017/730/XP/ECO       | 30      | 24000                | 3000    | 78  | 1325                     | 1255 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21769          | F017/735/ECO          | 30      | 20000                | 3500    | 75  | 1300                     | 1170 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21699          | F017/735/XP/ECO       | 30      | 24000                | 3500    | 78  | 1325                     | 1255 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21770          | F017/741/ECO          | 30      | 20000                | 4100    | 75  | 1300                     | 1170 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21637*         | F017/741/XP/ECO       | 30      | 24000                | 4100    | 78  | 1325                     | 1255 | 1,2,6,8,21,22,23    |                  |
| 25              | T8   | 36                  | 35.78    | Med Bipin | 21937          | F025/730/ECO          | 30      | 20000                | 3000    | 75  | 1950                     | 1755 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21638*         | F025/730/XP/ECO       | 30      | 24000                | 3000    | 78  | 2050                     | 1945 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21941          | F025/735/ECO          | 30      | 20000                | 3500    | 75  | 1950                     | 1755 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21698          | F025/735/XP/ECO       | 30      | 24000                | 3500    | 78  | 2050                     | 1945 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21942          | F025/741/ECO          | 30      | 20000                | 4100    | 75  | 1950                     | 1755 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21639*         | F025/741/XP/ECO       | 30      | 24000                | 4100    | 78  | 2050                     | 1945 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21700          | F025/765              | 30      | 20000                | 6500    | 75  | 2000                     | 1800 | 1,2,8,20,21         |                  |
| 32              | T8   | 48                  | 47.78    | Med Bipin | 21961          | F032/GOLD             | 10      | 20000                |         |     | 1700                     | 1530 | 1,2,8,20,21,24      |                  |
|                 |      |                     |          |           | 21234*         | F032/AQUATIC/XP/ECO   | 30      | 24000                | 10000   | 52  | 1250                     |      |                     | 1,2,6,8,20,21,22 |
|                 |      |                     |          |           | 21997          | F032/730/ECO          | 30      | 20000                | 3000    | 75  | 2800                     | 2520 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 22006          | F032/730/ECO/PALLET   | 1968    | 20000                | 3000    | 75  | 2800                     | 2520 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21711          | F032/730/XP/ECO       | 30      | 24000                | 3000    | 78  | 2850                     | 2705 | 1,2,6,8,21,22,23    |                  |
|                 |      |                     |          |           | 21902*         | F032/735/CVP          | 12      | 20000                | 3500    | 75  | 2800                     | 2520 | 1,2,8,20,21         |                  |
|                 |      |                     |          |           | 21998          | F032/735/ECO          | 30      | 20000                | 3500    | 75  | 2800                     | 2520 | 1,2,6,8,20,21       |                  |
|                 |      |                     |          |           | 21945          | F032/735/ECO/PALLET   | 1968    | 20000                | 3500    | 75  | 2800                     | 2520 | 1,2,6,8,20,21       |                  |

FLUORESCENT

## OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS

## OCTRON® 700 and 700 XP™ Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial | Approx Lumens Mean | Symbols & Footnotes  |
|-----------------|------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|-----------------------|--------------------|----------------------|
| 32              | T8   | 48                  | 47.78    | Med Bipin   | 21678          | F032/735/SL           | 30      | 20000                | 3500    | 75  | 2745                  | 2470               | Ⓢ Ⓢ 1,2,20,21,25,26  |
|                 |      |                     |          |             | 22044          | F032/735/XP/ECO       | 30      | 24000                | 3500    | 78  | 2850                  | 2705               | Ⓢ Ⓢ 1,2,6,8,21,22,23 |
|                 |      |                     |          |             | 21981          | F032/741/CVP          | 12      | 20000                | 4100    | 75  | 2800                  | 2520               | Ⓢ Ⓢ 1,2,8,20,21      |
|                 |      |                     |          |             | 21999          | F032/741/ECO          | 30      | 20000                | 4100    | 75  | 2800                  | 2520               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 22181          | F032/741/ECO/CVP      | 12      | 20000                | 4100    | 75  | 2800                  | 2520               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 22008          | F032/741/ECO/PALLET   | 1968    | 20000                | 4100    | 75  | 2800                  | 2520               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 21712          | F032/741/XP/ECO       | 30      | 24000                | 4100    | 78  | 2850                  | 2705               | Ⓢ Ⓢ 1,2,6,8,21,22,23 |
|                 |      |                     |          |             | 22141          | F032/750/ECO          | 30      | 20000                | 5000    | 75  | 2650                  | 2385               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 22175          | F032/765/ECO          | 30      | 20000                | 6500    | 75  | 2700                  | 2430               | Ⓢ Ⓢ 1,2,6,8,20,21    |
| 40              | T8   | 60                  | 59.61    | Med Bipin   | 22102          | F040/730/ECO          | 30      | 20000                | 3000    | 75  | 3500                  | 3150               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 22103          | F040/735/ECO          | 30      | 20000                | 3500    | 75  | 3500                  | 3150               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |             | 22104          | F040/741/ECO          | 30      | 20000                | 4100    | 75  | 3500                  | 3150               | Ⓢ Ⓢ 1,2,6,8,20,21    |
| 59              | T8   | 96                  | 94       | Single Pin  | 22030          | F096/730/ECO          | 24      | 15000                | 3000    | 75  | 5700                  | 5130               | Ⓢ Ⓢ 1,2,6,8,27       |
|                 |      |                     |          |             | 21737          | F096/735/ECO          | 24      | 15000                | 3500    | 75  | 5700                  | 5130               | Ⓢ Ⓢ 1,2,6,8,27       |
|                 |      |                     |          |             | 21736          | F096/741/ECO          | 24      | 15000                | 4100    | 75  | 5700                  | 5130               | Ⓢ Ⓢ 1,2,6,8,27       |
| 86              | T8   | 96                  | 93.91    | Recessed DC | 22041          | F096/735/HO           | 24      | 18000                | 3500    | 75  | 8000                  | 7200               | Ⓢ Ⓢ 1,2,8            |
|                 |      |                     |          |             | 22042          | F096/741/HO           | 24      | 18000                | 4100    | 75  | 8000                  | 7200               | Ⓢ Ⓢ 1,2,8            |

## OCTRON® 800, 800 XP™ and 800 XPS® Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial | Approx Lumens Mean | Symbols & Footnotes  |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|-----------------------|--------------------|----------------------|
| 17              | T8   | 24                  | 23.78    | Med Bipin | 22135          | F017/830/ECO          | 30      | 20000                | 3000    | 82  | 1350                  | 1240               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |           | 21785          | F017/830/XP/ECO       | 30      | 24000                | 3000    | 85  | 1375                  | 1305               | Ⓢ Ⓢ 1,2,6,8,21,22,23 |
|                 |      |                     |          |           | 22150          | F017/830/XPS/ECO      | 30      | 30000                | 3000    | 85  | 1400                  | 1340               | Ⓢ Ⓢ 1,2,6,8,21,28,31 |
|                 |      |                     |          |           | 22136          | F017/835/ECO          | 30      | 20000                | 3500    | 82  | 1350                  | 1240               | Ⓢ Ⓢ 1,2,6,8,20,21    |
|                 |      |                     |          |           | 21778          | F017/835/XP/ECO       | 30      | 24000                | 3500    | 85  | 1375                  | 1305               | Ⓢ Ⓢ 1,2,6,8,21,22,23 |
|                 |      |                     |          |           | 22151          | F017/835/XPS/ECO      | 30      | 30000                | 3500    | 85  | 1400                  | 1340               | Ⓢ Ⓢ 1,2,6,8,21,28,31 |

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## OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS

OCTRON® lamps are T8 fluorescent lamps designed to be operated on dedicated magnetic rapid start or electronic instant start, rapid start or programmed rapid start (also known as programmed start) ballasts. OCTRON lamps may be operated on electronic instant start ballasts with ballast factors ranging from .71 to 1.20 at the nominal ballast input voltage. For details on various lamp/ballast system combinations, please refer to the Systems Performance Guide in the "SYLVANIA QUICKTRONIC® Ballast Technology & Specification Guide".

### OCTRON® 800, 800 XP™ and 800 XPS® Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 17              | T8   | 24                  | 23.78    | Med Bipin | 22137          | F017/841/ECO          | 30      | 20000                | 4100    | 82  | 1350                     | 1240 | 1,2,6,8,20,21       |
|                 |      |                     |          |           | 21907          | F017/841/XP/ECO       | 30      | 24000                | 4100    | 85  | 1375                     | 1305 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |           | 22152          | F017/841/XPS/ECO      | 30      | 30000                | 4100    | 85  | 1400                     | 1340 | 1,2,6,8,21,28,31    |
| 25              | T8   | 36                  | 35.78    | Med Bipin | 22138          | F025/830/ECO          | 30      | 20000                | 3000    | 82  | 2150                     | 1975 | 1,2,6,8,20,21       |
|                 |      |                     |          |           | 21910          | F025/830/XP/ECO       | 30      | 24000                | 3000    | 85  | 2175                     | 2065 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |           | 22153          | F025/830/XPS/ECO      | 30      | 30000                | 3000    | 85  | 2200                     | 2090 | 1,2,6,8,21,28,31    |
|                 |      |                     |          |           | 22139          | F025/835/ECO          | 30      | 20000                | 3500    | 82  | 2150                     | 1975 | 1,2,6,8,20,21       |
|                 |      |                     |          |           | 21776          | F025/835/XP/ECO       | 30      | 24000                | 3500    | 85  | 2175                     | 2065 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |           | 22154          | F025/835/XPS/ECO      | 30      | 30000                | 3500    | 85  | 2200                     | 2090 | 1,2,6,8,21,28,31    |
|                 |      |                     |          |           | 22140          | F025/841/ECO          | 30      | 20000                | 4100    | 82  | 2150                     | 1975 | 1,2,6,8,20,21       |
|                 |      |                     |          |           | 21774          | F025/841/XP/ECO       | 30      | 24000                | 4100    | 85  | 2175                     | 2065 | 1,2,6,8,21,22,23    |
| 28              | T8   | 48                  | 47.78    | Med Bipin | 22177          | F028/830/XP/SS/ECO    | 30      | 18000                | 3000    | 82  | 2725                     | 2560 | 1,2,6,22,23,29,30   |
|                 |      |                     |          |           | 22178          | F028/835/XP/SS/ECO    | 30      | 18000                | 3500    | 82  | 2725                     | 2560 | 1,2,6,22,23,29,30   |
|                 |      |                     |          |           | 22179          | F028/841/XP/SS/ECO    | 30      | 18000                | 4100    | 82  | 2725                     | 2560 | 1,2,6,22,23,29,30   |
| 30              | T8   | 48                  | 47.78    | Med Bipin | 22063          | F030/830/XP/SS/ECO    | 30      | 18000                | 3000    | 82  | 2850                     | 2680 | 1,2,6,22,23,29,30   |
|                 |      |                     |          |           | 22060          | F030/835/XP/SS/ECO    | 30      | 18000                | 3500    | 82  | 2850                     | 2680 | 1,2,6,22,23,29,30   |
|                 |      |                     |          |           | 22062          | F030/841/XP/SS/ECO    | 30      | 18000                | 4100    | 82  | 2850                     | 2680 | 1,2,6,22,23,29,30   |
| 32              | T8   | 48                  | 47.78    | Med Bipin | 22039          | F032/827/XP/ECO       | 30      | 24000                | 2700    | 84  | 3000                     | 2850 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |           | 21777          | F032/830/ECO          | 30      | 20000                | 3000    | 82  | 2950                     | 2710 | 1,2,6,8,20,21       |
|                 |      |                     |          |           | 21759          | F032/830/XP/ECO       | 30      | 24000                | 3000    | 85  | 3000                     | 2850 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |           | 21680          | F032/830/XPS/ECO      | 30      | 30000                | 3000    | 85  | 3100                     | 2945 | 1,2,6,8,14,21,28,31 |
|                 |      |                     |          |           | 21779          | F032/835/ECO          | 30      | 20000                | 3500    | 82  | 2950                     | 2710 | 1,2,6,8,20,21       |

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# OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS

## OCTRON® 800, 800 XP™ and 800 XPS® Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation    | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |            |                |                          |         |                      |         |     | Initial                  | Mean |                     |
| 32              | T8   | 48                  | 47.78    | Med Bipin  | 21763          | FO32/835/XP/ECO          | 30      | 24000                | 3500    | 85  | 3000                     | 2850 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |            | 21697          | FO32/835/XPS/ECO         | 30      | 30000                | 3500    | 85  | 3100                     | 2945 | 1,2,6,8,14,21,28,31 |
|                 |      |                     |          |            | 21676          | FO32835PLT 1776/CS 1/SKU | 1776    | 20000                | 3500    | 82  | 2950                     | 2714 | 1,2,8,20,21         |
|                 |      |                     |          |            | 21781          | FO32/841/ECO             | 30      | 20000                | 4100    | 82  | 2950                     | 2710 | 1,2,6,8,20,21       |
|                 |      |                     |          |            | 21767          | FO32/841/XP/ECO          | 30      | 24000                | 4100    | 85  | 3000                     | 2850 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |            | 21681          | FO32/841/XPS/ECO         | 30      | 30000                | 4100    | 85  | 3150                     | 2990 | 1,2,6,8,14,21,28,31 |
|                 |      |                     |          |            | 22143          | FO32/850/ECO             | 30      | 20000                | 5000    | 80  | 2800                     | 2576 | 1,2,6,8,20,21       |
|                 |      |                     |          |            | 22026          | FO32/850/XP/ECO          | 30      | 24000                | 5000    | 85  | 3000                     | 2850 | 1,2,6,8,21,22,23    |
| 40              | T8   | 60                  | 59.61    | Med Bipin  | 22144          | FO40/830/ECO             | 30      | 20000                | 3000    | 82  | 3650                     | 3473 | 1,2,6,8,20,21       |
|                 |      |                     |          |            | 21912          | FO40/830/XP/ECO          | 30      | 24000                | 3000    | 85  | 3750                     | 3560 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |            | 22145          | FO40/835/ECO             | 30      | 20000                | 3500    | 82  | 3650                     | 3473 | 1,2,6,8,20,21       |
|                 |      |                     |          |            | 21911          | FO40/835/XP/ECO          | 30      | 24000                | 3500    | 85  | 3750                     | 3560 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |            | 22146          | FO40/841/ECO             | 30      | 20000                | 4100    | 82  | 3650                     | 3473 | 1,2,6,8,20,21       |
|                 |      |                     |          |            | 21916          | FO40/841/XP/ECO          | 30      | 24000                | 4100    | 85  | 3750                     | 3560 | 1,2,6,8,21,22,23    |
|                 |      |                     |          |            | 22099          | FO96/830/XP/SS/ECO       | 24      | 18000                | 3000    | 82  | 5700                     | 5415 | 1,2,6,34,35         |
| 55              | T8   | 96                  | 94       | Single Pin | 22100          | FO96/835/XP/SS/ECO       | 24      | 18000                | 3500    | 82  | 5700                     | 5415 | 1,2,6,34,35         |
|                 |      |                     |          |            | 22101          | FO96/841/XP/SS/ECO       | 24      | 18000                | 4100    | 82  | 5700                     | 5415 | 1,2,6,34,35         |
|                 |      |                     |          |            | 22036          | FO96/830/XP/ECO          | 24      | 18000                | 3000    | 85  | 6100                     | 5795 | 1,2,6,8,14,22,35    |
| 59              | T8   | 96                  | 94       | Single Pin | 22147          | FO96/830/ECO             | 24      | 15000                | 3000    | 82  | 5900                     | 5428 | 1,2,6,6,8,36        |
|                 |      |                     |          |            | 22036          | FO96/830/XP/ECO          | 24      | 18000                | 3000    | 85  | 6100                     | 5795 | 1,2,6,8,14,22,35    |
|                 |      |                     |          |            | 22148          | FO96/835/ECO             | 24      | 15000                | 3500    | 82  | 5900                     | 5428 | 1,2,6,8,36          |
|                 |      |                     |          |            | 21740          | FO96/835/XP              | 24      | 18000                | 3500    | 85  | 6100                     | 5795 | 1,2,8,14,22,35      |
|                 |      |                     |          |            | 22034          | FO96/835/XP/ECO          | 24      | 18000                | 3500    | 85  | 6100                     | 5795 | 1,2,6,8,14,22,35    |
|                 |      |                     |          |            | 22149          | FO96/841/ECO             | 24      | 15000                | 4100    | 82  | 5900                     | 5428 | 1,2,6,6,8,36        |
|                 |      |                     |          |            | 22025          | FO96/841/XP              | 24      | 18000                | 4100    | 85  | 6100                     | 5795 | 1,2,8,14,22,35      |
|                 |      |                     |          |            | 22032          | FO96/841/XP/ECO          | 24      | 18000                | 4100    | 85  | 6100                     | 5795 | 1,2,6,8,14,22,35    |

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



FLUORESCENT

T8 Single Pin
















T8 Med Bipin

T8 U-Shaped (leg spacing of 1-5/8")

**OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS**  
**OCTRON® 800, 800 XP™ and 800 XPS® Lamps**



| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base        | Product<br>Number | Ordering Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes  |
|--------------------|------|---------------------------|-------------|-------------|-------------------|-----------------------|------------|----------------------------|------------|-----|-----------------------------|------|---|
|                    |      |                           |             |             |                   |                       |            |                            |            |     | Initial                     | Mean |   |
| 59                 | T8   | 96                        | 94          | Single Pin  | 22173             | FO96/850/ECO          | 24         | 15000                      | 5000       | 80  | 5900                        | 5428 | ☉  1,2,6,8,36  |
|                    |      |                           |             |             | 22174             | FO96/850/XP/ECO       | 24         | 18000                      | 5000       | 85  | 5900                        | 5605 |  1,2,6,8,22,27 |
| 86                 | T8   | 96                        | 93.91       | Recessed DC | 22037             | FO96/835/HO           | 24         | 18000                      | 3500       | 84  | 8200                        | 7380 | ☉  1,2,8       |
|                    |      |                           |             |             | 22040             | FO96/841/HO           | 24         | 18000                      | 4100       | 80  | 8200                        | 7380 | ☉  1,2,8       |

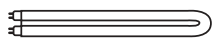
**OCTRON® 5000K And 6500K for Displays, Signage and Backlighting**

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base      | Product<br>Number | Ordering Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes   |
|--------------------|------|---------------------------|-------------|-----------|-------------------|-----------------------|------------|----------------------------|------------|-----|-----------------------------|------|--|
|                    |      |                           |             |           |                   |                       |            |                            |            |     | Initial                     | Mean |  |
| 14                 | T8   | 18                        | 17.91       | Med Bipin | 21731             | FO13/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 850                         | 805  |  1,2,6,8,21,22,23     |
|                    |      |                           |             |           |                   |                       |            |                            |            |     |                             |      |  |
| 15                 | T8   | 20                        | 19.78       | Med Bipin | 21716             | FO14/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 1000                        | 950  |  1,2,6,8,21,22,23     |
| 16                 | T8   | 10.5                      | 10.60       | Med Bipin | 21726             | FBO16/865XP           | 15         | 24000                      | 6500       | 85  | 1125                        | 1069 |  1,2,8,21,22,23,37,38 |
| 17                 | T8   | 24                        | 23.78       | Med Bipin | 21871             | FO17/950/24in         | 30         | 20000                      | 5000       | 90  | 800                         | 680  |  1,2,8,20,21          |
|                    |      |                           |             |           | 21718             | FO17/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 1250                        | 1188 |  1,2,6,8,21,22,23    |
| 21                 | T8   | 30                        | 29.78       | Med Bipin | 21869             | FO21/950/30in         | 30         | 20000                      | 5000       | 90  | 1000                        | 850  |  1,2,8,20,21        |
|                    |      |                           |             |           | 21730             | FO21/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 1600                        | 1520 |  1,2,6,8,21,22,23   |
| 25                 | T8   | 36                        | 35.78       | Med Bipin | 21872             | FO25/950/36in         | 30         | 20000                      | 5000       | 90  | 1250                        | 1063 |  1,2,8,20,21        |
|                    |      |                           |             |           | 21719             | FO25/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 2000                        | 1900 |  1,2,6,8,21,22,23   |
| 28                 | T8   | 40                        | 39.78       | Med Bipin | 21870             | FO28/950/40in         | 30         | 20000                      | 5000       | 90  | 1800                        | 1530 |  1,2,8,20,21        |
|                    |      |                           |             |           | 21727             | FO28/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 2250                        | 2138 |  1,2,6,8,21,22,23   |
| 32                 | T8   | 48                        | 47.78       | Med Bipin | 21880             | FO32/950/48in         | 30         | 20000                      | 5000       | 90  | 1800                        | 1530 |  1,2,8,20,21        |
|                    |      |                           |             |           | 21720             | FO32/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 2850                        | 2708 |  1,2,6,8,21,22,23   |
| 40                 | T8   | 60                        | 59.61       | Med Bipin | 21873             | FO40/950/60in         | 30         | 20000                      | 5000       | 90  | 2200                        | 1870 |  1,2,8,20,21        |
|                    |      |                           |             |           | 21721             | FO40/865/XP/ECO       | 30         | 24000                      | 6500       | 85  | 3650                        | 3468 |  1,2,6,8,21,22,23   |

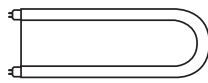
**OCTRON® CURVALUME® U-Shaped Lamps, 1 5/8" Leg Spacing**

The OCTRON® CURVALUME® lamps are made to the same color standards and may be used in combination with other SYLVANIA OCTRON lamps to meet the needs of lighting installations where OCTRON T8 systems are used. Since Curvalume and linear OCTRON lamps of the same/similar wattages operate on the ballasts, the types of ballasts used in an installation can be minimized. When OCTRON FBO31 lamps are used in 2x2 luminaires, the 2x2 luminaires can deliver light levels similar to 2x4 luminaires with the same number of linear OCTRON lamps. The nominal length of the CURVALUME lamp is measured from base face to the outside of the glass bend.

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base      | Product<br>Number | Ordering Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes  |
|--------------------|------|---------------------------|-------------|-----------|-------------------|-----------------------|------------|----------------------------|------------|-----|-----------------------------|------|---|
|                    |      |                           |             |           |                   |                       |            |                            |            |     | Initial                     | Mean |   |
| 16                 | T8   | 10.5                      | 10.60       | Med Bipin | 21834             | FBO16/830             | 15         | 20000                      | 3000       | 82  | 1125                        | 1035 |  1,2,8,20,21,37,38 |
|                    |      |                           |             |           | 21835             | FBO16/835             | 15         | 20000                      | 3500       | 82  | 1125                        | 1035 |  1,2,8,20,21,37,38 |



T8 U-Shaped (leg spacing of 1-5/8")



T8 U-Shaped (leg spacing of 6")

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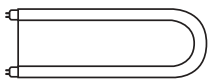
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**OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS****OCTRON® CURVALUME® U-Shaped Lamps, 1 5/8" Leg Spacing**

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base      | Product<br>Number | Ordering Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>Initial Mean |            | Symbols &<br>Footnotes |
|--------------------|------|---------------------------|-------------|-----------|-------------------|-----------------------|------------|----------------------------|------------|-----|-------------------------------|------------|------------------------|
|                    |      |                           |             |           |                   |                       |            |                            |            |     | @25°C/77°F                    | @25°C/77°F |                        |
| 16                 | T8   | 10.5                      | 10.60       | Med Bipin | 21836             | FBO16/841             | 15         | 20000                      | 4100       | 82  | 1125                          | 1035       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21726             | FBO16/865XP           | 15         | 24000                      | 6500       | 85  | 1125                          | 1069       | 1,2,8,21,22,23,37,38   |
| 24                 | T8   | 16.5                      | 16.6        | Med Bipin | 21874             | FBO24/830             | 15         | 20000                      | 3000       | 82  | 1925                          | 1771       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21875             | FBO24/835             | 15         | 20000                      | 3500       | 82  | 1925                          | 1771       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21876             | FBO24/841             | 15         | 20000                      | 4100       | 82  | 1925                          | 1771       | 1,2,8,20,21,37,38      |
| 31                 | T8   | 22.5                      | 22.6        | Med Bipin | 21877             | FBO31/830             | 15         | 20000                      | 3000       | 82  | 2725                          | 2507       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21693*            | FBO31/830/XP/ECO      | 15         | 24000                      | 3000       | 85  | 2775                          | 2636       | 1,2,6,8,21,22,23,37,38 |
|                    |      |                           |             |           | 21878             | FBO31/835             | 15         | 20000                      | 3500       | 82  | 2725                          | 2507       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21695*            | FBO31/835/XP/ECO      | 15         | 24000                      | 3500       | 85  | 2775                          | 2636       | 1,2,6,8,21,22,23,37,38 |
|                    |      |                           |             |           | 21879             | FBO31/841             | 15         | 20000                      | 3500       | 82  | 2725                          | 2507       | 1,2,8,20,21,37,38      |
|                    |      |                           |             |           | 21696*            | FBO31/841/XP/ECO      | 15         | 24000                      | 4100       | 85  | 2775                          | 2636       | 1,2,6,8,21,22,23,37,38 |
|                    |      |                           |             |           | 21926*            | FBO31/841XP           | 15         | 24000                      | 4100       | 85  | 2775                          | 2636       | 1,2,8,21,22,23,37,38   |
|                    |      |                           |             |           | 21819             | FBO31/750             | 15         | 20000                      | 5000       | 75  | 2600                          | 2340       | 1,2,8,20,21,37,38      |

**OCTRON® CURVALUME® U-Shaped Lamps, 6" Leg Spacing**

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base      | Product<br>Number | Ordering Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>Initial Mean |            | Symbols &<br>Footnotes |
|--------------------|------|---------------------------|-------------|-----------|-------------------|-----------------------|------------|----------------------------|------------|-----|-------------------------------|------------|------------------------|
|                    |      |                           |             |           |                   |                       |            |                            |            |     | @25°C/77°F                    | @25°C/77°F |                        |
| 30                 | T8   | 22.5                      | 22.6        | Med Bipin | 22170*            | FBO30/830XP/6/SS/ECO  | 16         | 18000                      | 3000       | 82  | 2800                          | 2632       | 1,2,6,22,23,29,30,37   |
|                    |      |                           |             |           | 22171*            | FBO30/835XP/6/SS/ECO  | 16         | 18000                      | 3500       | 82  | 2800                          | 2632       | 1,2,6,22,23,29,30,37   |
|                    |      |                           |             |           | 22172*            | FBO30/841XP/6/SS/ECO  | 16         | 18000                      | 4100       | 82  | 2800                          | 2632       | 1,2,6,22,23,29,30,37   |
| 32                 | T8   | 22.5                      | 22.6        | Med Bipin | 22046             | FBO32/730/6/ECO       | 16         | 20000                      | 3000       | 75  | 2750                          | 2475       | 1,2,6,8,20,21,37       |
|                    |      |                           |             |           | 21970*            | FBO32/830/6           | 16         | 20000                      | 3000       | 82  | 2850                          | 2622       | 1,2,8,20,21,37         |
|                    |      |                           |             |           | 21663             | FBO32/830/6/ECO       | 16         | 20000                      | 3000       | 82  | 2850                          | 2622       | 1,2,6,8,20,21,37       |
|                    |      |                           |             |           | 22054             | FBO32/830XP/6/ECO     | 16         | 24000                      | 3000       | 85  | 2900                          | 2755       | 1,2,6,8,21,22,23,37    |
|                    |      |                           |             |           | 22094             | FBO32/830XPS/6/ECO    | 16         | 24000                      | 3000       | 85  | 3000                          | 2850       | 1,2,6,8,21,37,39,40    |
|                    |      |                           |             |           | 22051             | FBO32/735/6/ECO       | 16         | 20000                      | 3500       | 75  | 2750                          | 2475       | 1,2,6,8,20,21,37       |



T8 U-Shaped (leg spacing of 6")



T5 Mini Bipin

## OCTRON® AND OCTRON® CURVALUME® FLUORESCENT LAMPS

### OCTRON® CURVALUME® U-Shaped Lamps, 6" Leg Spacing

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 32              | T8   | 22.5                | 22.6     | Med Bipin | 21670          | FBO32/835/6/ECO       | 16      | 20000                | 3500    | 82  | 2850                     | 2622 | 1,2,6,8,20,21,37    |
|                 |      |                     |          |           | 21984          | FBO32/835XP/6         | 16      | 24000                | 3500    | 85  | 2900                     | 2755 | 1,2,8,21,22,23,37   |
|                 |      |                     |          |           | 22055          | FBO32/835XP/6/ECO     | 16      | 24000                | 3500    | 85  | 2900                     | 2755 | 1,2,6,8,21,22,23,37 |
|                 |      |                     |          |           | 22095          | FBO32/835XPS/6/ECO    | 16      | 24000                | 3500    | 85  | 3000                     | 2850 | 1,2,6,8,21,37,39,40 |
|                 |      |                     |          |           | 22052          | FBO32/741/6/ECO       | 16      | 20000                | 4100    | 75  | 2750                     | 2475 | 1,2,6,8,20,21,37    |
|                 |      |                     |          |           | 21671          | FBO32/841/6/ECO       | 16      | 20000                | 4100    | 82  | 2850                     | 2622 | 1,2,6,8,20,21,37    |
|                 |      |                     |          |           | 22057          | FBO32/841XP/6/ECO     | 16      | 24000                | 4100    | 85  | 2900                     | 2755 | 1,2,6,8,21,22,23,37 |
|                 |      |                     |          |           | 22096          | FBO32/841XPS/6/ECO    | 16      | 24000                | 4100    | 85  | 3000                     | 2850 | 1,2,6,8,21,37,39,40 |
|                 |      |                     |          |           | 22053          | FBO32/750/6/ECO       | 16      | 20000                | 5000    | 75  | 2625                     | 2363 | 1,2,6,8,20,21,37    |

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## PENTRON® T5 LAMPS

PENTRON® T5 lamps are designed to operate on dedicated electronic programmed rapid start (also known as programmed start) ballasts only. These lamps are globally standardized and are designed to operate with their peak light output at 35°C (95°F) ambient temperature. For comparison purposes and to accommodate existing lamp measurement standards, ratings are given at both 25°C (77°F) and 35°C (95°F). The new lamp dimensions allow for innovative fixture designs and improved fixture performance. A PENTRON Fixture Design Guide is available on request.

### PENTRON® High Performance T5 Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F (@35°C/95°F) |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|---------------------------------------|------|---------------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial                               | Mean |                     |
| 14              | T5   | 24                  | 22.2     | Mini Bipin | 20810          | FP14/830              | 40      | 20000                | 3000    | 82  | 1200                                  | 1116 | 1,2,8,9,11          |
|                 |      |                     |          |            | 20907          | FP14/830/ECO          | 40      | 20000                | 3000    | 82  | 1200                                  | 1116 | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20812          | FP14/835              | 40      | 20000                | 3500    | 82  | 1200                                  | 1116 | 1,2,8,9,11          |
|                 |      |                     |          |            | 20908          | FP14/835/ECO          | 40      | 20000                | 3500    | 82  | 1200                                  | 1116 | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20822          | FP14/841              | 40      | 20000                | 4100    | 82  | 1200                                  | 1116 | 1,2,8,9,11          |
|                 |      |                     |          |            | 20914          | FP14/841/ECO          | 40      | 20000                | 4100    | 82  | 1200                                  | 1116 | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20823          | FP21/830              | 40      | 20000                | 3000    | 82  | 1900                                  | 1767 | 1,2,8,9,11          |
| 21              | T5   | 36                  | 34       | Mini Bipin | 20919          | FP21/830/ECO          | 40      | 20000                | 3000    | 82  | 1900                                  | 1767 | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20832          | FP21/835              | 40      | 20000                | 3500    | 82  | 1900                                  | 1767 | 1,2,8,9,11          |
|                 |      |                     |          |            | 20921          | FP21/835/ECO          | 40      | 20000                | 3500    | 82  | 1890                                  | 1767 | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20835          | FP21/841              | 40      | 20000                | 4100    | 82  | 1900                                  | 1767 | 1,2,8,9,11          |
|                 |      |                     |          |            |                |                       |         |                      |         |     |                                       |      |                     |



**PENTRON® T5 LAMPS**

**PENTRON® High Performance T5 Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens      |                 | Symbols & Footnotes |            |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------|-----------------|---------------------|------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial @25°C/77°F | Mean @35°C/95°F |                     |            |
| 21              | T5   | 36                  | 34       | Mini Bipin | 20924☼         | FP21/841/ECO          | 40      | 20000                | 4100    | 82  | 1890<br>2100       | 1767<br>1953    | ☼☼ 1,2,6,8,9,11     |            |
| 28              | T5   | 48                  | 45.8     | Mini Bipin | 20838☼         | FP28/60[RED]          | 40      | 10000                |         |     |                    | 2100            |                     | 1,2,8,9,11 |
|                 |      |                     |          |            | 20839☼         | FP28/66[GREEN]        | 40      | 10000                |         |     |                    | 3500            |                     | 1,2,8,9,11 |
|                 |      |                     |          |            | 20840☼         | FP28/67[BLUE]         | 40      | 10000                |         |     |                    | 700             |                     | 1,2,8,9,11 |
|                 |      |                     |          |            | 20836☼         | FP28/830              | 40      | 20000                | 3000    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20868☼         | FP28/830/ECO          | 40      | 20000                | 3000    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,6,8,9,11     |            |
|                 |      |                     |          |            | 20841☼         | FP28/835              | 40      | 20000                | 3500    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20901☼         | FP28/835/ECO          | 40      | 20000                | 3500    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,6,8,9,11     |            |
|                 |      |                     |          |            | 20842☼         | FP28/841              | 40      | 20000                | 4100    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20902☼         | FP28/841/ECO          | 40      | 20000                | 4100    | 82  | 2600<br>2900       | 2418<br>2697    | ☼☼ 1,2,6,8,9,11     |            |
| 35              | T5   | 60                  | 57.6     | Mini Bipin | 20843☼         | FP35/830              | 40      | 20000                | 3000    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20925☼         | FP35/830/ECO          | 40      | 20000                | 3000    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,6,8,9,11     |            |
|                 |      |                     |          |            | 20844☼         | FP35/835              | 40      | 20000                | 3500    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20926☼         | FP35/835/ECO          | 40      | 20000                | 3500    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,6,8,9,11     |            |
|                 |      |                     |          |            | 20845☼         | FP35/841              | 40      | 20000                | 4100    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,8,9,11       |            |
|                 |      |                     |          |            | 20927☼         | FP35/841/ECO          | 40      | 20000                | 4100    | 82  | 3300<br>3650       | 3069<br>3394    | ☼☼ 1,2,6,8,9,11     |            |

**PENTRON® High Output, High Performance T5 Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens      |                 | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------|-----------------|---------------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial @25°C/77°F | Mean @35°C/95°F |                     |
| 24              | T5   | 24                  | 22.2     | Mini Bipin | 20846          | FP24/830/HO           | 40      | 20000                | 3000    | 82  | 1750<br>2000       | 1627<br>1860    | ☼☼ 1,2,8,9,11       |
|                 |      |                     |          |            | 20928☼         | FP24/830/HO/ECO       | 40      | 20000                | 3000    | 82  | 1750<br>2000       | 1627<br>1860    | ☼☼ 1,2,6,8,9,11     |
|                 |      |                     |          |            | 20852          | FP24/835/HO           | 40      | 20000                | 3500    | 82  | 1750<br>2000       | 1627<br>1860    | ☼☼ 1,2,8,9,11       |
|                 |      |                     |          |            | 20929☼         | FP24/835/HO/ECO       | 40      | 20000                | 3500    | 82  | 1760<br>2000       | 1627<br>1860    | ☼☼ 1,2,6,8,9,11     |
|                 |      |                     |          |            | 20853          | FP24/841/HO           | 40      | 20000                | 4100    | 82  | 1750<br>2000       | 1627<br>1860    | ☼☼ 1,2,8,9,11       |
|                 |      |                     |          |            | 20931☼         | FP24/841/HO/ECO       | 40      | 20000                | 4100    | 82  | 1760<br>2000       | 1627<br>1860    | ☼☼ 1,2,6,8,9,11     |
| 39              | T5   | 36                  | 34       | Mini Bipin | 20854          | FP39/830/HO           | 40      | 20000                | 3000    | 82  | 3100<br>3500       | 2883<br>3255    | ☼☼ 1,2,8,9,11       |

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**PENTRON® T5 LAMPS**  
**PENTRON® High Output, High Performance T5 Lamps**

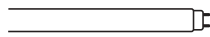
| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens      |                 | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------|-----------------|---------------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial @25°C/77°F | Mean @35°C/95°F |                     |
| 39              | T5   | 36                  | 34       | Mini Bipin | 20932          | FP39/830/HO/ECO       | 40      | 20000                | 3000    | 82  | 3100               | 2883            | 1,2,6,8,9,11        |
|                 |      |                     |          |            | 20855          | FP39/835/HO           | 40      | 20000                | 3500    | 82  | 3100               | 2883            |                     |
|                 |      |                     |          |            | 20933          | FP39/835/HO/ECO       | 40      | 20000                | 3500    | 82  | 3100               | 2883            |                     |
|                 |      |                     |          |            | 20856          | FP39/841/HO           | 40      | 20000                | 4100    | 82  | 3100               | 2883            |                     |
|                 |      |                     |          |            | 20934          | FP39/841/HO/ECO       | 40      | 20000                | 4100    | 82  | 3100               | 2883            |                     |
|                 |      |                     |          |            | 20855          | FP39/835/HO           | 40      | 20000                | 3500    | 82  | 3100               | 2883            |                     |
| 54              | T5   | 48                  | 45.8     | Mini Bipin | 20857          | FP54/830/HO           | 40      | 20000                | 3000    | 82  | 4450               | 4138            | 1,2,8,9,11          |
|                 |      |                     |          |            | 20903          | FP54/830/HO/ECO       | 40      | 20000                | 3000    | 82  | 4450               | 4138            |                     |
|                 |      |                     |          |            | 20858          | FP54/835/HO           | 40      | 20000                | 3500    | 82  | 4450               | 4138            |                     |
|                 |      |                     |          |            | 20904          | FP54/835/HO/ECO       | 40      | 20000                | 3500    | 82  | 4450               | 4138            |                     |
|                 |      |                     |          |            | 20860          | FP54/841/HO           | 40      | 20000                | 4100    | 82  | 4450               | 4138            |                     |
|                 |      |                     |          |            | 20906          | FP54/841/HO/ECO       | 40      | 20000                | 4100    | 82  | 4450               | 4138            |                     |
|                 |      |                     |          |            | 20862          | FP54/860/HO/ECO       | 40      | 20000                | 6000    | 82  | 4050               | 3766            |                     |
| 80              | T5   | 60                  | 57.6     | Mini Bipin | 20863          | FP80/830/HO           | 40      | 20000                | 3000    | 82  | 6150               | 5719            | 1,2,8,9,11          |
|                 |      |                     |          |            | 20935          | FP80/830/HO/ECO       | 40      | 20000                | 3000    | 82  | 6150               | 5719            |                     |
|                 |      |                     |          |            | 20864          | FP80/835/HO           | 40      | 20000                | 3500    | 82  | 6150               | 5719            |                     |
|                 |      |                     |          |            | 20936          | FP80/835/HO/ECO       | 40      | 20000                | 3500    | 82  | 6150               | 5719            |                     |
|                 |      |                     |          |            | 20865          | FP80/841/HO           | 40      | 20000                | 4100    | 82  | 6150               | 5719            |                     |
|                 |      |                     |          |            | 20937          | FP80/841/HO/ECO       | 40      | 20000                | 4100    | 82  | 6150               | 5719            |                     |

**PENTRON® Circline T5 Lamps**

| Nominal Wattage | Bulb | Outside Diameter (in) | Base  | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens      |                 | Symbols & Footnotes |
|-----------------|------|-----------------------|-------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------|-----------------|---------------------|
|                 |      |                       |       |                |                       |         |                      |         |     | Initial @25°C/77°F | Mean @35°C/95°F |                     |
| 22              | T5   | 8.66 - 9.06           | 2GX13 | 20702          | FPC22/830             | 12      | 12000                | 3000    | 82  | 1800               | 1585            | 1,2,8,9,11          |
|                 |      |                       |       | 20712          | FPC22/835             | 12      | 12000                | 3500    | 82  | 1800               | 1585            |                     |
|                 |      |                       |       | 20715          | FPC22/841             | 12      | 12000                | 4100    | 82  | 1800               | 1585            |                     |
| 40              | T5   | 11.54 - 12.01         | 2GX13 | 20731          | FPC40/830             | 12      | 12000                | 3000    | 82  | 3200               | 2815            | 1,2,8,9,11          |
|                 |      |                       |       | 20732          | FPC40/835             | 12      | 12000                | 3500    | 82  | 3200               | 2815            |                     |
|                 |      |                       |       | 20733          | FPC40/841             | 12      | 12000                | 4100    | 82  | 3200               | 2815            |                     |



Circline 4-Pin T5



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### PENTRON® T5 LAMPS PENTRON® Circline T5 Lamps

| Nominal Wattage | Bulb | Outside Diameter (in) | Base  | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|-----------------------|-------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 55              | T5   | 11.54 - 12.01         | 2GX13 | 20741          | FPC55/830/HO          | 12      | 12000                | 3000    | 82  | 4000                             | 3520                          | ☑ 1,2,8,9,11        |
|                 |      |                       |       | 20750          | FPC55/835/HO          | 12      | 12000                | 3500    | 82  | 4000                             | 3520                          | ☑ 1,2,8,9,11        |
|                 |      |                       |       | 20751          | FPC55/841/HO          | 12      | 12000                | 4100    | 82  | 4000                             | 3520                          | ☑ 1,2,8,9,11        |

### RAPID START LAMPS

#### 3' SUPERSAVER® Rapid Start Lamps

Rapid start lamps, 3-foot and 4-foot in length, are typically designated by their wattage: e.g. F40 = Fluorescent 40W. Therefore, lamps previously designated as F30T12/RS/SS, F40/SS and FB40/SS energy saving types will now be designated as F25T12/RS/SS, F34/SS and FB34/SS, respectively, to comply with standard lamp designation nomenclature for these families of lamps.

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation                                | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|--|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 25              | T12  | 36                  | 35.78    | Med Bipin | 23451          | F25T12/D30/RS/SS<br><i>formerly F30T12/D30/RS/SS</i> | 30      | 18000                | 3000    | 70  | 2050                             | 1804                          | ☑ 1,2,42            |
|                 |      |                     |          |           | 23473          | F25T12/WW/RS/SS<br><i>formerly F30T12/WW/RS/SS</i>   | 30      | 18000                | 3000    | 52  | 1975                             | 1679                          | 1,2,42              |
|                 |      |                     |          |           | 23485          | F25T12/D35/RS/SS<br><i>formerly F30T12/D35/RS/SS</i> | 30      | 18000                | 3500    | 70  | 2050                             | 1804                          | ☑ 1,2,42            |
|                 |      |                     |          |           | 23472          | F25T12/CW/RS/SS<br><i>formerly F30T12/CW/RS/SS</i>   | 30      | 18000                | 4200    | 62  | 1925                             | 1636                          | 1,2,42              |

#### 3' Standard Rapid Start Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 30              | T12  | 36                  | 35.78    | Med Bipin | 23474          | F30T12/D830/RS        | 30      | 18000                | 3000    | 80  | 2290                             | 2061                          | ☑ 1,2,8,43          |
|                 |      |                     |          |           | 23490          | F30T12/WW/RS          | 6       | 18000                | 3000    | 52  | 2275                             | 1934                          | 1,2,8,43            |
|                 |      |                     |          |           | 23482          | F30T12/WW/RS          | 30      | 18000                | 3000    | 52  | 2275                             | 1934                          | 1,2,8,43            |
|                 |      |                     |          |           | 23484          | F30T12/D35/RS         | 30      | 18000                | 3500    | 70  | 2250                             | 1980                          | ☑ 1,2,8,43          |
|                 |      |                     |          |           | 23139          | F30T12/D835/RS        | 30      | 18000                | 3500    | 80  | 2290                             | 2061                          | ☑ 1,2,8,43          |
|                 |      |                     |          |           | 23477          | F30T12/CWX/RS         | 30      | 18000                | 4100    | 87  | 1600                             | 1360                          | ☑ 1,2,8,43          |
|                 |      |                     |          |           | 23488          | F30T12/D41/RS         | 30      | 18000                | 4100    | 70  | 2250                             | 1980                          | ☑ 1,2,8,43          |
|                 |      |                     |          |           | 23493          | F30T12/CW/RS          | 6       | 18000                | 4200    | 62  | 2200                             | 1870                          | 1,2,8,43            |
|                 |      |                     |          |           | 23476          | F30T12/CW/RS          | 30      | 18000                | 4200    | 62  | 2200                             | 1870                          | 1,2,8,43            |
|                 |      |                     |          |           | 23487          | F30T12/CW/RS/UPC      | 30      | 18000                | 4200    | 62  | 2200                             | 1870                          | 1,2,8,43            |
|                 |      |                     |          |           | 23478          | F30T12/D/RS           | 30      | 18000                | 6500    | 76  | 1900                             | 1615                          | ☑ 1,2,8,43          |

#### 4' SUPERSAVER® Rapid Start Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation                              | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|--|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 34              | T12  | 48                  | 47.78    | Med Bipin | 24535          | F34/D30/SS/ECO<br><i>formerly F40/D30/SS/ECO</i>   | 30      | 20000                | 3000    | 70  | 2800                             | 2520                          | ☑ 1,2,6,43,44,45,46 |
|                 |      |                     |          |           | 24589          | F34/D830/SS<br><i>formerly F40/D830/SS</i>         | 30      | 20000                | 3000    | 80  | 2900                             | 2610                          | ☑ 1,2,43,44,45,46   |
|                 |      |                     |          |           | 24544          | F34/D830/SS/ECO<br><i>formerly F40/D830/SS/ECO</i> | 30      | 20000                | 3000    | 80  | 2900                             | 2610                          | ☑ 1,2,6,43,44,45,46 |
|                 |      |                     |          |           | 24595          | F34WW/SS<br><i>formerly F40WW/SS</i>               | 30      | 20000                | 3000    | 52  | 2750                             | 2365                          | ☑ 1,2,43,44,45,46   |

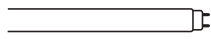
## RAPID START LAMPS

## 4' SUPERSAVER® Rapid Start Lamps

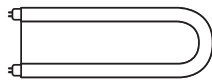
| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation   | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes  |
|-----------------|------|---------------------|----------|-----------|----------------|---|---------|----------------------|---------|-----|----------------------------------|-------------------------------|----------------------|
| 34              | T12  | 48                  | 47.78    | Med Bipin | 24538          | <b>F34WW/SS/ECO</b><br><i>formerly F40WW/SS/ECO</i>             | 30      | 20000                | 3000    | 52  | 2750                             | 2365                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24591          | <b>F34W/SS</b><br><i>formerly F40W/SS</i>                       | 30      | 20000                | 3450    | 57  | 2750                             | 2365                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24585          | <b>F34/D35/SS</b><br><i>formerly F40/D35/SS</i>                 | 30      | 20000                | 3500    | 70  | 2800                             | 2520                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24522          | <b>F34/D35/SS/CVP</b><br><i>formerly F40/D35/SS/CVP</i>         | 10      | 20000                | 3500    | 70  | 2800                             | 2520                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24540          | <b>F34/D35/SS/ECO</b><br><i>formerly F40/D35/SS/ECO</i>         | 30      | 20000                | 3500    | 70  | 2800                             | 2520                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24547          | <b>F34/D835/SS/ECO</b><br><i>formerly F40/D835/SS/ECO</i>       | 30      | 20000                | 3500    | 80  | 2900                             | 2610                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24542          | <b>F34/D41/SS/ECO</b><br><i>formerly F40/D41/SS/ECO</i>         | 30      | 20000                | 4100    | 70  | 2800                             | 2520                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24554          | <b>F34/D841/SS/ECO</b><br><i>formerly F40/D841/SS/ECO</i>       | 30      | 20000                | 4100    | 80  | 2900                             | 2610                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24588          | <b>F34CW/SS</b><br><i>formerly F40CW/SS</i>                     | 30      | 20000                | 4100    | 87  | 1925                             | 1656                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24590          | <b>F34LW/SS</b><br><i>formerly F40LW/SS</i>                     | 30      | 20000                | 4150    | 48  | 2825                             | 2430                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24566          | <b>F34LW/SS/ECO</b><br><i>formerly F40LW/SS/ECO</i>             | 30      | 20000                | 4150    | 48  | 2825                             | 2430                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24508          | <b>F34CW/RS/SS/672PLT</b><br><i>formerly F40CW/RS/SS/672PLT</i> | 672     | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24594          | <b>F34CW/SS</b><br><i>formerly F40CW/SS</i>                     | 30      | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24516          | <b>F34CW/SS/10</b><br><i>formerly F40CW/SS/10</i>               | 10      | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24524          | <b>F34CW/SS/CVP</b><br><i>formerly F40CW/SS/CVP</i>             | 10      | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24596          | <b>F34CW/SS/ECO</b><br><i>formerly F40CW/SS/ECO</i>             | 30      | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,6,43,44,45,46  |
|                 |      |                     |          |           | 24396          | <b>F34CW/SS/SL</b><br><i>formerly F40CW/SS/SL</i>               | 30      | 20000                | 4200    | 62  | 2600                             | 2235                          | ☉ 1,2,25,26,43,44,45 |
|                 |      |                     |          |           | 28012          | <b>F34CW/SS/UPC</b><br><i>formerly F40CW/SS/UPC</i>             | 30      | 20000                | 4200    | 62  | 2650                             | 2279                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24706          | <b>F34/D865/SS</b><br><i>formerly F40/D865/SS</i>               | 30      | 20000                | 6500    | 80  | 2650                             | 2385                          | ☉ 1,2,43,44,45,46    |
|                 |      |                     |          |           | 24599          | <b>F34/DX/SS</b><br><i>formerly F40/DX/SS</i>                   | 30      | 20000                | 6500    | 88  | 1930                             | 1565                          | ☉ 1,2,43,44,45,46    |

## 4' Standard Rapid Start Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 40              | T12  | 48                  | 47.78    | Med Bipin | 24673          | <b>F40/GO</b>         | 10      | 20000                |         |     | 1980                             |                               | 1,2,8,43,44,46,47   |
|                 |      |                     |          |           | 24454          | <b>F40IF</b>          | 30      | 20000                | 2750    | 89  | 1480                             | 1273                          | ☉ 1,2,8,43,44,46,47 |



T12 Med Bipin



T12 U-Shaped (leg spacing of 3-5/8" or 6")

## RAPID START LAMPS

### 4' Standard Rapid Start Lamps

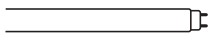
| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes      |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|--------------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                          |
| 40              | T12  | 48                  | 47.78    | Med Bipin | 24521          | F40/D30/ECO           | 30      | 20000                | 3000    | 70  | 3200                     | 2880 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24543          | F40/D830/ECO          | 30      | 20000                | 3000    | 80  | 3300                     | 2970 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24537          | F40/D35/ECO           | 30      | 20000                | 3500    | 70  | 3200                     | 2880 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24546          | F40/D835/ECO          | 30      | 20000                | 3500    | 80  | 3300                     | 2970 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24438          | F40N                  | 30      | 20000                | 3600    | 86  | 2100                     | 1806 | Ⓜ 1,2,8,43,44, 46,47     |
|                 |      |                     |          |           | 24584          | F40/D41               | 30      | 20000                | 4100    | 70  | 3200                     | 2880 | Ⓢ Ⓜ 1,2,8, 43,44,46,47   |
|                 |      |                     |          |           | 24541          | F40/D41/ECO           | 30      | 20000                | 4100    | 70  | 3200                     | 2880 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24553          | F40/D841/ECO          | 30      | 20000                | 4100    | 80  | 3300                     | 2970 | Ⓢ Ⓜ 1,2, 6,8,43,44,46,47 |
|                 |      |                     |          |           | 24442          | F40CWX                | 10      | 20000                | 4100    | 87  | 2150                     | 1849 | Ⓜ 1,2,8,43,44, 46,47     |
|                 |      |                     |          |           | 24441          | F40CWX                | 30      | 20000                | 4100    | 87  | 2150                     | 1849 | Ⓜ 1,2,8,43,44, 46,47     |
|                 |      |                     |          |           | 24683          | F40DSGN50             | 30      | 20000                | 5000    | 90  | 2200                     | 1892 | Ⓜ 1,2,8,43,44, 46,47     |
|                 |      |                     |          |           | 24570          | F40/D865              | 30      | 20000                | 6500    | 80  | 3000                     | 2700 | Ⓢ Ⓜ 1,2,8, 43,44,46,47   |
|                 |      |                     |          |           | 24477          | F40/DX                | 30      | 20000                | 6500    | 88  | 2180                     | 1770 | Ⓜ 1,2,8,43,44, 46,47     |

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### CURVALUME® Rapid Start SUPERSAVER® - U-Shaped, 6" Leg Spacing

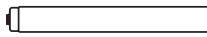
| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation                                | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|--|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |           |                |  |         |                      |         |     | Initial                  | Mean |                     |
| 34              | T12  | 22.5                | 22.6     | Med Bipin | 24063          | FB34/D30/6/SS<br><i>formerly FB40/D30/6/SS</i>       | 12      | 18000                | 3000    | 70  | 2730                     | 2457 | Ⓢ Ⓜ 1,2,43, 45      |
|                 |      |                     |          |           | 24047          | FB34/WW/6/SS<br><i>formerly FB40/WW/6/SS</i>         | 12      | 18000                | 3000    | 52  | 2650                     | 2279 | Ⓢ 1,2,43,45         |
|                 |      |                     |          |           | 24052          | FB34/WW/6/SS/ECO<br><i>formerly FB40/WW/6/SS/ECO</i> | 12      | 18000                | 3000    | 52  | 2650                     | 2279 | Ⓢ Ⓜ 1,2,6, 43,45    |
|                 |      |                     |          |           | 24062          | FB34/WW/6/SS/UPC<br><i>formerly FB40/WW/6/SS</i>     | 12      | 18000                | 3000    | 52  | 2650                     | 2279 | Ⓢ 1,2,43,45         |
|                 |      |                     |          |           | 24065          | FB34/D35/6/SS<br><i>formerly FB40/D35/SS</i>         | 12      | 18000                | 3500    | 70  | 2730                     | 2457 | Ⓢ Ⓜ 1,2,43, 45      |
|                 |      |                     |          |           | 24067          | FB34/D41/6/SS<br><i>formerly FB40/D41/SS</i>         | 12      | 18000                | 4100    | 70  | 2730                     | 2457 | Ⓢ Ⓜ 1,2,43, 45      |
|                 |      |                     |          |           | 24049          | FB34/LW/6/SS<br><i>formerly FB40/LW/6/SS</i>         | 12      | 18000                | 4150    | 48  | 2800                     | 2408 | Ⓢ 1,2,43,45         |
|                 |      |                     |          |           | 24046          | FB34/CW/6/SS<br><i>formerly FB40/CW/6/SS</i>         | 12      | 18000                | 4200    | 62  | 2600                     | 2236 | Ⓢ 1,2,43,45         |
|                 |      |                     |          |           | 24054          | FB34/CW/6/SS/ECO<br><i>formerly FB40/CW/6/SS/ECO</i> | 12      | 18000                | 4200    | 62  | 2600                     | 2236 | Ⓢ Ⓜ 1,2,6, 43,45    |



T12 Med Bipin



Circline 4-Pin T9



T12 RDC

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## RAPID START LAMPS

## CURVALUME® Rapid Start SUPERSAVER® - U-Shaped, 6" Leg Spacing

| Nominal<br>Wattage | Bulb | Nominal        |             | Base      | Product<br>Number | Ordering<br>Abbreviation                         | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|----------------|-------------|-----------|-------------------|--|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | Length<br>(in) | MOL<br>(in) |           |                   |  |            |                            |            |     | Initial                     | Mean |                        |
| 34                 | T12  | 22.5           | 22.6        | Med Bipin | 24059             | FB34/CW/6/SS/UPC<br><i>formerly FB40/CW/SS/6</i> | 12         | 18000                      | 4200       | 62  | 2600                        | 2236 | Ⓢ 1,2,43,45            |

## CURVALUME® Rapid Start Standard Lamps - U-Shaped, 6" Leg Spacing

| Nominal<br>Wattage | Bulb | Nominal        |             | Base      | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|----------------|-------------|-----------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | Length<br>(in) | MOL<br>(in) |           |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 40                 | T12  | 22.5           | 22.6        | Med Bipin | 24080             | FB40/D30/6               | 12         | 18000                      | 3000       | 70  | 3050                        | 2745 | Ⓢ 1,2,8,43             |
|                    |      |                |             |           | 24017             | FB40/D830/6              | 12         | 18000                      | 3000       | 80  | 3200                        | 2880 | Ⓢ 1,2,8,43             |
|                    |      |                |             |           | 24081             | FB40/D35/6               | 12         | 18000                      | 3500       | 70  | 3050                        | 2745 | Ⓢ 1,2,8,43             |
|                    |      |                |             |           | 24004             | FB40/CWX/6               | 12         | 18000                      | 4100       | 87  | 2100                        | 1806 | Ⓢ 1,2,8,43             |
|                    |      |                |             |           | 24082             | FB40/D41/6               | 12         | 18000                      | 4100       | 70  | 3050                        | 2745 | Ⓢ 1,2,8,43             |

## Circline T9 Rapid Start Lamps

| Nominal<br>Wattage | Bulb | Outside          |  | Base  | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|------------------|--|-------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | Diameter<br>(in) |  |       |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 20                 | T9   | 6.25-6.75        |  | 4 Pin | 20155             | FC6T9/WW/RS              | 12         | 8000                       | 3000       | 52  | 800                         | 696  | 1,2,8,48               |
|                    |      |                  |  |       | 20156             | FC6T9/CW/RS              | 12         | 8000                       | 4200       | 62  | 750                         | 653  | 1,2,8,48               |
| 22                 | T9   | 8.00-8.50        |  | 4 Pin | 20209             | FC8T9/DWW/RP             | 6          | 12000                      | 3000       | 70  | 1100                        | 990  | Ⓢ 1,2,8,48             |
|                    |      |                  |  |       | 20088             | FC8T9/WW/RS              | 12         | 12000                      | 3000       | 52  | 1050                        | 914  | 1,2,8,48               |
|                    |      |                  |  |       | 20148             | FC8T9/CW/RS              | 12         | 12000                      | 4200       | 62  | 1050                        | 914  | 1,2,8,48               |
|                    |      |                  |  |       | 20151             | FC8T9/CW/RS/6 PACK       | 6          | 12000                      | 4200       | 62  | 1050                        | 914  | 1,2,8,48               |
|                    |      |                  |  |       | 20080             | FC8T9/D/RS               | 12         | 12000                      | 6500       | 76  | 900                         | 783  | Ⓢ 1,2,8,48             |
| 30                 | T9   | 8.00-8.50        |  | 4 Pin | 20210             | FC8T9/830/EL             | 6          | 10000                      | 3000       | 80  | 1850                        | 1591 | Ⓢ 1,2,3,16,17,49       |
| 32                 | T9   | 11.50-12.0       |  | 4 Pin | 20233             | FC12T9/DWW/RP            | 6          | 15000                      | 3000       | 70  | 2100                        | 1806 | Ⓢ 1,2,8,48             |
|                    |      |                  |  |       | 20037             | FC12T9/WW/RS             | 12         | 15000                      | 3000       | 52  | 1950                        | 1697 | 1,2,8,48               |
|                    |      |                  |  |       | 20142             | FC12T9/CW/RS             | 12         | 15000                      | 4200       | 62  | 1925                        | 1675 | 1,2,8,48               |
|                    |      |                  |  |       | 20143             | FC12T9/CW/RS/6 PACK      | 6          | 15000                      | 4200       | 62  | 1925                        | 1675 | 1,2,8,48               |
|                    |      |                  |  |       | 20030             | FC12T9/D/RS              | 12         | 15000                      | 6500       | 76  | 1650                        | 1436 | Ⓢ 1,2,8,48             |
| 40                 | T9   | 15.5-16          |  | 4 Pin | 20057             | FC16T9/WW/RS             | 12         | 18000                      | 3000       | 52  | 2800                        | 2436 | 1,2,8,48               |
|                    |      |                  |  |       | 20132             | FC16T9/CW/RS             | 12         | 18000                      | 4200       | 62  | 2750                        | 2393 | 1,2,8,48               |
|                    |      |                  |  |       | 20072             | FC16T9/D/RS              | 12         | 18000                      | 6500       | 76  | 2350                        | 2045 | Ⓢ 1,2,8,48             |

## High Output (800mA) Rapid Start SUPERSAVER® Lamps

| Nominal<br>Wattage | Bulb | Nominal        |             | Base        | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|----------------|-------------|-------------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      | Length<br>(in) | MOL<br>(in) |             |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 55                 | T12  | 48             | 46          | Recessed DC | 25137             | F48T12D35/HO/SS          | 30         | 12000                      | 3500       | 70  | 3750                        | 3375 | Ⓢ 1,2,50,51            |
| 95                 | T12  | 96             | 93.91       | Recessed DC | 25008             | F96T12/D830/HO/SS        | 15         | 12000                      | 3000       | 80  | 8750                        | 8050 | Ⓢ 1,2,50,51            |
|                    |      |                |             |             | 25011             | F96T12/WW/HO/SS          | 15         | 12000                      | 3000       | 52  | 7700                        | 6237 | Ⓢ 1,2,50,51            |

**RAPID START LAMPS**  
**High Output (800mA) Rapid Start SUPERSAVER® Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 95              | T12  | 96                  | 93.91    | Recessed DC | 25024          | F96T12/D35/HO/SS      | 15      | 12000                | 3500    | 48  | 8350                             | 7515                          | ☉ CRI 1,2,50,51     |
|                 |      |                     |          |             | 25001          | F96T12/CW/HO/SS/ECO   | 15      | 12000                | 4050    | 62  | 8000                             | 6480                          | ☀ 1,2,6,50,51       |
|                 |      |                     |          |             | 25023          | F96T12/D41/HO/SS      | 15      | 12000                | 4100    | 70  | 8350                             | 7515                          | ☉ CRI 1,2,50,51     |
|                 |      |                     |          |             | 25025          | F96T12/LW/HO/SS       | 15      | 12000                | 4150    | 48  | 8000                             | 6480                          | ☉ 1,2,50,51         |
|                 |      |                     |          |             | 25010          | F96T12/CW/HO/SS       | 15      | 12000                | 4200    | 62  | 8000                             | 6480                          | ☉ 1,2,50,51         |

**High Output (800mA) Rapid Start Lamps**

| Nominal Wattage | Bulb        | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|-------------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 25              | T12         | 18                  | 15.91    | Recessed DC | 25303          | F18T12/DSGN50/HO      | 30      | 9000                 | 5000    | 90  | 850                              | 740                           | ☀ 1,2,8             |
| 35              | T12         | 24                  | 21.91    | Recessed DC | 25313          | F24T12/CW/HO          | 30      | 9000                 | 4200    | 62  | 1650                             | 1337                          | 1,2,8               |
|                 |             |                     |          |             | 25312          | F24T12/DSGN50/HO      | 30      | 9000                 | 5000    | 90  | 1200                             | 1044                          | ☀ 1,2,8             |
|                 |             |                     |          |             | 25314          | F24T12/D/HO           | 30      | 9000                 | 6500    | 76  | 1400                             | 1134                          | ☀ 1,2,8             |
| 42              | T12         | 30                  | 27.91    | Recessed DC | 25322          | F30T12/CW/HO          | 30      | 9000                 | 4200    | 62  | 2250                             | 1825                          | 1,2,8               |
| 45              | T12         | 36                  | 33.91    | Recessed DC | 25333          | F36T12/CW/HO          | 30      | 9000                 | 4200    | 62  | 2850                             | 2309                          | 1,2,8               |
|                 |             |                     |          |             | 25334          | F36T12/DSGN50/HO      | 30      | 9000                 | 5000    | 90  | 2100                             | 1701                          | ☀ 1,2,8             |
|                 |             |                     |          |             | 25332          | F36T12/D/HO           | 30      | 9000                 | 6500    | 76  | 2500                             | 2025                          | ☀ 1,2,8             |
| 55              | T12         | 42                  | 39.91    | Recessed DC | 25342          | F42T12/CW/HO          | 30      | 9000                 | 4200    | 62  | 3400                             | 2754                          | 1,2,8               |
|                 |             |                     |          |             | 25344          | F42T12/DSGN50/HO      | 30      | 9000                 | 5000    | 90  | 2550                             | 2066                          | ☀ 1,2,8             |
|                 |             |                     |          |             | 25343          | F42T12/D/HO           | 30      | 9000                 | 6500    | 76  | 3050                             | 2471                          | ☀ 1,2,8             |
| 60              | T12         | 48                  | 46       | Recessed DC | 25148          | F48T12/D830/HO        | 30      | 12000                | 3000    | 80  | 4400                             | 4048                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25147          | F48T12/WW/HO          | 30      | 12000                | 3000    | 52  | 4130                             | 3345                          | 1,2,8,51            |
|                 |             |                     |          |             | 25154          | F48T12/D35/HO         | 30      | 12000                | 3500    | 70  | 4250                             | 3825                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25144          | F48T12/CWX/HO         | 30      | 12000                | 4100    | 87  | 2800                             | 2268                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25136          | F48T12/D41/HO         | 30      | 12000                | 4100    | 70  | 4250                             | 3443                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25146          | F48T12/CW/HO          | 30      | 12000                | 4200    | 62  | 4050                             | 3281                          | 1,2,8,51            |
|                 |             |                     |          |             | 25122☀         | F48T12/CW/HO/ECO      | 30      | 12000                | 4200    | 62  | 4050                             | 3281                          | ☀ 1,2,6,8,51        |
|                 |             |                     |          |             | 25153          | F48T12/DSGN50/HO      | 30      | 12000                | 5000    | 90  | 3050                             | 2471                          | ☀ 1,2,8,51          |
| 25150           | F48T12/D/HO | 30                  | 12000    | 6500        | 76             | 3600                  | 2916    | ☀ 1,2,8,51           |         |     |                                  |                               |                     |
| 75              | T12         | 60                  | 57.91    | Recessed DC | 25127          | F60T12/WW/HO          | 30      | 12000                | 3000    | 52  | 5250                             | 4253                          | 1,2,8,51            |
|                 |             |                     |          |             | 25128          | F60T12/D35/HO         | 30      | 12000                | 3500    | 70  | 5600                             | 5040                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25126          | F60T12/CW/HO          | 30      | 12000                | 4200    | 62  | 5200                             | 4212                          | 1,2,8,51            |
|                 |             |                     |          |             | 25119          | F60T12/DSGN50/HO      | 30      | 12000                | 5000    | 90  | 3850                             | 3119                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25120          | F60T12/D/HO           | 30      | 12000                | 6500    | 76  | 4600                             | 3826                          | ☀ 1,2,8,51          |
| 80              | T12         | 64                  | 61.91    | Recessed DC | 25352          | F64T12/CW/HO          | 30      | 12000                | 4200    | 62  | 5750                             | 4658                          | 1,2,8,51            |
|                 |             |                     |          |             | 25355          | F64T12/DSGN50/HO      | 30      | 12000                | 5000    | 90  | 4200                             | 3402                          | ☀ 1,2,8,51          |
|                 |             |                     |          |             | 25353          | F64T12/D/HO           | 30      | 12000                | 6500    | 76  | 4900                             | 3969                          | ☀ 1,2,8,51          |
| 85              | T12         | 72                  | 69.91    | Recessed DC | 25097          | F72T12/D30/HO         | 15      | 12000                | 3000    | 70  | 6650                             | 5985                          | ☀ 1,2,8,51,52       |
|                 |             |                     |          |             | 25098          | F72T12/D830/HO        | 15      | 12000                | 3000    | 80  | 6750                             | 6210                          | ☀ 1,2,8,51,52       |

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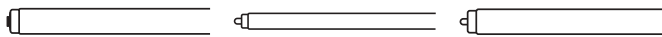
| Nominal Wattage | Bulb           | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|----------------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |                |                     |          |             |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 85              | T12            | 72                  | 69.91    | Recessed DC | 25177          | F72T12/WW/HO          | 15      | 12000                | 3000    | 52  | 6400                     | 5184 | 1,2,8,51,52         |
|                 |                |                     |          |             | 27249          | F72T12/D35/HO         | 15      | 12000                | 3500    | 70  | 6650                     | 5985 | 1,2,8,51,52         |
|                 |                |                     |          |             | 25281          | F72T12/D835/HO        | 15      | 12000                | 3500    | 80  | 6750                     | 6210 | 1,2,8,51,52         |
|                 |                |                     |          |             | 25182          | F72T12/N/HO           | 15      | 12000                | 3600    | 86  | 4400                     | 3564 | 1,2,8,51,52         |
|                 |                |                     |          |             | 25187          | F72T12/CWX/HO         | 15      | 12000                | 4100    | 87  | 4560                     | 3694 | 1,2,8,51,52         |
|                 |                |                     |          |             | 27245          | F72T12/D41/HO         | 15      | 12000                | 4100    | 70  | 6650                     | 5985 | 1,2,8,51,52         |
|                 |                |                     |          |             | 25176          | F72T12/CW/HO          | 15      | 12000                | 4200    | 62  | 6250                     | 5063 | 1,2,8,51,52         |
|                 |                |                     |          |             | 25171          | F72T12/CW/HO/ECO      | 15      | 12000                | 4200    | 62  | 6250                     | 5063 | 1,2,6,8,52          |
|                 |                |                     |          |             | 25190          | F72T12/DSGN50/HO      | 15      | 12000                | 5000    | 90  | 4600                     | 3726 | 1,2,8,51            |
|                 |                |                     |          |             | 25189          | F72T12/D/HO           | 15      | 12000                | 6500    | 76  | 5550                     | 4496 | 1,2,8,51,52         |
| 100             | T12            | 84                  | 81.91    | Recessed DC | 25383          | F84T12/D35/HO         | 15      | 12000                | 3500    | 70  | 7880                     | 7092 | 1,2,8,51            |
|                 |                |                     |          |             | 25384          | F84T12/CW/HO          | 15      | 12000                | 4200    | 62  | 7550                     | 6115 | 1,2,8,51            |
|                 |                |                     |          |             | 25386          | F84T12/DSGN50/HO      | 15      | 12000                | 5000    | 90  | 5600                     | 4536 | 1,2,8,51            |
|                 |                |                     |          |             | 25385          | F84T12/D/HO           | 15      | 12000                | 6500    | 76  | 6700                     | 5427 | 1,2,8,51            |
| 110             | T12            | 96                  | 93.91    | Recessed DC | 25149          | F96T12/D30/HO         | 15      | 12000                | 3000    | 70  | 9050                     | 8145 | 1,2,8,51            |
|                 |                |                     |          |             | 25152          | F96T12/D830/HO        | 15      | 12000                | 3000    | 80  | 9400                     | 8648 | 1,2,8,51            |
|                 |                |                     |          |             | 25165          | F96T12/D35/HO         | 15      | 12000                | 3500    | 70  | 9050                     | 8145 | 1,2,8,51            |
|                 |                |                     |          |             | 25166          | F96T12/D835/HO        | 15      | 12000                | 3500    | 80  | 9400                     | 8648 | 1,2,8,51            |
|                 |                |                     |          |             | 25162          | F96T12/N/HO           | 15      | 12000                | 3600    | 86  | 6050                     | 4900 | 1,2,8,51            |
|                 |                |                     |          |             | 25158          | F96T12/CWX/HO         | 15      | 12000                | 4100    | 87  | 6100                     | 5307 | 1,2,8,51            |
|                 |                |                     |          |             | 25184          | F96T12/D41/HO         | 15      | 12000                | 4100    | 70  | 9050                     | 8145 | 1,2,8,51            |
|                 |                |                     |          |             | 25114          | F96T12/D841/HO        | 15      | 12000                | 4100    | 80  | 9400                     | 8648 | 1,2,8,51            |
|                 |                |                     |          |             | 25129          | F96T12/CW/HO/CT/ECO   | 15      | 12000                | 4200    | 62  | 8600                     | 6966 | 1,2,6,8,51,53       |
|                 |                |                     |          |             | 25164          | F96T12/DSGN50/HO      | 15      | 12000                | 5000    | 90  | 6450                     | 5225 | 1,2,8,51            |
| 25185           | F96T12/D865/HO | 15                  | 12000    | 6500        | 80             | 8800                  | 7920    | 1,2,8,51             |         |     |                          |      |                     |

**High Output (800mA) Rapid Start Lamps for Cold Temperature Operation**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation    | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-------------|----------------|--------------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |             |                |                          |         |                      |         |     | Initial                  | Mean |                     |
| 110             | T12  | 96                  | 93.91    | Recessed DC | 25134          | F96T12/CW/HO/COLD TEMP   | 15      | 12000                | 4200    | 62  | 8600                     | 6966 | 1,2,8,51,53         |
|                 |      |                     |          |             | 25118          | F96T12/CW/HO/COLD/10/CVP | 10      | 12000                | 4200    | 62  | 8600                     | 6966 | 1,2,8,51,53         |
|                 |      |                     |          |             | 25129          | F96T12/CW/HO/CT/ECO      | 15      | 12000                | 4200    | 62  | 8600                     | 6966 | 1,2,6,8,51,53       |
|                 |      |                     |          |             | 25135          | F96T12/D/HO/COLD TEMP    | 15      | 12000                | 6500    | 76  | 7600                     | 6156 | 1,2,8,51,53         |



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T12 RDC

T8 Single Pin

T12 Single Pin

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**RAPID START LAMPS**

**Very High Output (1500mA) Rapid Start Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |       | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|-------|---------------------|
|                 |      |                     |          |             |                |                       |         |                      |         |     | Initial                  | Mean  |                     |
| 115             | T12  | 48                  | 46       | Recessed DC | 25248          | F48T12/CW/VHO         | 30      | 10000                | 4200    | 62  | 6600                     | 4620  | 1,2,8,54            |
|                 |      |                     |          |             | 25249          | F48T12/CW/VHO/LT      | 30      | 10000                | 4200    | 62  | 6750                     | 5250  | 1,2,8,54,55,56      |
|                 |      |                     |          |             | 21260          | F48T12/CW/VHO/PB/30   | 6       | 10000                | 4200    | 62  |                          |       | 1,2,8,57            |
|                 |      |                     |          |             | 25244          | F48T12/D/VHO          | 30      | 10000                | 6500    | 76  | 5600                     | 3920  | ☼ 1,2,8,54          |
| 135             | T12  | 60                  | 57.91    | Recessed DC | 25262          | F60T12/CW/VHO         | 30      | 10000                | 4200    | 62  | 8700                     | 6090  | 1,2,8,54            |
| 141             | T12  | 60                  | 57.91    | Recessed DC | 25263          | F60T12/CW/VHO/LT      | 30      | 10000                | 4200    | 62  | 8700                     | 6090  | 1,2,8,54,55,56      |
| 160             | T12  | 72                  | 69.91    | Recessed DC | 25272          | F72T12/CW/VHO         | 15      | 10000                | 4200    | 62  | 10600                    | 7420  | 1,2,8,54            |
|                 |      |                     |          |             | 25274          | F72T12/CW/VHO/LT      | 15      | 10000                | 4200    | 62  | 11000                    | 7700  | 1,2,8,54,55,56      |
|                 |      |                     |          |             | 25270          | F72T12/D/VHO          | 15      | 10000                | 6500    | 76  | 9400                     | 6580  | ☼ 1,2,8,54          |
| 195             | T12  | 96                  | 93.91    | Recessed DC | 25296          | F96T12/CW/VHO/SS      | 15      | 10000                | 4200    | 62  | 13000                    | 9100  | 1,2,8,54,58         |
| 215             | T12  | 96                  | 93.91    | Recessed DC | 25211          | F96T12/WWW/VHO        | 15      | 10000                | 3000    | 52  | 14000                    | 9800  | 1,2,8,54            |
|                 |      |                     |          |             | 25209          | F96T12/CW/VHO         | 15      | 10000                | 4200    | 62  | 14000                    | 9800  | 1,2,8,54            |
|                 |      |                     |          |             | 25292          | F96T12/CW/VHO/LT      | 15      | 10000                | 4200    | 62  | 15000                    | 10500 | 1,2,8,54,55,56      |
|                 |      |                     |          |             | 25210          | F96T12/D/VHO          | 15      | 10000                | 6500    | 76  | 11600                    | 8120  | ☼ 1,2,8,54          |

**INSTANT START LAMPS**

**Slimline Instant Start SUPERSAVER® Lamps**

| Nominal Wattage | Bulb              | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|-------------------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |                   |                     |          |            |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 32              | T12               | 48                  | 46.00    | Single Pin | 24829          | F48T12/D35/SS         | 30      | 9000                 | 3500    | 70  | 2575                     | 2369 | ☼ 1,2,59            |
|                 |                   |                     |          |            | 24825          | F48T12/D41/SS         | 30      | 9000                 | 4100    | 70  | 2575                     | 2369 | ☼ 1,2,59            |
|                 |                   |                     |          |            | 24823          | F48T12/CW/SS          | 30      | 9000                 | 4200    | 62  | 2450                     | 2200 | 1,2,59              |
| 60              | T12               | 96                  | 94       | Single Pin | 29825          | F96T12/D30/SS         | 15      | 12000                | 3000    | 70  | 5600                     | 5152 | ☼ ☼ 1,2,51,59       |
|                 |                   |                     |          |            | 29809          | F96T12/D30/SS/ECO     | 15      | 12000                | 3000    | 70  | 5600                     | 5152 | ☼ ☼ ☼ 1,2,6,51,59   |
|                 |                   |                     |          |            | 29823          | F96T12/D830/SS        | 15      | 12000                | 3000    | 80  | 5800                     | 5452 | ☼ ☼ 1,2,51,59       |
|                 |                   |                     |          |            | 29854          | F96T12/D830/SS/ECO    | 15      | 12000                | 3000    | 80  | 5800                     | 5452 | ☼ ☼ ☼ 1,2,6,51,59   |
|                 |                   |                     |          |            | 29795          | F96T12/WWW/SS/ECO     | 15      | 12000                | 3000    | 52  | 5500                     | 4840 | ☼ ☼ 1,2,6,51,59     |
|                 |                   |                     |          |            | 29819          | F96T12/D35/SS         | 15      | 12000                | 3500    | 70  | 5600                     | 5152 | ☼ ☼ 1,2,51,59       |
|                 |                   |                     |          |            | 29808          | F96T12/D35/SS/ECO     | 15      | 12000                | 3500    | 70  | 5600                     | 5152 | ☼ ☼ ☼ 1,2,6,51,59   |
|                 |                   |                     |          |            | 29811          | F96T12/D835/SS        | 15      | 12000                | 3500    | 80  | 5800                     | 5452 | ☼ ☼ 1,2,51,59       |
|                 |                   |                     |          |            | 29859          | F96T12/D835/SS/ECO    | 15      | 12000                | 3500    | 80  | 5800                     | 5452 | ☼ ☼ ☼ 1,2,6,51,59   |
|                 |                   |                     |          |            | 29814          | F96T12/CWX/SS         | 15      | 12000                | 4100    | 87  | 3850                     | 3388 | ☼ 1,2,51,59         |
| 29853           | F96T12/D41/SS/ECO | 15                  | 12000    | 4100       | 70             | 5600                  | 5152    | ☼ ☼ ☼ 1,2,6,51,59    |         |     |                          |      |                     |
| 29812           | F96T12/D841/SS    | 15                  | 12000    | 4100       | 80             | 5800                  | 5452    | ☼ ☼ 1,2,51,59        |         |     |                          |      |                     |

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T12 Single Pin

T6 Single Pin

T8 Single Pin

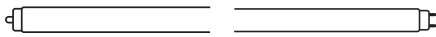
**INSTANT START LAMPS**

**Slimline Instant Start SUPERSAVER® Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 60              | T12  | 96                  | 94       | Single Pin | 29860          | F96T12/D841/SS/ECO    | 15      | 12000                | 4100    | 80  | 5800                             | 5452                          | Ⓢ 1,2,6,51,59       |
|                 |      |                     |          |            | 29820          | F96T12/LW/SS          | 15      | 12000                | 4150    | 48  | 5600                             | 4928                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29815          | F96T12/CW/SS          | 15      | 12000                | 4200    | 62  | 5300                             | 4664                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29805          | F96T12/CW/SS/CVP      | 10      | 12000                | 4200    | 62  | 5300                             | 4664                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29505          | F96T12/CW/SS/ECO      | 15      | 12000                | 4200    | 62  | 5300                             | 4664                          | Ⓢ 1,2,6,51,59       |
|                 |      |                     |          |            | 29816          | F96T12/CW/SS/UPC      | 15      | 12000                | 4200    | 62  | 5300                             | 4664                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29851          | F96T12/D865/SS        | 15      | 12000                | 6500    | 80  | 5300                             | 4770                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29828          | F96T12/DX/SS          | 15      | 12000                | 6500    | 88  | 3860                             | 3397                          | Ⓢ 1,2,51,59         |
|                 |      |                     |          |            | 29868          | F96T12/DX/SS/ECO      | 15      | 12000                | 6500    | 88  | 3860                             | 3397                          | Ⓢ 1,2,6,51,59       |

**Slimline Instant Start Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens Initial @25°C/77°F | Approx Lumens Mean @25°C/77°F | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|----------------------------------|-------------------------------|---------------------|
| 21              | T12  | 24                  | 22.0     | Single Pin | 22403          | F24T12/CW             | 30      | 7500                 | 4200    | 62  | 1150                             | 1000                          | 1,2,8               |
| 25              | T6   | 42                  | 40       | Single Pin | 24270          | F42T6/MW              | 24      | 7500                 | 3032    | 52  | 1825                             | 1606                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 24269          | F42T6/D35             | 24      | 7500                 | 3500    | 70  | 1830                             | 1684                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 24266          | F42T6/CW              | 24      | 7500                 | 4200    | 62  | 1750                             | 1540                          | Ⓢ 1,2,8             |
| 30              | T12  | 36                  | 34       | Single Pin | 23618          | F36T12/CW             | 30      | 7500                 | 4200    | 62  | 1970                             | 1734                          | 1,2,8               |
| 38              | T6   | 64                  | 62       | Single Pin | 26470          | F64T6/MW              | 24      | 7500                 | 3000    | 52  | 2900                             | 2552                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 26469          | F64T6/D35             | 24      | 7500                 | 3500    | 70  | 2930                             | 2696                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 26466          | F64T6/CW              | 24      | 7500                 | 4200    | 62  | 2800                             | 2464                          | Ⓢ 1,2,8             |
|                 | T8   | 72                  | 70       | Single Pin | 27270          | F72T8/MW              | 24      | 7500                 | 3000    | 52  | 3100                             | 2728                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 27266          | F72T8/CW              | 24      | 7500                 | 4200    | 62  | 3050                             | 2684                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 27200          | F72T8/D               | 24      | 7500                 | 6500    | 76  | 2600                             | 2288                          | Ⓢ 1,2,8             |
| 39              | T12  | 48                  | 46       | Single Pin | 24827          | F48T12/CW/ECO         | 30      | 9000                 | 4200    | 62  | 2820                             | 2482                          | Ⓢ 1,2,6,8           |
|                 |      |                     |          |            | 24836          | F48T12D/ECO           | 30      | 9000                 | 6500    | 76  | 2450                             | 2156                          | Ⓢ 1,2,6,8           |
|                 |      |                     |          |            | 24832          | F48T12/D35            | 30      | 9000                 | 3500    | 70  | 3000                             | 2760                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 24830          | F48T12/CW             | 30      | 9000                 | 4200    | 62  | 2820                             | 2482                          | 1,2,8               |
|                 |      |                     |          |            | 24834          | F48T12/D              | 30      | 9000                 | 6500    | 76  | 2450                             | 2156                          | Ⓢ 1,2,8             |
| 50              | T12  | 60                  | 58       | Single Pin | 26018          | F60T12/D35            | 30      | 12000                | 3500    | 70  | 3850                             | 3542                          | Ⓢ 1,2,8,51          |
|                 |      |                     |          |            | 26001          | F60T12/CW             | 30      | 12000                | 4200    | 62  | 3700                             | 3256                          | 1,2,8,51            |
|                 |      |                     |          |            | 26002          | F60T12/D              | 30      | 12000                | 6500    | 76  | 3000                             | 2640                          | Ⓢ 1,2,8,51          |
| 51              | T8   | 96                  | 94       | Single Pin | 29666          | F96T8/CW              | 24      | 7500                 | 4200    | 62  | 4000                             | 3520                          | Ⓢ 1,2,8             |
|                 |      |                     |          |            | 29650          | F96T8/D               | 24      | 7500                 | 6500    | 76  | 3550                             | 3124                          | Ⓢ 1,2,8             |
| 52              | T12  | 64                  | 62       | Single Pin | 26403          | F64T12/CW             | 30      | 12000                | 4200    | 62  | 3900                             | 3432                          | 1,2,8,51            |
|                 |      |                     |          |            | 26404          | F64T12/D              | 30      | 12000                | 6500    | 76  | 3300                             | 2904                          | Ⓢ 1,2,8,51          |
| 55              | T12  | 72                  | 70       | Single Pin | 27255          | F72T12/D830           | 15      | 12000                | 3000    | 80  | 4800                             | 4512                          | Ⓢ 1,2,8,51          |



T12 Single Pin

T12 Med Bipin

## INSTANT START LAMPS

### Slimline Instant Start Lamps

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 55              | T12  | 72                  | 70       | Single Pin | 27250          | F72T12/D35            | 15      | 12000                | 3500    | 70  | 4700                     | 4324 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 27243          | F72T12/D41            | 15      | 12000                | 4100    | 70  | 4700                     | 4324 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 27256          | F72T12/CW             | 15      | 12000                | 4200    | 62  | 4500                     | 3960 | 1,2,8,51            |
|                 |      |                     |          |            | 27259          | F72T12/D              | 15      | 12000                | 6500    | 76  | 3800                     | 3432 | ☉ 1,2,8,51          |
| 70              | T12  | 84                  | 82       | Single Pin | 28417          | F84T12/CW             | 15      | 12000                | 4200    | 62  | 5300                     | 4664 | 1,2,8,51            |
| 75              | T12  | 96                  | 94       | Single Pin | 29818          | F96T12/D30            | 15      | 12000                | 3000    | 70  | 6420                     | 5906 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29796          | F96T12/D30/ECO        | 15      | 12000                | 3000    | 70  | 6420                     | 5906 | ☉ ☉ ☉ 1,2,6,51      |
|                 |      |                     |          |            | 29827          | F96T12/D830           | 15      | 12000                | 3000    | 80  | 6550                     | 6157 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29856          | F96T12/D830/ECO       | 15      | 12000                | 3000    | 80  | 6550                     | 6157 | ☉ ☉ ☉ 1,2,6,8,51    |
|                 |      |                     |          |            | 29685          | F96T12/D35            | 15      | 12000                | 3500    | 70  | 6420                     | 5906 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29686          | F96T12/D35/ECO        | 15      | 12000                | 3500    | 70  | 6420                     | 5906 | ☉ ☉ ☉ 1,2,6,8,51    |
|                 |      |                     |          |            | 29843          | F96T12/D835           | 15      | 12000                | 3500    | 80  | 6550                     | 6157 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29838          | F96T12/D835/ECO       | 15      | 12000                | 3500    | 80  | 6550                     | 6157 | ☉ ☉ ☉ 1,2,6,8,51    |
|                 |      |                     |          |            | 29478          | F96T12/CWX            | 15      | 12000                | 4100    | 87  | 4400                     | 3872 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 29858          | F96T12/CWX/CVP        | 10      | 12000                | 4100    | 87  | 4400                     | 3872 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 29489          | F96T12/CWX/UPC        | 15      | 12000                | 4100    | 87  | 4400                     | 3872 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 29797          | F96T12/D41/CVP        | 10      | 12000                | 4100    | 70  | 6420                     | 5906 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29798          | F96T12/D41/ECO        | 15      | 12000                | 4100    | 70  | 6420                     | 5906 | ☉ ☉ ☉ 1,2,6,8,51    |
|                 |      |                     |          |            | 29852          | F96T12/D41/UPC        | 15      | 12000                | 4100    | 70  | 6420                     | 5906 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29857          | F96T12/D841           | 15      | 12000                | 4100    | 80  | 6550                     | 6157 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29850          | F96T12/D841/ECO       | 15      | 12000                | 4100    | 80  | 6550                     | 6157 | ☉ ☉ ☉ 1,2,6,8,51    |
|                 |      |                     |          |            | 29833          | F96T12/DSGN50         | 15      | 12000                | 5000    | 90  | 4400                     | 3872 | ☉ 1,2,8,51          |
|                 |      |                     |          |            | 29849          | F96T12/D865           | 15      | 12000                | 6500    | 80  | 6000                     | 5520 | ☉ ☉ 1,2,8,51        |
|                 |      |                     |          |            | 29500          | F96T12/DX             | 15      | 12000                | 6500    | 88  | 4360                     | 3837 | ☉ 1,2,8,51          |

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### Instant Start Bipin Lamp

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 40              | T12  | 48                  | 47.78    | Med Bipin | 24571          | F40T12/CW/IS          | 30      | 9000                 | 4200    | 62  | 3000                     | 2640 | 1,2,8,60            |

**PREHEAT LAMPS**  
**Miniature T5 Preheat Lamps (Starter Required)**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in)   | Base       | Product Number  | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens |      | Symbols & Footnotes |
|-----------------|------|---------------------|------------|------------|-----------------|-----------------------|---------|----------------------|---------|-----|---------------|------|---------------------|
|                 |      |                     |            |            |                 |                       |         |                      |         |     | Initial       | Mean |                     |
| 4               | T5   | 6                   | 5.91       | Mini Bipin | 20416           | F4T5/CW               | 24      | 6000                 | 4200    | 62  | 135           | 117  | 1,2                 |
|                 |      |                     |            |            | 20415           | F4T5CW/BL/1/6         | 6       | 6000                 | 4200    | 62  | 135           | 117  | 1,2                 |
|                 |      |                     |            |            | 20420           | F4T5/D                | 24      | 6000                 | 6500    | 76  | 115           | 100  | ☒ 1,2               |
| 6               | T5   | 9                   | 8.91       | Mini Bipin | 20617           | F6T5/WW               | 24      | 7500                 | 3000    | 52  | 275           | 239  | 1,2                 |
|                 |      |                     |            |            | 20616           | F6T5/CW               | 24      | 7500                 | 4200    | 62  | 270           | 235  | 1,2                 |
|                 |      |                     |            |            | 20619           | F6T5CW/BL/1/6         | 6       | 7500                 | 4200    | 62  | 270           | 235  | 1,2                 |
|                 |      |                     |            |            | 20620           | F6T5/D                | 24      | 7500                 | 6500    | 76  | 260           | 226  | ☒ 1,2               |
| 8               | T5   | 12                  | 11.91      | Mini Bipin | 20817           | F8T5/WW               | 24      | 7500                 | 3000    | 52  | 400           | 348  | 1,2                 |
|                 |      |                     |            |            | 20819           | F8T5/WW/BL/1/6        | 6       | 7500                 | 3000    | 52  | 400           | 348  | 1,2                 |
|                 |      |                     |            |            | 20821           | F8T5/W                | 24      | 7500                 | 3450    | 57  | 400           | 348  | 1,2                 |
|                 |      |                     |            |            | 20837           | F8T5/CWX              | 24      | 7500                 | 4100    | 87  | 270           | 235  | ☒ 1,2               |
|                 |      |                     |            |            | 20816           | F8T5/CW               | 24      | 7500                 | 4200    | 62  | 390           | 339  | 1,2                 |
|                 |      |                     |            |            | 20834           | F8T5CW/BL/1/6         | 6       | 7500                 | 4200    | 62  | 390           | 339  | 1,2                 |
|                 |      |                     |            |            | 20824           | F8T5/DSGN50           | 24      | 7500                 | 5000    | 90  | 280           | 244  | ☒ 1,2               |
|                 |      |                     |            |            | 20820           | F8T5/D                | 24      | 7500                 | 6500    | 76  | 350           | 305  | ☒ 1,2               |
| 13              | T5   | 21                  | 20.4       | Mini Bipin | 21301           | L13W/25               | 25      | 7500                 | 4000    | 75  | 700           | 630  | ☒ 1,2               |
|                 |      |                     |            | Mini Bipin | 21317           | F13T5/WW              | 24      | 7500                 | 3000    | 52  | 880           | 766  | 1,2                 |
|                 |      | 20.91               | Mini Bipin | 21332      | F13T5/WW/BL/1/6 | 6                     | 7500    | 3000                 | 52      | 880 | 766           | 1,2  |                     |
|                 |      |                     |            | 21316      | F13T5/CW        | 24                    | 7500    | 4200                 | 62      | 860 | 748           | 1,2  |                     |
|                 |      |                     |            | 21315      | F13T5CW/BL/1/6  | 6                     | 7500    | 4200                 | 62      | 860 | 748           | 1,2  |                     |

**Standard T8 and T12 Preheat Lamps (Starter Required)**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|---------------|------|---------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial       | Mean |                     |
| 13              | T8   | 12                  | 11.71    | Med Bipin | 21766          | F13T8/CW              | 24      | 7500                 | 4200    | 62  | 530           | 461  | 1,2                 |
| 14              | T8   | 15                  | 14.78    | Med Bipin | 21486          | F14T8/CW              | 24      | 7500                 | 4200    | 62  | 685           | 644  | 1,2                 |
|                 |      |                     |          |           | 21488          | F14T8/D               | 24      | 7500                 | 6500    | 76  | 575           | 561  | ☒ 1,2               |
|                 | T12  | 15                  | 14.78    | Med Bipin | 21451          | F14T12/DWW/RP         | 6       | 9000                 | 3000    | 70  | 720           | 648  | ☒ 1,2               |
|                 |      |                     |          |           | 21435          | F14T12/WW             | 30      | 9000                 | 3000    | 52  | 660           | 574  | 1,2                 |
|                 |      |                     |          |           | 21536          | F14T12/DCW/1/6/RP     | 6       | 9000                 | 4100    | 70  | 720           | 648  | 1,2                 |
|                 |      |                     |          |           | 21409          | F14T12/CW             | 30      | 9000                 | 4200    | 62  | 650           | 566  | 1,2                 |
|                 |      |                     |          |           | 21410          | F14T12/CW/6/RP        | 6       | 9000                 | 4200    | 62  | 650           | 566  | 1,2                 |
|                 |      |                     |          |           | 21411          | F14T12/D              | 30      | 9000                 | 6500    | 76  | 590           | 513  | ☒ 1,2               |
| 15              | T8   | 18                  | 17.78    | Med Bipin | 21610          | F15T8/D830            | 24      | 7500                 | 3000    | 82  | 920           | 846  | ☒ 1,2               |
|                 |      |                     |          |           | 21701          | F15T8/WW              | 24      | 7500                 | 3000    | 52  | 845           | 735  | 1,2                 |
|                 |      |                     |          |           | 21765          | F15T8/WW/RP           | 6       | 7500                 | 3000    | 52  | 845           | 735  | 1,2                 |
|                 |      |                     |          |           | 21609          | F15T8/D35             | 24      | 7500                 | 3500    | 70  | 940           | 846  | ☒ 1,2               |
|                 |      |                     |          |           | 21682          | F15T8/N               | 24      | 7500                 | 3600    | 86  | 560           | 487  | ☒ 1,2               |
|                 |      |                     |          |           | 21627          | F15T8/CWX             | 24      | 7500                 | 4100    | 87  | 600           | 522  | ☒ 1,2               |
|                 |      |                     |          |           | 21603          | F15T8/DCW/RP          | 6       | 7500                 | 4100    | 70  | 900           | 810  | ☒ 1,2               |

T8 Med Bipin

T12 Med Bipin

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**PREHEAT LAMPS**

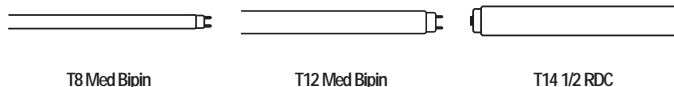
**Standard T8 and T12 Preheat Lamps (Starter Required)**

| Nominal Wattage | Bulb         | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |     |
|-----------------|--------------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|-----|
|                 |              |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                     |     |
| 15              | T8           | 18                  | 17.78    | Med Bipin | 21616          | F15T8/CW              | 24      | 7500                 | 4200    | 62  | 825                      | 718  | 1,2                 |     |
|                 |              |                     |          |           | 21619          | F15T8/CW/6PK          | 6       | 7500                 | 4200    | 62  | 825                      | 718  | 1,2                 |     |
|                 |              |                     |          |           | 21642          | F15T8/DSGN50          | 24      | 7500                 | 5000    | 90  | 600                      | 539  | ☐ 1,2               |     |
|                 |              |                     |          |           | 21600          | F15T8/D               | 24      | 7500                 | 6500    | 76  | 700                      | 653  | ☐ 1,2               |     |
|                 | T12          | 18                  | 17.78    | Med Bipin | 21551          | F15T12/DWWW/RP        | 6       | 9000                 | 3000    | 70  | 770                      | 693  | ☐ 1,2               |     |
|                 |              |                     |          |           | 21542          | F15T12/WWW            | 30      | 9000                 | 3000    | 52  | 770                      | 670  | 1,2                 |     |
|                 |              |                     |          |           | 21544          | F15T12/WWW/RP         | 6       | 9000                 | 3000    | 52  | 770                      | 670  | 1,2                 |     |
|                 |              |                     |          |           | 21535          | F15T12/DCW/RP         | 6       | 9000                 | 4100    | 76  | 770                      | 693  | ☐ 1,2               |     |
|                 |              |                     |          |           | 21532          | F15T12/CW             | 30      | 9000                 | 4200    | 62  | 750                      | 653  | 1,2                 |     |
|                 |              |                     |          |           | 21513          | F15T12/CW 6PK         | 6       | 9000                 | 4200    | 62  | 750                      | 653  | 1,2                 |     |
| 21534           | F15T12/D     | 30                  | 9000     | 6500      | 76             | 660                   | 574     | ☐ 1,2                |         |     |                          |      |                     |     |
| 18              | T8           | 24                  | 23.78    | Med Bipin | 23014          | F18T8CW/K24           | 24      | 7500                 | 4200    | 62  | 1190                     | 1035 | 1,2                 |     |
|                 |              |                     |          |           | 23012          | F18T8CW/K24/1/12/UPC  | 12      | 7500                 | 4200    | 62  | 1190                     | 1035 | 1,2                 |     |
|                 |              | 26                  | 25.78    | Med Bipin | 23025          | F18T8CW/K26PLT        | 3168    | 7500                 | 4200    | 62  | 1280                     | 1079 | 1,2                 |     |
|                 |              |                     |          |           | 23027          | F18T8CW/K26           | 24      | 7500                 | 4200    | 62  | 1280                     | 1079 | 1,2                 |     |
|                 |              |                     |          |           | 21728          | F18T8/D/K26           | 24      | 7500                 | 6500    | 76  | 1100                     | 957  | ☐ 1,2               |     |
|                 |              | 28                  | 27.78    | Med Bipin | 23028          | F18T8CW/K28           | 24      | 7500                 | 4200    | 62  | 1360                     | 1131 | 1,2                 |     |
|                 |              | 30                  | 29.78    | Med Bipin | 23030          | F18T8CW/K30           | 24      | 7500                 | 4200    | 62  | 1400                     | 1200 | 1,2                 |     |
| 20              | T12          | 21                  | 20.78    | Med Bipin | 22080          | F20T12/CW/21          | 30      | 7500                 | 4200    | 62  | 1020                     | 887  | 1,2                 |     |
|                 |              |                     |          |           | 22085          | F20T12/D/22           | 30      | 7500                 | 6500    | 76  | 975                      | 848  | ☐ 1,2               |     |
|                 |              | 24                  | 23.78    | Med Bipin | 22997          | F20T12/G              | 10      | 9000                 |         |     |                          |      |                     | 1,2 |
|                 |              |                     |          |           | 22075          | F20T12/D830           | 30      | 9000                 | 3000    | 80  | 1350                     | 1242 | ☐ 1,2               |     |
|                 |              |                     |          |           | 22252          | F20T12/DWWW/RP        | 6       | 9000                 | 3000    | 70  | 1300                     | 1170 | ☐ 1,2               |     |
|                 |              |                     |          |           | 22131          | F20T12/WWW            | 30      | 9000                 | 3000    | 52  | 1250                     | 1088 | 1,2                 |     |
|                 |              |                     |          |           | 22134          | F20T12/WWW/RP         | 6       | 9000                 | 3000    | 52  | 1250                     | 1088 | 1,2                 |     |
|                 |              |                     |          |           | 22251          | F20T12/D35            | 30      | 9000                 | 3500    | 70  | 1300                     | 1170 | ☐ 1,2               |     |
|                 |              |                     |          |           | 22082          | F20T12/CWX            | 30      | 9000                 | 4100    | 87  | 890                      | 774  | ☐ 1,2               |     |
|                 |              |                     |          |           | 22255          | F20T12/D41            | 30      | 9000                 | 4100    | 70  | 1300                     | 1170 | ☐ 1,2               |     |
|                 |              |                     |          |           | 22256          | F20T12/DCW/RP         | 6       | 9000                 | 4100    | 76  | 1300                     | 1170 | ☐ 1,2               |     |
|                 |              |                     |          |           | 22078          | F20T12/CW             | 30      | 9000                 | 4200    | 62  | 1200                     | 1044 | 1,2                 |     |
|                 |              |                     |          |           | 22015          | F20T12/CW/RP          | 6       | 9000                 | 4200    | 62  | 1200                     | 1044 | 1,2                 |     |
|                 |              |                     |          |           | 22073          | F20T12/CW/UPC         | 30      | 9000                 | 4200    | 62  | 1200                     | 1044 | 1,2                 |     |
|                 |              |                     |          |           | 22119          | F20T12/DSGN50         | 30      | 9000                 | 5000    | 90  | 880                      | 766  | ☐ 1,2               |     |
| 22083           | F20T12/D     | 30                  | 9000     | 6500      | 76             | 1075                  | 935     | ☐ 1,2                |         |     |                          |      |                     |     |
| 22087           | F20T12/D/UPC | 30                  | 9000     | 6500      | 76             | 1075                  | 935     | ☐ 1,2                |         |     |                          |      |                     |     |
| 25              | T12          | 28                  | 27.78    | Med Bipin | 22527          | F25T12/CW/28          | 30      | 7500                 | 4200    | 62  | 1670                     | 1453 | 1,2                 |     |
|                 |              |                     |          |           | 22333          | F25T12/WWW/30         | 30      | 7500                 | 3000    | 52  | 1750                     | 1523 | 1,2                 |     |
|                 |              | 30                  | 29.78    | Med Bipin | 22528          | F25T12/CW/30          | 30      | 7500                 | 4200    | 62  | 1730                     | 1505 | 1,2                 |     |
|                 |              |                     |          |           | 22529          | F25T12/CW/33          | 30      | 7500                 | 4200    | 62  | 1850                     | 1610 | 1,2                 |     |
|                 |              |                     |          |           | 22531          | F25T12/D/33           | 30      | 7500                 | 6500    | 76  | 1600                     | 1392 | ☐ 1,2               |     |

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T8 Med Bipin

T12 Med Bipin

T14 1/2 RDC

**PREHEAT LAMPS**

**Standard T8 and T12 Preheat Lamps (Starter Required)**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |              | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|--------------|---------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean         |                     |
| 30              | T8   | 36                  | 35.78    | Med Bipin | 23140          | F30T8/DWWW/RP         | 6       | 7500                 | 3000    | 70  | 2360                     | 2124         | ☑ 1,2               |
|                 |      |                     |          |           | 23701          | F30T8/WWW             | 24      | 7500                 | 3000    | 52  | 2150                     | 1871         | 1,2                 |
|                 |      |                     |          |           | 23182          | F30T8/N               | 24      | 7500                 | 3600    | 86  | 1500                     | 1305         | ☑ 1,2               |
|                 |      |                     |          |           | 23127          | F30T8/CWX             | 24      | 7500                 | 4100    | 87  | 1550                     | 1349         | ☑ 1,2               |
|                 |      |                     |          |           | 23121          | F30T8/CW              | 6       | 7500                 | 4200    | 62  | 2180                     | 1897         | 1,2                 |
|                 |      |                     |          |           | 23116          | F30T8/CW              | 24      | 7500                 | 4200    | 62  | 2180                     | 1897         | 1,2                 |
|                 |      |                     |          |           | 23100          | F30T8/D               | 24      | 7500                 | 6500    | 76  | 1850                     | 1653         | ☑ 1,2               |
| 40              | T12  | 48                  | 47.2     | Med Bipin | 24409          | L40W/30-1             | 25      |                      | 3000    | 50  |                          | 1,2,43,44,47 |                     |
| 65              | T8   |                     |          | Med Bipin | 24736          | L 65W/10 S            | 25      |                      | 6000    | 75  |                          | ☑ 1,2,8      |                     |
| 70              | T8   | 70                  | 70       | Med Bipin | 20804          | L70W / 21 - 840       | 25      | 15000                | 4000    | 80  | 6550                     | 6026         | ☑ 1,2,8             |

**SPECIALTY FLUORESCENT LAMPS**

**SAFELINE® Shatter Resistant Coated Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation                      | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes  |
|-----------------|------|---------------------|----------|-----------|----------------|--|---------|----------------------|---------|-----|--------------------------|------|----------------------|
|                 |      |                     |          |           |                |  |         |                      |         |     | Initial                  | Mean |                      |
| 32              | T8   | 48                  | 47.78    | Med Bipin | 21678          | F032/735/SL                                | 30      | 20000                | 3500    | 75  | 2745                     | 2470 | ☑ ☑ 1,2,20, 21,25,26 |
| 34              | T12  | 48                  | 47.78    | Med Bipin | 24396          | F34CW/SS/SL<br><i>formerly F40CW/SS/SL</i> | 30      | 20000                | 4200    | 62  | 2600                     | 2235 | ☑ 1,25,26,43,44, 45  |

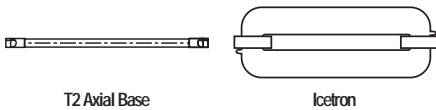
**Weather-Shielded Jacketed Lamps**

| Nominal Wattage | Bulb  | Nominal Length (in) | MOL (in) | Base        | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |       | Symbols & Footnotes |
|-----------------|-------|---------------------|----------|-------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|-------|---------------------|
|                 |       |                     |          |             |                |                       |         |                      |         |     | Initial                  | Mean  |                     |
| 70              | T14.5 | 60                  | 57.91    | Recessed DC | 21124          | FJ60T12/CW/HO         | 8       | 12000                | 4200    | 62  | 5300                     | 4293  | 1,2,8,51,61         |
| 110             | T12   | 96                  | 93.1     | Recessed DC | 21356          | FJ96T12/CW/HO         | 8       | 12000                | 4200    | 62  | 8500                     | 6885  | 1,2,8,51,61         |
| 128             | T12   | 48                  | 45.91    | Recessed DC | 21330          | FJ48T12/CW/HO/LT      | 12      | 10000                | 4200    | 62  | 6750                     | 4725  | 1,2,8,54,56,61      |
| 165             | T12   | 72                  | 69.91    | Recessed DC | 21335          | FJ72T12/CW/HO/LT      | 8       | 10000                | 4200    | 62  | 10700                    | 7490  | 1,2,8,54,56,61      |
| 215             | T12   | 96                  | 93.1     | Recessed DC | 21340          | FJ96T12/CW/HO/LT      | 8       | 10000                | 4200    | 62  | 15300                    | 10710 | 1,2,8,54,56,61      |

**GRO-LUX® Lamps for Plant Growth & Aquariums**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |                      | Symbols & Footnotes  |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|----------------------|----------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean                 |                      |
| 15              | T8   | 18                  | 17.78    | Med Bipin | 21657          | F15T8/GRO/AQ/RP       | 6       | 7500                 |         | 66  | 325                      |                      | ☑ 1,2,8,62           |
| 20              | T12  | 24                  | 23.78    | Med Bipin | 22029          | F20T12/GRO/AQ/RP      | 6       | 9000                 |         |     | 480                      |                      | ☑ 1,2,8,62           |
|                 |      |                     |          |           | 22013          | F20T12/GRO/AQ/WS/RP   | 6       | 9000                 | 3400    | 89  | 750                      | ☑ 1,2,8,62           |                      |
| 30              | T8   | 36                  | 35.78    | Med Bipin | 23160          | F30T8/GRO/AQ/RP       | 6       | 7500                 |         | 66  | 800                      |                      | ☑ 1,2,8,62           |
| 40              | T12  | 48                  | 47.78    | Med Bipin | 24660          | F40/GRO/AQ/RP         | 6       | 20000                |         |     | 1200                     |                      | ☑ 1,2,8,43,44, 46,47 |
|                 |      |                     |          |           | 24671          | F40/GRO/AQ/WS/RP      | 6       | 20000                | 3400    | 89  | 1700                     | ☑ 1,2,8,43,44, 46,47 |                      |

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**SPECIALTY FLUORESCENT LAMPS**

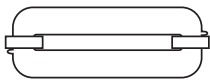
**Miniature T2 Lamps**

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base  | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|-------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |       |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 6               | T2   | 8.6                 | 8.6      | Axial | 26204          | FM6/830               | 20      | 10000                | 3000    | 80  | 330                      | 297  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26233          | FM6/835               | 20      | 10000                | 3500    | 80  | 330                      | 297  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26213          | FM6/841               | 20      | 10000                | 4100    | 80  | 330                      | 297  | 1,2,8,9,11,63,64    |
| 8               | T2   | 12.6                | 12.6     | Axial | 26237          | FM8/830               | 20      | 10000                | 3000    | 80  | 540                      | 486  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26234          | FM8/835               | 20      | 10000                | 3500    | 80  | 540                      | 486  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26232          | FM8/841               | 20      | 10000                | 4100    | 80  | 540                      | 486  | 1,2,8,9,11,63,64    |
| 11              | T2   | 16.6                | 16.6     | Axial | 26239          | FM11/830              | 20      | 10000                | 3000    | 80  | 750                      | 675  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26235          | FM11/835              | 20      | 10000                | 3000    | 80  | 750                      | 675  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26231          | FM11/841              | 20      | 10000                | 4100    | 80  | 750                      | 675  | 1,2,8,9,11,63,64    |
| 13              | T2   | 20.6                | 20.6     | Axial | 26253          | FM13/830              | 20      | 10000                | 3000    | 80  | 930                      | 837  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26291          | FM13/835              | 20      | 8000                 | 3500    | 80  | 960                      | 837  | 1,2,8,9,11,63,64    |
|                 |      |                     |          |       | 26230          | FM13/841              | 20      | 10000                | 4100    | 80  | 930                      | 837  | 1,2,8,9,11,63,64    |

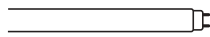
**ICETRON® Inductively Coupled, Electrodeless Lamps**

The ICETRON® System is a unique adaptation of the inductively coupled electrodeless technology delivering high luminous efficacy, extremely long system life of 100,000 hours in a shape uniquely suited for a variety of lighting applications. The ICETRON lamps and ballasts are designed as dedicated systems and are not interchangeable with other lamps and ballasts. Please consult OSRAM SYLVANIA for fixture design and application assistance. An ICETRON Design Guide is available on request.

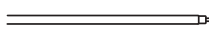
| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base          | Product Number     | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes   |
|-----------------|------|---------------------|----------|---------------|--------------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|-----------------------|
|                 |      |                     |          |               |                    |                       |         |                      |         |     | Initial                  | Mean |                       |
| 70              | T17  | 12.32               | 12.32    | Mounting Bkts | 26081 <sup>⚡</sup> | ICE70/835             | 1       | 100000               | 3500    | 80  | 6200                     | 4588 | 1,2,11,65,66,67,68,69 |
|                 |      |                     |          |               | 26087              | ICE70/835/2P/ECO      | 1       | 100000               | 3500    | 80  | 6200                     | 4588 | 1,2,6,11,66,67,68,69  |
|                 |      |                     |          |               | 26082 <sup>⚡</sup> | ICE70/841             | 1       | 100000               | 4100    | 80  | 6200                     | 4588 | 1,2,11,65,66,67,68,69 |
|                 |      |                     |          |               | 26088              | ICE70/841/2P/ECO      | 1       | 100000               | 4100    | 80  | 6200                     | 4588 | 1,2,6,11,66,67,68,69  |
|                 |      |                     |          |               | 26089              | ICE70/850/2P/ECO      | 1       | 100000               | 5000    | 80  | 5950                     | 4588 | 1,2,6,11,66,67,68,69  |
| 100             | T17  | 12.32               | 12.32    | Mounting Bkts | 26100 <sup>⚡</sup> | ICE100/835            | 1       | 100000               | 3500    | 80  | 8000                     | 5920 | 1,2,11,65,66,67,68,69 |
|                 |      |                     |          |               | 26102              | ICE100/835/2P/ECO     | 1       | 100000               | 3500    | 80  | 8000                     | 5920 | 1,2,6,11,66,67,68,69  |
|                 |      |                     |          |               | 26101 <sup>⚡</sup> | ICE100/841            | 1       | 100000               | 4100    | 80  | 8000                     | 5920 | 1,2,11,65,66,67,68,69 |
|                 |      |                     |          |               | 26103              | ICE100/841/2P/ECO     | 1       | 100000               | 4100    | 80  | 8000                     | 5920 | 1,2,6,11,66,67,68,69  |



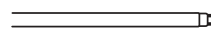
Icetron



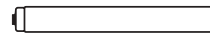
T12 Med Bipin



T5 Mini Bipin



T8 Med Bipin



T12 RDC

## SPECIALTY FLUORESCENT LAMPS

### ICETRON® Inductively Coupled, Electrodeless Lamps

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base          | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes    |
|--------------------|------|---------------------------|-------------|---------------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|---------------------------|
|                    |      |                           |             |               |                   |                          |            |                            |            |     | Initial                     | Mean |                           |
| 100                | T17  |                           | 12.32       | Mounting Bkts | 26105             | ICE100/850/2P/ECO        | 1          | 100000                     | 5000       | 80  | 7600                        | 5920 | 1,2,6,<br>11,66,67,68,69  |
| 150                | T17  |                           | 16.28       | Mounting Bkts | 26150             | ICE150/835               | 1          | 100000                     | 3500       | 80  | 12000                       | 8880 | 1,2,11,65,66,<br>67,68,69 |
|                    |      |                           |             |               | 26152             | ICE150/835/2P/ECO        | 1          | 100000                     | 3500       | 80  | 12000                       | 8880 | 1,2,6,<br>11,66,67,68,69  |
|                    |      |                           |             |               | 26151             | ICE150/841               | 1          | 100000                     | 4100       | 80  | 12000                       | 8880 | 1,2,11,65,66,<br>67,68,69 |
|                    |      |                           |             |               | 26153             | ICE150/841/2P/ECO        | 1          | 100000                     | 4100       | 80  | 12000                       | 8880 | 1,2,6,<br>11,66,67,68,69  |
|                    |      |                           |             |               | 26155             | ICE150/850/2P/ECO        | 1          | 100000                     | 5000       | 80  | 11650                       | 8880 | 1,2,6,<br>11,66,67,68,69  |

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### Diazo (SDB)

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base      | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|---------------------------|-------------|-----------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      |                           |             |           |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 65                 | T12  | 48                        | 47.78       | Med Bipin | 24465             | F40T12/SDB/65W           | 30         | 1000                       |            |     |                             |      | 86                     |

### Blacklight, Preheat Lamps (Starter Required)

These lamps are not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base       | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|---------------------------|-------------|------------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      |                           |             |            |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 6                  | T5   | 9                         | 8.91        | Mini Bipin | 20633             | F6T5/350BL               | 24         | 7500                       |            |     |                             |      | 1,2,71,72,73           |
| 8                  | T5   | 12                        | 11.91       | Mini Bipin | 20833             | F8T5/350BL               | 24         | 7500                       |            |     |                             |      | 1,2,71,72,74           |
| 15                 | T8   | 18                        | 17.78       | Med Bipin  | 21623             | F15T8/350BL              | 24         | 7500                       |            |     |                             |      | 1,2,71,72,75           |
| 20                 | T12  | 24                        | 23.78       | Med Bipin  | 22113             | F20T12/350BL             | 24         | 9000                       |            |     |                             |      | 1,2,71,72,76           |
| 22                 | T12  | 15                        | 14.78       | Med Bipin  | 21445             | F15T12/350BL/500/PH      | 30         |                            |            |     |                             |      | 1,2,71,72,77           |
| 25                 | T8   | 18                        | 17.78       | Med Bipin  | 21703             | F25T8/350BL/18in         | 24         |                            |            |     |                             |      | 1,2,71,72,78           |
| 30                 | T8   | 36                        | 35.78       | Med Bipin  | 23113             | F30T8/350BL              | 24         | 7500                       |            |     |                             |      | 1,2,71,72,79           |
| 32                 | T12  | 18                        | 17.78       | Med Bipin  | 21525             | F18T12/350BL/700/PH      | 30         |                            |            |     |                             |      | 1,2,71,72,80           |

### Blacklight, Rapid Start Lamps (No Starter Required)

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base        | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes    |
|--------------------|------|---------------------------|-------------|-------------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|---------------------------|
|                    |      |                           |             |             |                   |                          |            |                            |            |     | Initial                     | Mean |                           |
| 40                 | T12  | 48                        | 47.78       | Med Bipin   | 24922             | F40/350BL                | 30         | 20000                      |            |     |                             |      | 1,2,43,44,46,47,<br>72,81 |
| 115                | T12  | 48                        | 45.91       | Recessed DC | 25251             | FR48T12/350BL/VHO/180    | 30         | 10000                      |            |     |                             |      | 1,2,72,82,83              |

### Blacklight Blue, Preheat Lamps (Starter Required)

| Nominal<br>Wattage | Bulb | Nominal<br>Length<br>(in) | MOL<br>(in) | Base       | Product<br>Number | Ordering<br>Abbreviation | Pkg<br>Qty | Avg<br>Rated<br>Life (hrs) | CCT<br>(K) | CRI | Approx Lumens<br>@25°C/77°F |      | Symbols &<br>Footnotes |
|--------------------|------|---------------------------|-------------|------------|-------------------|--------------------------|------------|----------------------------|------------|-----|-----------------------------|------|------------------------|
|                    |      |                           |             |            |                   |                          |            |                            |            |     | Initial                     | Mean |                        |
| 4                  | T5   | 6                         | 5.91        | Mini Bipin | 20425             | F4T5/BLB                 | 24         | 6000                       |            |     |                             |      | 1,2,71,72              |
| 8                  | T5   | 12                        | 11.91       | Mini Bipin | 20825             | F8T5/BLB                 | 24         | 7500                       |            |     |                             |      | 1,2,71,72              |
| 15                 | T8   | 18                        | 17.78       | Med Bipin  | 21625             | F15T8/BLB                | 6          | 7500                       |            |     |                             |      | 1,2,71,72,84           |
| 20                 | T12  | 24                        | 23.78       | Med Bipin  | 22116             | F20T12/BLB/RP            | 6          | 9000                       |            |     |                             |      | 1,2,71,72,84           |





T12 Med Bipin

T5 Mini Bipin

T8 Med Bipin

## SPECIALTY FLUORESCENT LAMPS

### Blacklight Blue, Rapid Start Lamps (No Starter Required)

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base      | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes   |
|-----------------|------|---------------------|----------|-----------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|-----------------------|
|                 |      |                     |          |           |                |                       |         |                      |         |     | Initial                  | Mean |                       |
| 40              | T12  | 48                  | 47.78    | Med Bipin | 24026          | F40/BLB/RP            | 6       | 20000                |         |     |                          |      | 1,2,43,44,46,47,72,85 |

### Germicidal, Preheat Lamps (Starter Required)

| Nominal Wattage | Bulb | Nominal Length (in) | MOL (in) | Base       | Product Number | Ordering Abbreviation | Pkg Qty | Avg Rated Life (hrs) | CCT (K) | CRI | Approx Lumens @25°C/77°F |      | Symbols & Footnotes |
|-----------------|------|---------------------|----------|------------|----------------|-----------------------|---------|----------------------|---------|-----|--------------------------|------|---------------------|
|                 |      |                     |          |            |                |                       |         |                      |         |     | Initial                  | Mean |                     |
| 8               | T5   | 12                  | 11.91    | Mini Bipin | 20811          | G8T5                  | 24      | 6000                 |         |     |                          |      | 1,2,32,71,87        |
| 15              | T8   | 18                  | 17.78    | Med Bipin  | 21612          | G15T8                 | 24      | 7500                 |         |     |                          |      | 1,2,32,71,87        |
| 30              | T8   | 36                  | 35.78    | Med Bipin  | 23112          | G30T8                 | 24      | 7500                 |         |     |                          |      | 1,2,32,71,87        |

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**FLUORESCENT PREHEAT LAMP STARTERS**  
**GLOSTAT Starters**

| Product Number | Ordering Abbreviation | Pkg Qty | Description  | Symbols & Footnotes |
|----------------|-----------------------|---------|--|---------------------|
| 42812          | FS-2                  | 100     | Fluorescent starter for use with F14, F15 and F20 preheat fluorescent lamps. UL, CSA   | ☞ ☛                 |
| 42901          | FS-2/BL/2PK           | 12      | Fluorescent starter for use with F14, F15 and F20 preheat fluorescent lamps, bulk pack with 2 starters. UL, CSA  | ☞ ☛                 |
| 44812          | FS-4                  | 100     | Fluorescent starter for use with F13, F30 and F40 preheat lamps. UL, CSA   | ☞ ☛                 |
| 44820          | FS-4                  | 1000    | Fluorescent starter for use with F13, F30 and F40 preheat lamps. UL, CSA   | ☞ ☛                 |
| 44900          | FS-4/BL               | 100     | Fluorescent starter for use with F13, F30 and F40 preheat lamps, blister pack. UL, CSA   | ☞ ☛                 |
| 44902          | FS-4/BL/2PK           | 12      | Fluorescent starter for use with F13, F30 and F40 preheat lamps, blister pack with 2 starters. UL, CSA   | ☞ ☛                 |
| 45812          | FS-5                  | 100     | Fluorescent starter for use with F4, F6 and F8 preheat fluorescent lamps. UL, CSA  | ☞ ☛                 |
| 45813          | FS-5/BL/2PK           | 12      | Fluorescent starter for use with F4, F6 and F8 preheat fluorescent lamps, blister pack with 2 starters. UL, CSA  | ☞ ☛                 |
| 43813          | FS-12/BL/2PK          | 12      | Fluorescent starter for use with FC12 Circline lamps when operated by preheat ballasts and F22T8 preheat lamps, blister pack with 2 starters. UL, CSA  | ☞ ☛                 |
| 42512          | FS-25                 | 100     | Fluorescent starter for use with FC6 (20W) & FC8 (22W) Circline lamps when operated by preheat ballasts; F25 and F18T8 preheat lamps. UL, CSA  | ☞ ☛                 |
| 42513          | FS-25/BL/2PK          | 12      | Fluorescent starter for use with FC6 (20W) & FC8 (22W) Circline lamps when operated by preheat ballasts; F25 and F18T8 preheat lamps, blister pack with 2 starters. UL, CSA                            | ☞ ☛                 |
| 44901          | ST 111 STARTER        | 800     | Fluorescent starter for use with 4, 6, 8, 10, 13, 15, 16, 18, 20, 22, 30, 32, 36, 38, 40, 58, 65, 80W preheat lamps; 18, 24 & 36W DULUX L lamps when operated by preheat ballasts. ENEC & VDE approved | ☛                   |
| 44903          | ST 151 STARTER        | 800     | Fluorescent starter for series operation for use with 4, 6, 8, 15, 16, 18, 20, 22W preheat lamp; 18 & 24W DULUX L lamps when operated by preheat ballasts; ENEC & VDE approved                         | ☛                   |
| 44910          | ST 191 STARTER        | 800     | Fluorescent starter for use with 100, 115 & 140W preheat lamps; ENEC & VDE approved  | ☛                   |

**COP STARTERS WITH CUTOUT AND MANUAL RESET**

| Product Number | Ordering Abbreviation  | Pkg Qty | Description  | Symbols & Footnotes |
|----------------|------------------------|---------|--|---------------------|
| 42302          | FS-20 (COP-20)         | 100     | Fluorescent starter with cutout and manual reset for use with F15 & F20 preheat lamps. UL, CSA | ☞ ☛                 |
| 44102          | FS-40/400 (COP-40/400) | 100     | Fluorescent starter with cutout and manual reset for use with F40 preheat lamps. UL, CSA       | ☞ ☛                 |

**HID STARTER**











| Product Number | Ordering Abbreviation | Pkg Qty | Description   | Symbols & Footnotes |
|----------------|-----------------------|---------|---|---------------------|
| 44918          | SE600                 | 800     | Replacement starter element (built-in spark gap type) for igniters used with Powerstar HQI metal halide and Vialox HPS lamps. Replace each time lamp is replaced. |                     |

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FLUORESCENT

**SYMBOLS & FOOTNOTES FOR FLUORESCENT LAMPS**

| Symbol  | Description  |
|---|--|
|  | New item introduced within the past year.  |
|  | Item will be discontinued when inventory is depleted.  |
|  | QUICK60+® warranty   |
|  | Rating given for 200mA operation.  |
|  | This fluorescent lamp generates radiant energy which is most beneficial for plant propagation and enhances vegetative and reproductive growth of many plants for home and commercial use.      |
|  | This lamp or ballast meets minimum Federal efficiency standards.   |
|  | This ECOLOGIC® lamp was designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states. Disposal regulations may vary; check local and state regulations. |
|  | This lamp is a High Color Rendering Lamp   |
|  | Product is Canadian Standards Association approved for the Canadian market   |
|  | Product is Underwriters Laboratories listed  |

| Footnote | Description   |
|----------|---|
| 1        | Approximate initial lumens after 100 hours operation.   |
| 2        | The life ratings of fluorescent lamps are based on 3 hr. burning cycles under specified conditions and with ballast meeting ANSI specifications. If burning cycle is increased, there will be a corresponding increase in the average hours life.   |
| 3        | Rule of Thumb for Compact Fluorescent Lamps: Divide wattage of incandescent lamp by 4 to determine approximate wattage of compact fluorescent lamp that will provide similar light output.  |
| 4        | Minimum starting temperature: CF5: -22 degrees F; CF7: -4 degrees F; CF9: 14 degrees F; CF13DS: 14 degrees F; CF13DD: -4 degrees F; CF18DD: 5 degrees F; CF18DT: -4 degrees F; CF26: 14 degrees F.  |
| 5        | 2 pin CF lamps should never be installed in 4 pin sockets regardless if lamp will fit.  |
| 6        | SYLVANIA ECOLOGIC® fluorescent lamps are designed to pass the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states. TCLP test results are available upon request. Lamp disposal regulations may vary, check your local & state regulations. For more information, please visit <a href="http://www.lamprecycle.org">www.lamprecycle.org</a>   |
| 7        | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 1 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.3 meters (12 inches) should be limited; for example exposure at 0.2m (8 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.   |
| 8        | Minimum starting temperature is a function of the ballast; consult the ballast manufacturer.  |
| 9        | There is a NEMA supported, industry issue where T2, T4, and T5 fluorescent and compact fluorescent lamps operated on high frequency ballasts may experience an abnormal end-of-life phenomenon. This end-of-life phenomenon can result in one or both of the following: 1. Bulb wall cracking near the lamp base. 2. The lamp can overheat in the base area and possibly melt the base and socket. NEMA recommends that high frequency compact fluorescent ballasts have an end-of-life shutdown circuit which will safely and reliably shut down the system in the rare event of an abnormal end-of-life failure mode described above. The final requirements of this system are yet to be defined by ANSI. For additional information refer to NEMA papers on their WEBSITE at <a href="http://www.NEMA.org">www.NEMA.org</a> . |
| 10       | This 4-pin DULUX® lamp has an internal end-of-life mechanism (EOL) that shuts down the lamp preventing abnormal end-of life failure modes. This lamp was designed for use with high frequency ballasts that do not have their own end-of-life (lamp) sensing circuits, but it is also compatible with high frequency ballasts that have their own end-of-life (lamp) sensing circuits.  |
| 11       | Lumen output and life rated on high frequency operation.  |
| 12       | Amalgam compact fluorescent lamps provide at least 90% light output from 40-140 degrees F. Non-amalgam compact fluorescent lamps provide at least 90% light output from 60-100 degrees F in the base up position, the temperature range is narrower for horizontal or base down.  |
| 13       | These lamps may also be operated on rapid start circuits. On rapid start circuits the 24 watt lamp operates at 27 watts and the 36 watt lamp operated at 39 watts. Rated lamp life is unchanged.  |
| 14       | Lumen output rated on high frequency operation. 60 HZ operation would result in lower lumen output.   |
| 15       | DULUX® F lamps can typically be operated on DULUX L and PENTRON® HO ballasts of the same/similar wattage. Check with the ballast manufacturer to verify lamp/ballast compatibility.   |
| 16       | Minimum starting temperature for DULUX EL lamps is 0° F, unless otherwise specified in product literature.  |

## SYMBOLS &amp; FOOTNOTES FOR FLUORESCENT LAMPS

| Footnote | Description  |
|----------|--|
| 17       | DULUX® Els meet CSA, FCC and UL requirements.  |
| 18       | Caution: DULUX EL units cannot be used on dimming circuits, emergency exit fixtures or lights, electronic timers, photocells or lighted switches. In outdoor applications, use only in enclosed fixtures to avoid exposure to weather. Use only on 120V, 60 Hz circuits. Never disassemble or modify lamp. Install or remove unit from fixture by grasping plastic base. Best performance achieved when operated at 77degrees F (25 degrees C).  |
| 19       | Minimum starting temperature for EL Globes & Reflectors is -22 degrees F. Minimum starting temperature for EL Triples, Twists and Mini Twists is 0 degrees F.  |
| 20       | The life rating of OCTRON® and OCTRON Curvalume lamps operated on magnetic rapid start ballasts is 20,000 hours. The life rating of OCTRON and OCTRON Curvalume lamps operated on instant start electronic ballasts is 15,000 hours.   |
| 21       | OCTRON lamps should be operated only with magnetic rapid start ballasts designed to operate 265 mA, T8 lamps or high frequency (electronic) ballasts that are either instant start, or rapid start, or programmed rapid start specifically designed to operate T8 lamps. OCTRON lamps may be operated on instant start ballasts with ballast factors ranging from a minimum of 0.71 to a maximum of 1.20 at the nominal ballast input voltage. When OCTRON lamps are operated in the instant start mode, the two wires or two contacts of each socket should be connected to each other. They should then be connected to the appropriate ballast lead wire using National Electric Code techniques. |
| 22       | Life rating of OCTRON XP™ lamps operated on instant start electronic ballasts is 18,000 hours based on the industry standard life test cycle of 3 hours per start.   |
| 23       | The lamp lumen maintenance factor used to determine the mean lumen value was 95%. This is the lamp lumen maintenance factor at 8,000 hours, 40% of 20,000 hours. It was used to allow comparison to standard OCTRON® lamps with an average rated life of 20,000 hours. The lamp lumen maintenance factor at 40% of the 24,000 hour average rated life of this lamp, 9600 hours, would be 94%.  |
| 24       | Gold OCTRON lamp has plastic tube guard which filters wavelengths less than 525nm and provides shatter protection.   |
| 25       | SAFELINE® lamps satisfy the criteria of having a non-shattering covering for prevention of glass and other lamp components in your product by containment within the safety coating material. The covering must be intact or the lamp must be replaced to be in compliance. An onsite inspector will require correction if the lamps are installed improperly or not maintained properly.  |
| 26       | SAFELINE lamps are intended for indoor use only. Lamps must be used in ambient temperatures below 135 degrees F. The coating is designed to withstand constant operating temperatures up to 239 degrees F and has a melting point in excess of 500 degrees F. Lamps must be used with sockets that provide adequate lamp pin to socket contact. Lamps must not be used with defective ballasts sockets, or fixtures with improper wiring.  |
| 27       | The lumen maintenance factor used to determine the mean lumens value was 90%, measured at 40% of the average rated life, 15,000 hours. The lumen maintenance factor at 4,000-4,800 hours (for comparison to F96T12 HO and F96T12 Slimline instant start lamps) is 91%.   |
| 28       | The lamp lumen maintenance factor used to determine the mean lumen value was 95%. This is the lamp lumen maintenance factor at 8000 hours, 40% of 20,000 hours. It was used for comparison to standard OCTRON® lamps with an average rated life of 20,000 hours. The lamp lumen maintenance factor at 40% of 24,000 hours, 9600 hours, would be 94%; the lamp lumen maintenance factor at 40% of 30,000 hours, 12,000 hours, would be 93%  |
| 29       | This lamp may also be operated by the OSRAM SYLVANIA QUICKTRONIC® PSN ballast (.88 BF), or the QUICKTRONIC PSX ballast (.71 BF).   |
| 30       | Recommended to be used on any F32 T8 Instant Start circuit. It is not recommended to be used:(1) with Rapid Start circuits unless the open circuit voltage is greater than 550V, (2) at lamp ambient temperatures below 60 degrees F or in drafty locations, (3) on low power factor ballast, (4) dimming ballast or (5) inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with the OCTRON® SUPERSAVER® 28 or 30 watt, 4 foot or 30W U-bent T8 lamp. Any of the above situations could result in lamp starting and stabilization problems.   |
| 31       | The 30,000 hour average rated life of the F032/800XPS/ECO OCTRON® lamp is based on operation at 3 hours per start on a dedicated QUICKTRONIC® PSX ballast. If operated on other ballasts for T8 OCTRON lamps, lamp life will be 20,000 hours for rapid start operation, 24,000 hours for programmed rapid start operation and 15,000 hours for instant start operation at 3 hours per start.   |
| 32       | Germicidal lamps can be operated on corresponding wattage preheat ballasts.  |
| 33       | Mean lumens at 8,000 hours (40% of 20,000 hours for comparison to standard OCTRON and F40 rapid start lamps). The lumen maintenance factor at 40% of average rated life (9,600 hours) is 94%.  |
| 34       | Recommended to be used on any F96 T8 Instant Start circuit. It is not recommended to be used: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballast, or (3) inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with the OCTRON F096 SUPERSAVER 55 watt T8 lamp. Any of the above situations could result in lamp starting and stabilization problems.   |

**SYMBOLS & FOOTNOTES FOR FLUORESCENT LAMPS**

| Footnote | Description  |
|----------|--|
| 35       | The lumen maintenance factor used to determine the mean lumen value was 95%. This is the lamp lumen maintenance factor at 6000 hours, 40% of 15,000 hours. It was used to allow comparison to standard OCTRON® lamps with an average rated life of 15000 hours. The lamp lumen maintenance factor at 40% of the 18,000 hour average rated life of this lamp, 7200 hours, would be 94%.   |
| 36       | The lumen maintenance factor used to determine the mean lumens value was 92%, measured at 40% of the average rated life, 15,000 hours. The lumen maintenance factor at 4,000-4,800 hours (for comparison to F96T12 HO and F96T12 Slimline instant start lamps) is 93%.   |
| 37       | Approximate length of OCTRON CURVALUME lamps is measured from base face to outside of glass bend.  |
| 38       | For optimum performance OCTRON CURVALUME 1 5/8 inch leg spacing lamps in the 3000K, 3500K and 4100K color temperatures are now available only in the 82CRI version (800 series). These lamps are made to the same color standards and may be used in combination with other SYLVANIA OCTRON lamps to meet the needs of lighting installations where T8 lamps are used.   |
| 39       | The 30,000 hour average rated of the OCTRON® XPS CURVALUME® lamp is based on operation at 3 hours per start by a dedicated QUICKTRONIC® PSX ballast. If operated by other ballasts for T8 OCTRON lamps, life will be the same as that of the XP version of the lamp: typically 24,000 hours for rapid or programmed rapid start operation and 18,000 hours for instant start operation at 3 hours per start.   |
| 40       | The lamp lumen maintenance factor used to determine the mean lumen value was 95%. This is the lamp lumen maintenance factor at 8,000 hours, 40% of 20,000 hours. It was used to allow comparison to standard OCTRON lamps with an average rated life of 20,000 hours. The lamp lumen maintenance factor at 40% of 24,000 hours, 9600 hours, would be 94%; the lamp lumen maintenance factor at 40% of 30,000 hours, 12000 hours, would be 93%.   |
| 42       | Recommended only for use on 2-lamp, 30 watt rapid-start high power factor lead, indoor ballasts that meet ANSI standards. Not intended for use: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballasts, (3) reduced current/reduced light output ballasts, (4) dimming ballasts, or (5) on inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with 25 watt lamps.           |
| 43       | Average rated life is measured at 3 hours per start on 2-lamp, rapid start magnetic ballasts per IES recommended practice. Lamp life on single-lamp rapid start ballasts may be reduced.   |
| 44       | Average life rating at 12 hours operation per start is 28,800 hours.   |
| 45       | Recommended for use on one or two lamp 40 watt rapid start, high power factor, lead, indoor ballasts that meet ANSI standards. Not intended for use: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballasts, (3) reduced current/reduced light output ballasts, (4) dimming ballasts, or (5) on inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with 34 watt lamps.      |
| 46       | The "RS" designation has been eliminated to simplify the ordering abbreviation.  |
| 47       | 40W Rapid Start Lamps may be used in starter operated fixtures designed for 40W preheat lamps. Life rating for preheat service is approximately 15,000 hours average.  |
| 48       | Rating for OSRAM SYLVANIA Circline lamps are based on operation in Rapid Start circuits. They will also operate on preheat circuits.   |
| 49       | Caution: DULUX® EL Circline units cannot be used on dimming circuits, emergency exit fixtures or lights, electronic timers, photocells or lighted switches. In outdoor applications, use only in enclosed fixtures to avoid exposure to weather. Use only on 120V, 60 Hz circuits.   |
| 50       | Recommended for use on one or two lamp high power factor, lead, 8-foot lamp, high output, indoor ballasts that meet ANSI standards. Not intended for use: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballasts, (3) reduced current/reduced light output ballasts, (4) dimming ballasts, or (5) on inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with 95 watt lamps. |
| 51       | Average life rating at 12 hours operation per start is 18,000 hours.   |
| 52       | May be operated at 100 watts (1000MA) same as F84T12/HO.   |
| 53       | Labeled for cold temperature (below 60 degrees F) operation only per EPACK.  |
| 54       | Average life rating at 12 hours operation per start is 15,000 hours.   |
| 55       | Low temperature performance rated at 35 degrees F ambient.   |
| 56       | Low temperature performance rated at 35 degrees F ambient.   |
| 57       | Cool White lamp with 30 degree aperture (Power Beam).  |
| 58       | Recommended for use on 2-lamp high power factor, lead, 8-foot lamp, very high output, indoor ballasts that meet ANSI standards. Not intended for use: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballasts, (3) reduced current/reduced light output ballasts, (4) dimming ballasts, or (5) on inverter operated emergency lighting systems unless equipment is specifically listed for use with 195 watt lamps.                     |
| 59       | Recommended for use on one or two lamp high power factor, lead, instant-start, indoor ballasts that meet ANSI standards. Not intended for use: (1) at lamp ambient temperatures below 60 degrees F or in drafty locations, (2) on low power factor ballasts, (3) reduced current/reduced light output ballasts, (4) dimming ballasts, or (5) on inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with 32 watt or 60 watt lamps. |

## SYMBOLS & FOOTNOTES FOR FLUORESCENT LAMPS

| Footnote | Description  |
|----------|--|
| 60       | For operation on instant start circuits. Use only in fixtures equipped with Instant Start Ballasts.  |
| 61       | A fluorescent jacketed lamp consists of a T12 (1 1/2" diameter) lamp enclosed inside a T14.5 (1 13/16" diameter) glass jacket. A jacketed fluorescent lamp operates efficiently over a wide range of climatic conditions, including extremes of cold and strong wind in which an unjacketed (bare) lamp would be inefficient or inoperable. The jacket size provides the clearance necessary to minimize damaging lamp-jacket contact; narrow bands of rubber placed between the lamp and the jacket further prevent contact. A weather-tight seal is formed by neoprene rubber end caps.  |
| 62       | Preheat lamp, starter required.  |
| 63       | Due to their small diameter, T2 miniature fluorescent lamps operate at higher surface temperatures than other fluorescent lamps. To avoid possible burns, do not touch the lamp during operation and allow sufficient cooling time before removing the lamp from the fixture. The typical bulb wall temperature during operation is 120 degrees at the ends. The maximum allowable bulb wall temperature is 150 degrees C. To avoid electrical shock, turn electrical power off before removing or installing the lamp.  |
| 64       | Use only with electronic ballasts which have been specifically designed to operate T2 miniature fluorescent lamps and to reliably and safely control all lamp operating modes including end-of-lamp-life sensing circuitry. If a non-conforming ballast is used, very high temperatures (350 degrees C typical) may be generated at the ends of the lamp especially during end-of-lamp-life operation, causing the lamp to crack and resulting in potential fire, electrical shock, or burn hazards.   |
| 65       | Current ballast design incorporates a modular 2-Pin connector plugin from the lamp. An adapter, NAED code 26240, is available to connect 3-Pin lamp types to current (2-Pin) design ballasts.  |
| 66       | Color and CRI at amalgam tip temperature of 149 degrees F (65 degrees C) for ICETRON 70 and ICETRON 100 and at 158 degrees F (70 degrees C) amalgam tip temperature for ICETRON 150.   |
| 67       | ICETRON diameter is the outside diameter of the ferrite coil. ICETRON MOL is the length from the outside edge of the mounting bracket on one end to the outside edge of the mounting bracket on the opposite end.  |
| 68       | WARNING: ICETRON® Inductively Coupled Electrodeless Fluorescent lamp. Read these warnings and instructions before installing and using this lamp. 1. This lamp operates at a higher temperature (130 C) than standard fluorescent lamps. To avoid the possibility of minor skin burns, do not touch lamp or metal mounting brackets during operation and allow sufficient cooling time prior to servicing, handling, or replacing lamp. 2. This lamp generates electric and magnetic fields during operation. The electric and magnetic fields generated by this lamp during operation in typical lighting applications do not pose exposure risks relative to the limits documented in ANSI C95.1. 3. To prevent electric shock, shut off the main power to the fixture and allow at least two minutes for ballast voltage to discharge before attempting to service or replace lamp. 4. To obtain optimum safety and system performance, use only with OSRAM SYLVANIA ballast. 5. To avoid potential electric shock hazard, do not use lamp if wires or insulation are cut or pulled out of connector. 6. To avoid potential electric shock hazard, do not use lamp if wires or insulation are cut or pulled out of connector. |
| 69       | WARNING: ICETRON® Inductively Coupled Electrodeless Fluorescent lamp. Read these warnings and instructions before installing and using this lamp. Instructions for Installation and Use. 1. To avoid premature lamp or ballast failure and ensure proper lamp, ballast, and system performance, make sure lamp, ballast, and fixture are properly installed. Electrical interconnects, electrical grounds, thermal management, and heat sinking specifications and requirements must be fully adhered to in all applications. (See OSRAM SYLVANIA ICETRON DESIGN GUIDE.) 2. Do not alter the electrical connector on lamp and/or ballast. To do so may adversely affect lamp operation, ballast life, and/or emission of EMI (electromagnetic interference). 3. This product may cause interference with radios, cordless telephones, and remote control devices. If interference occurs, relocate the radios, cordless telephones, and/or remote control devices away from this product.  |
| 70       | The /2P version of the ICETRON lamp is supplied with a 24 inch lead wire terminated by a 2-Pin connector rather than the old 12 inch lead, 3-Pin connector design. The /2P versions are powered by QT1X100 ICE/UNV-T or QT1X150 ICE/UNV-T ballasts.  |
| 71       | Starter required.  |
| 72       | These lamps are not intended and should not be used for diagnostic, therapeutic, or cosmetic purposes.   |
| 73       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 1 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.35 meters (14 inches) should be limited; for example exposure at 0.25m (10 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.   |
| 74       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.45 meters (18 inches) should be limited; for example exposure at 0.3m (12 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 75       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.55 meters (22 inches) should be limited; for example exposure at 0.4m (16 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |

## SYMBOLS & FOOTNOTES FOR FLUORESCENT LAMPS

| Footnote | Description  |
|----------|--|
| 76       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.65 meters (26 inches) should be limited; for example exposure at 0.45m (18 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes. |
| 77       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.6 meters (24 inches) should be limited; for example exposure at 0.45m (18 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 78       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.7 meters (28 inches) should be limited; for example exposure at 0.54m (20 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 79       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.75 meters (30 inches) should be limited; for example exposure at 0.55m (22 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes. |
| 80       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.8 meters (31 inches) should be limited; for example exposure at 0.55m (22 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 81       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 1.0 meters (39 inches) should be limited; for example exposure at 0.64m (24 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 82       | Blacklight lamp with 180 degree reflector.   |
| 83       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 2 per ANSI/IESNA RP-27.3-96. Exposure at less than 2.0 meters (79 inches) should be limited; for example exposure at 1.4m (55 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.   |
| 84       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 1 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.25 meters (10 inches) should be limited; for example exposure at 0.14m (6 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.  |
| 85       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 1 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.3 meters (12 inches) should be limited; for example exposure at 0.14m (6 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.   |
| 86       | CAUTION: This lamp emits ultraviolet (UV) power during operation and is in Risk Group 1 per ANSI/IESNA RP-27.3-96. Exposure at less than 0.3 meters (12 inches) should be limited; for example exposure at 0.15m (6 inches) should not exceed 4 hours in an 8 hour interval (see ANSI/IESNA RP-27.1-96). Certain medications and chemicals can increase an individual's sensitivity. Consult your physician for specific information. Protective eyewear should be worn in occupational situations involving long term exposure in close proximity to the lamp. This lamp is not intended and should not be used for diagnostic, therapeutic or cosmetic purposes.   |
| 87       | WARNING: To prevent possible serious injury, eyes and skin should not be exposed to direct or reflected ultraviolet power emitted by this lamp. This lamp is in Risk Group 3 per ANSI/IESNA RP-27.3-96. Adequate protection should be provided by clothing, gloves, opaque materials, and ordinary window glass. Although this lamp will operate in standard fluorescent fixtures, it should not be used for general lighting applications.  |

**QUICKTRONIC® ELECTRONIC BALLASTS**  
**THE SYSTEM SOLUTION™**

**OCTRON® T8 Systems**

Instant Start

|                     |  |
|---------------------|--|
| Normal Light Output | 30 to 40% energy savings over F40T12 magnetic systems with comparable light output.  |
| High Light output   | 20% more lumen output than F40T12 magnetic systems while saving nearly 20% in energy. 30% more light output than standard T8 systems - fewer lamps/ballasts/fixtures required. |
| Low Power           | 77% ballast factor for reduced wattage applications. 15% energy savings over standard T8 systems and 30% over F34T12 magnetic systems.   |

Instant Start Professional -  
 Universal Voltage

30 to 40% energy savings over F40T12 magnetic systems with comparable light output.

High Efficiency Saves 6% over standard electronic T8 ballasts.

Programmed Rapid Start Professional  
 (PROStart®) Universal Voltage

Operates linear and U bend T8 lamps in applications where extended lamp life is required. In short cycle applications, delivers over twice the number of start cycles as IS or RS Circuits

PSX T8 Universal Voltage Professional  
 (PROStart)

Extra low (0.71) ballast factor ballast combined with high lumen output OCTRON XPS® T8 lamps delivers 15% energy savings over standard 700 series T8/88% BF systems with comparable light output

Dimming (HELIOS™) Professional

Operates linear and U-bend equivalent T8 lamps over a wide dimming range (100-5% and 100-10% models). Controlled via standard 0-10V fluorescent dimmers Ideal for both energy management and architectural applications.

Instant Start 8 Foot T8

Normal Light Output Over 30% energy savings when compared to F96T12 magnetic systems.

High Light Output 30% more light output than standard T8 systems and 20% more than F96T12 systems.

Instant Start 8 foot T8 Professional

Over 30% energy savings when compared to F96T12 magnetic systems

**SLIMLINE T12 and T12HO Systems**

T12 Rapid Start and  
 T12HO Rapid Start 8 foot

15% energy savings over standard magnetic systems

T12 Instant Start 8 foot

88% Ballast Factor for most standard applications. Operates silently and provides energy savings of 10 to 15%

**PENTRON® T5 Systems (PROStart)**

T5 Programmed Rapid Start Professional

Contains QUICKSENSE® end-of-lamp-life sensing technology

Over 10% more lumen output than T8 systems at comparable power levels. New benchmark for 2-lamp system efficacy of 92 LPW.

T5HO Programmed Rapid Start Professional

Provides nearly twice the light output (188%) of T8 systems.

T5HO Dimming (HELIOS) Professional

Provides nearly twice the light output (188%) of T8 systems. Operates PENTRON®HO, PENTRON HO Circline and DULUX®L T5 lamps over a wide (100-1%) dimming range.

**Compact Fluorescent TT5 Systems**

TT5 Instant Start

Contains QUICKSENSE end-of-lamp-life sensing technology

Over 30% more lumen output than 34T12 systems at nearly the same input power.

TT5 Programmed Rapid Start  
 Professional (PROStart)

Over 20% more lumen output than 34T12 systems.

**Compact Fluorescent T4 Systems (PROStart)**

Universal Voltage

Contains QUICKSENSE end-of-lamp-life sensing technology

Four mounting styles of low profile, lightweight enclosures provide simple assembly for any fixture application.

**Fluorescent Miniature T2 Systems**

Small diameter lamp and low profile ballast create new design opportunities. Contains end-of-lamp-life sensing technology.

**ICETRON® Systems**

Longest life available from a fluorescent system in the market today. Lamp can last 100,000 hours, reducing maintenance costs and extending relamping cycles.

**Electronic Metal Halide Systems**

Small and light weight. Electronic design delivers performance levels unattainable with standard magnetic systems, including up to 15% energy savings.

**NOTE:** For LED power supplies and modules, go to the LED Systems section.

ELECTRONIC BALLASTS



## HOW TO READ PRODUCT INFORMATION - ELECTRONIC BALLASTS

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---------------------|
| FO32T8            | 2           | 120                 | 49913          | QT2X32T8/120ISN-SC    | 10      | 0.90           | 59                | 0.51                 | Leads         | Ⓢ Ⓣ<br>1,2,3,4      |
| FO32T8            | 2           | 277                 | 49914          | QT2X32T8/277ISN-SC    | 10      | 0.90           | 59                | 0.22                 | Leads         | Ⓢ Ⓣ<br>1,2,3,4      |

|                       |  |
|-----------------------|--|
| <b>Dimensions</b>     | Go to <a href="http://www.sylvania.com">www.sylvania.com</a> |
| <b>Wiring Diagram</b> | Go to <a href="http://www.sylvania.com">www.sylvania.com</a> |
| <b>Wiring Method</b>  | Indicates if product has lead wires or wiretrap connectors   |

## HOW TO READ ORDERING ABBREVIATIONS

| QT2X32T8/120ISN-SC |                                      | QTP3X32T8/UNV ISN-SC |   | QTP2X32T8/UNVPSN-SC |   |
|--------------------|--------------------------------------|----------------------|---|---------------------|---|
| <b>QT</b>          | QT - QUICKTRONIC®                    | <b>QTP</b>           | QTP - QUICKTRONIC Professional Series <10%THD | <b>QTP</b>          | QTP - QUICKTRONIC Professional Series <10%THD |
| <b>2x</b>          | Number of lamps the ballast operates | <b>3x</b>            | Number of lamps the ballast operates          | <b>2x</b>           | Number of lamps the ballast operates          |
| <b>32T8</b>        | Lamp wattage or length               | <b>32</b>            | Lamp wattage or length                        | <b>32</b>           | Lamp wattage or length                        |
| <b>120</b>         | Input voltage                        | <b>T8</b>            | Lamp type                                     | <b>T8</b>           | Lamp type                                     |
| <b>ISN</b>         | Starting Method/Ballast Factor       | <b>UNV</b>           | Input voltage (120-277V)                      | <b>UNV</b>          | Input voltage (120-277V)                      |
| <b>SC</b>          | Case Size                            | <b>IS</b>            | Starting Method                               | <b>PS</b>           | Starting method                               |
|                    |                                      | <b>N</b>             | Ballast Factor                                | <b>N</b>            | Ballast factor                                |
|                    |                                      | <b>SC</b>            | Case Size                                     | <b>SC</b>           | Case size                                     |

## BALLAST CATEGORIES

|   |   |
|---|---|
| <b>QUICKTRONIC</b>                          | SYLVANIA QUICKTRONIC electronic ballasts feature high power quality (<20% THD).   |
| <b>QUICKTRONIC Professional Series</b>      | SYLVANIA QUICKTRONIC Professional Series (QTP) of electronic ballasts feature high power quality (<10% THD), lightweight, low profile designs.  |
| <b>Number of lamps the ballast operates</b> | 1x, 1/2x, 2x, 3x, 4x.   |
| <b>Lamp type</b>                            | T8, T12, T12HO, T5, T5HO, TT5 & DL - DULUX® L, CF - T4 Compact Fluorescent, FM - T2 Fluorescent Miniature, ICE - ICETRON®, MH - Metal Halide.   |
| <b>Input voltage</b>                        | 120, 230, 277, 347, UNV - Universal 120-277.  |
| <b>Starting Method</b>                      | IS - Instant start, PS - Programmed Rapid Start, DIM - Dimming, RS - Rapid Start.   |
| <b>Ballast Factor</b>                       | N - Normal Ballast Factor(0.85-1.00), L - Low Ballast Factor(0.75-0.80), H - High Ballast Factor(1.13-1.20), X - Very Low Ballast Factor(0.71), PLUS - High Ballast Factor(1.15-1.20), LP - Low Ballast Factor(0.77). |
| <b>Case Size</b>                            | Go to <a href="http://www.sylvania.com">www.sylvania.com</a>  |
| <b>Packaging configuration</b>              | Distributor Pack.   |
| <b>Leads vs Connectors</b>                  | Go to <a href="http://www.sylvania.com">www.sylvania.com</a>  |

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**T8 FLUORESCENT**  
**T8 INSTANT START, <20%THD**

**Normal Light Output**

Operates FBO16, F017, FBO24, F025, FBO31, F032, FBO32, F040 & SUPERSAVER® Equivalents; For F40T8 oper:  
on a 3 lamp ballast or 3 lamps on a 4 lamp ballast

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes               |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|-----------------------------------|
| FO32/XP           | 1           | 120                 | 49911          | QT1X32T8120ISNSC      | 10      | 0.90           | 30                | 0.26                 | Leads         | ☉ ☰ 1,2,4,6,7,8,9,10,11,12,13     |
|                   |             |                     | 49912          | QT1X32T8277ISNSC      | 10      | 0.90           | 30                | 0.11                 | Leads         | ☉ ☰ 1,2,4,6,7,8,9,10,11,12,13     |
|                   | 2           | 120                 | 49913          | QT2X32T8120ISNSC      | 10      | 0.90           | 59                | 0.51                 | Leads         | ☉ ☰ ☑ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             |                     | 49914          | QT2X32T8277ISNSC      | 10      | 0.90           | 59                | 0.22                 | Leads         | ☉ ☰ ☑ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             |                     | 49240          | QT2X32T8347ISNSC      | 10      | 0.90           | 59                | 0.18                 | Leads         | ☉ ☰ ☑ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   | 3           | 120                 | 49915          | QT3X32T8/120-ISN-SC   | 10      | 0.89           | 87                | 0.74                 | Leads         | ☉ ☰ 1,2,5,6,7,8,9,10,11,12,13     |
|                   |             |                     | 49916          | QT3X32T8/277-ISN-SC   | 10      | 0.89           | 87                | 0.32                 | Leads         | ☉ ☰ 1,2,4,5,6,7,8,9,10,11,12,13   |
|                   |             |                     | 49593          | QT3X32/347IS          | 10      | 0.90           | 87                | 0.26                 | Leads         | ☉ 1,2,4,5,6,7,8,9,10,11,12,13     |
|                   | 4           | 120                 | 49917          | QT4X32T8/120-ISN-SC   | 10      | 0.89           | 114               | 0.95                 | Leads         | ☉ ☰ 1,2,4,5,6,7,8,9,10,11,12,13   |
|                   |             |                     | 49918          | QT4X32T8/277-ISN-SC   | 10      | 0.89           | 114               | 0.42                 | Leads         | ☉ ☰ 1,2,4,5,6,7,8,9,10,11,12,13   |
|                   |             |                     | 49594          | QT4X32/347IS          | 10      | 0.90           | 114               | 0.34                 | Leads         | ☉ 1,2,4,5,6,7,8,9,10,11,12,13     |

**High Light Output**

Operates FBO31, F032, FBO32 & SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---------------------------------|
| FO32/XP           | 2           | 120                 | 49923          | QT2X32T8/120-ISH-SC   | 10      | 1.20           | 78                | 0.67                 | Leads         | ☉ ☰ ☑ 1,2,4,6,7,8,9,10,11,12,13 |
|                   |             |                     | 49924          | QT2X32T8/277-ISH-SC   | 10      | 1.20           | 78                | 0.29                 | Leads         | ☉ ☰ ☑ 1,2,4,6,7,8,9,10,11,12,13 |
|                   |             |                     | 49226          | QT2X32/347PLUS        | 10      | 1.20           | 78                | 0.23                 | Leads         | ☉ ☰ ☑ 1,2,4,6,7,8,9,10,11,12,13 |
|                   | 3           | 120                 | 49525          | QT3X32/120PLUS        | 10      | 1.18           | 112               | 0.96                 | Leads         | ☉ ☰ 1,2,4,6,7,8,9,10,11,12,13   |
|                   |             |                     | 49526          | QT3X32/277PLUS        | 10      | 1.18           | 112               | 0.42                 | Leads         | ☉ ☰ 1,2,4,6,7,8,9,10,11,12,13   |
|                   | 4           | 277                 | 49521          | QHE4X32T8277ISH       | 10      | 1.15           | 148               | 0.53                 | Leads         | ☉ ☰ 1,2,4,6,7,8,9,10,11,12,13   |

• Data shown is based on primary lamp type.

**T8 FLUORESCENT**

**T8 INSTANT START, <10%THD**

High Light Output, Universal Voltage

Operates FBO31, FO32, FBO32 & SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes  |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|----------------------|
| F032/XP           | 3           | Universal 120-277   | 49845*         | QTP3X32T8UNVISHSC     | 10      | 1.18           | 114/111           | 0.95/0.41            | Leads         | Ⓢ Ⓣ 1,2,4,6,7,8,9,10 |

**T8 INSTANT START, <20%THD**

Low Power Systems

Operates FBO16, FO17, FBO24, FO25, FBO31, FO32, FBO32, FO40 & SUPERSAVER® Equivalents; For F40T8 operation use 1 lamp on a 2 lamp ballast, 2 lamps on a 3 lamp ballast or 3 lamps on a 4 lamp ballast

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---------------------------------|
| F032/XP           | 1           | 120                 | 49931*         | QT1X32T8/120-ISL-SC   | 10      | 0.77           | 28                | 0.24                 | Leads         | Ⓢ Ⓣ 1,2,4,6,7,8,9,10,11,12,13   |
|                   |             | 277                 | 49932*         | QT1X32T8/277-ISL-SC   | 10      | 0.77           | 26                | 0.10                 | Leads         | Ⓢ Ⓣ 1,2,4,6,7,8,9,10,11,12,13   |
| 2                 | 2           | 120                 | 49933          | QT2X32T8/120-ISL-SC   | 10      | 0.77           | 51                | 0.44                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49934          | QT2X32T8/277-ISL-SC   | 10      | 0.77           | 51                | 0.19                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 347                 | 49241          | QT2X32T8347ISLSC      | 10      | 0.77           | 51                | 0.15                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
| 3                 | 3           | 120                 | 49935*         | QT3X32T8/120-ISL-SC   | 10      | 0.77           | 76                | 0.66                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49936          | QT3X32T8/277-ISL-SC   | 10      | 0.77           | 76                | 0.29                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
| 4                 | 4           | 120                 | 49537*         | QT4X32/120LP          | 10      | 0.77           | 98                | 0.84                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49538          | QT4X32/277LP          | 10      | 0.77           | 98                | 0.37                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 347                 | 49225          | QT4X32/347LP          | 10      | 0.77           | 98                | 0.29                 | Leads         | Ⓢ 1,2,4,5,6,7,8,9,10,11,12,13   |

**T8 INSTANT START, <10%THD**

Universal Voltage

Operates FBO16, FO17, FBO24, FO25, FBO31, FO32, FBO32, FO40 & SUPERSAVER® Equivalents; For F40T8 operation use 1 lamp on a 2 lamp ballast, 2 lamps on a 3 lamp ballast or 3 lamps on a 4 lamp ballast

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes           |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|-------------------------------|
| F032/XP           | 1           | Universal 120-277   | 49941          | QTP1X32T8/UNV-ISN-SC  | 10      | 0.88           | 30                | 0.26/0.11            | Leads         | Ⓢ Ⓣ 1,2,4,6,7,8,9,11,12,13,17 |
|                   |             | Universal 120-277   | 49943          | QTP2X32T8/UNV-ISN-SC  | 10      | 0.88           | 59                | 0.50/0.21            | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,11,12,17  |
|                   |             | Universal 120-277   | 49945          | QTP3X32T8/UNV-ISN-SC  | 10      | 0.88           | 87                | 0.75/0.32            | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,11,12     |
|                   |             | Universal 120-277   | 49947          | QTP4X32T8/UNV-ISN-SC  | 10      | 0.88           | 114               | 0.95/0.40            | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,11,12,24  |

\* Data shown is based on primary lamp type.



**T8 FLUORESCENT**  
HIGH EFFICIENCY, <10%THD

Instant Start  
ISN, ISL: Operates FBO16, FO17, FBO24, FO25, FBO31, FO32, FBO32 & SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--------------------------------|
| F032/XP           | 1           | Universal 120-277   | 49851*         | QHE1X32T8UNVISNSC     | 10      | 0.88           | 28                | 0.25/0.11            | Leads         | ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17   |
|                   | 2           | Universal 120-277   | 49853*         | QHE2X32T8UNVISNSC     | 10      | 0.88           | 55                | 0.47/0.20            | Leads         | ☉ ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17 |
|                   | 3           | Universal 120-277   | 49855*         | QHE3X32T8UNVISNSC     | 10      | 0.88           | 83/82             | 0.69/0.30            | Leads         | ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17   |
|                   | 4           | Universal 120-277   | 49857*         | QHE4X32T8UNVISNSC     | 10      | 0.88           | 108/107           | 0.91/0.39            | Leads         | ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17   |
|                   | 2           | Universal 120-277   | 49863*         | QHE2X32T8UNVISLSC     | 10      | 0.78           | 48                | 0.41/0.18            | Leads         | ☉ ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17 |
|                   | 4           | Universal 120-277   | 49867*         | QHE4X32T8UNVISLSC     | 10      | 0.78           | 95                | 0.80/0.35            | Leads         | ☉ ☉ 1,2,4,5,6,7,8,9,11,12,17   |

**T8 PROGRAMMED START, <10%THD**

Universal Voltage Xtreme System Low Ballast Factor  
Operates FBO24, FO25, FBO31, FO32, FBO32

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--------------------------------|
| F032/XPS          | 1           | Universal 120-277   | 51420          | QTP1X32T8/UNVPSX TC   | 10      | 0.71           | 25                | 0.21/0.09            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
|                   | 2           | Universal 120-277   | 51425          | QTP2X32T8/UNVPSX TC   | 10      | 0.71           | 47/46             | 0.40/0.17            | Leads         | ☉ ☉ ☉ 2,4,6,8,9,10,11,12,17,75 |
|                   | 3           | Universal 120-277   | 51430          | QTP3X32T8/UNVPSX SC   | 10      | 0.71           | 73/71             | 0.59/0.25            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
|                   | 4           | Universal 120-277   | 51435          | QTP4X32T8/UNVPSX SC   | 10      | 0.71           | 93/91             | 0.78/0.33            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |

Universal Voltage SUPERSAVER® Xtreme System Low Ballast Factor  
Operates FO30WSS & FO28WSS Lamps

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--------------------------------|
| F030/SS           | 1           | Universal 120-277   | 51420          | QTP1X32T8/UNVPSX TC   | 10      | 0.71           | 24                | 0.21/0.09            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
| F028/SS           | 1           | Universal 120-277   | 51420          | QTP1X32T8/UNVPSX TC   | 10      | 0.71           | 22                | 0.19/0.09            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
| F030/SS           | 2           | Universal 120-277   | 51425          | QTP2X32T8/UNVPSX TC   | 10      | 0.71           | 44/43             | 0.37/0.16            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
| F028/SS           | 2           | Universal 120-277   | 51425          | QTP2X32T8/UNVPSX TC   | 10      | 0.71           | 41/40             | 0.35/0.15            | Leads         | ☉ ☉ ☉ 2,4,6,8,9,10,11,12,17,75 |
| F030/SS           | 3           | Universal 120-277   | 51430          | QTP3X32T8/UNVPSX SC   | 10      | 0.71           | 69/67             | 0.58/0.24            | Leads         | ☉ ☉ ☉ 2,4,6,8,9,10,11,12,17,75 |
| F028/SS           | 3           | Universal 120-277   | 51430          | QTP3X32T8/UNVPSX SC   | 10      | 0.71           | 64/62             | 0.55/0.23            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
| F030/SS           | 4           | Universal 120-277   | 51435          | QTP4X32T8/UNVPSX SC   | 10      | 0.71           | 88/86             | 0.74/0.31            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |
| F028/SS           | 4           | Universal 120-277   | 51435          | QTP4X32T8/UNVPSX SC   | 10      | 0.71           | 82/80             | 0.70/0.30            | Leads         | ☉ ☉ 2,4,6,8,9,10,11,12,17,75   |

\* Data shown is based on primary lamp type.

**T8 FLUORESCENT****T8 PROGRAMMED START, <10%THD****Universal Voltage Normal Light Output**

Operates FBO16, FO17, FBO24, FO25, FBO31, FO32, FBO32, &amp; SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--------------------------------|
| FO32/XP           | 1           | Universal 120-277   | 51400*         | QTP1X32T8/UNVPSNTC    | 10      | 0.88           | 31/30             | 0.26/0.11            | Leads         | ☉ ☐ 2,4,6,8,9,10,11,12,17,75   |
|                   | 2           | Universal 120-277   | 51405          | QTP2X32T8/UNVPSN TC   | 10      | 0.88           | 60/58             | 0.50/0.21            | Leads         | ☉ ☐ ☑ 2,4,6,8,9,10,11,12,17,75 |
|                   | 3           | Universal 120-277   | 51410*         | QTP3X32T8/UNVPSNSC    | 10      | 0.88           | 88/85             | 0.74/0.31            | Leads         | ☉ ☐ 2,4,6,8,9,10,11,12,17,75   |
|                   | 4           | Universal 120-277   | 51415*         | QTP4X32T8/UNVPSNSC    | 10      | 0.88           | 118/113           | 0.99/0.41            | Leads         | ☉ ☐ 2,4,6,8,9,10,11,12,17,75   |

**T8 INSTANT START, <20%THD, 8 FOOT****Normal Light Output**

Operates FO96T8 &amp; SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---------------------------------|
| FO96T8            | 2           | 120                 | 49581          | QT2X59/120IS          | 10      | 0.88           | 110               | 0.95                 | Leads         | ☉ ☐ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49582          | QT2X59/277IS          | 10      | 0.88           | 110               | 0.41                 | Leads         | ☉ ☐ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 347                 | 49217          | QT2X59/347IS          | 10      | 0.88           | 110               | 0.33                 | Leads         | ☉ 1,2,4,5,6,7,8,9,10,11,12,13   |

**High Light Output**

Operates FO96T8 &amp; SUPERSAVER® Equivalents

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes         |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|-----------------------------|
| FO96T8            |             | 120                 | 49583          | QT2X59/120PLUS        | 6       | 1.19           | 151               | 1.30                 | Leads         | ☉ ☐ 1,2,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49584          | QT2X59/277PLUS        | 6       | 1.19           | 151               | 0.56                 | Leads         | ☉ ☐ 1,2,6,7,8,9,10,11,12,13 |

**T8 INSTANT START, <10%THD, 8 FOOT**

Operates FO96T8 &amp; SUPERSAVER® Equivalents

**Normal Light Output - Universal Voltage**

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes         |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|-----------------------------|
| FO96T8            | 2           | Universal 120-277   | 49598          | QTP2x59T8/UNV-ISN-SC  | 20      | 0.88           | 112/110           | 0.93/0.40            | Leads         | ☉ ☐ 1,2,4,6,8,9,10,11,12,13 |

• Data shown is based on primary lamp type.



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**T5 LINEAR FLUORESCENT**

**T5HO PROGRAMMED START, <10%THD**

QTP1X54T5HOUNV PSN and QTP2X54T5HOUNV PSN operates FP54T5HO, FT55DL, FPC55; QTP1X3924T5HO operates FPC22, FT24DL, CF24DF, FP24T5HO, FT36DL, CF36DF, FPC40, FP39T5HO; QTP1X80T5HOUNV PSN of

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation  | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|------------------------|---------|----------------|-------------------|----------------------|---------------------|--------------------------------|
| FP24T5HO          | 1           | Universal 120-277   | 49100          | QTP1X3924T5HOUNVPSN    | 10      | 1              | 29                | 0.23/0.10            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP39T5HO          | 1           | Universal 120-277   | 49100          | QTP1X3924T5HOUNVPSN    | 10      | 1              | 42                | 0.36/0.15            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP24T5HO          | 1           | Universal 120-277   | 49101          | QTP1X3924T5HOUNVPSN NL | 20      | 1              | 29                | 0.23/0.10            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP39T5HO          | 1           | Universal 120-277   | 49101          | QTP1X3924T5HOUNVPSN NL | 20      | 1              | 42                | 0.36/0.15            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP54T5HO          | 1           | Universal 120-277   | 49120          | QTP1X54T5HOUNVPSN      | 10      | 1              | 62/60             | 0.51/0.21            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
|                   |             |                     | 49121          | QTP1X54T5HOUNVPSN NL   | 20      | 1              | 62/60             | 0.51/0.21            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP80T5HO          | 1           | Universal 120-277   | 49151          | QTP1X80T5HOUNVPSN NL   | 20      | 1              | 90                | 0.74/0.32            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP24T5HO          | 2           | Universal 120-277   | 49110          | QTP2X3924T5HOUNVPSN    | 10      | 1              | 55/54             | 0.47/0.20            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP39T5HO          | 2           | Universal 120-277   | 49110          | QTP2X3924T5HOUNVPSN    | 10      | 1              | 85/83             | 0.76/0.32            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP24T5HO          | 2           | Universal 120-277   | 49111          | QTP2X3924T5HOUNVPSN NL | 20      | 1              | 55/54             | 0.47/0.20            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP39T5HO          | 2           | Universal 120-277   | 49111          | QTP2X3924T5HOUNVPSN NL | 20      | 1              | 85/83             | 0.76/0.32            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
| FP54T5HO          | 2           | Universal 120-277   | 49130          | QTP2X54T5HOUNVPSN      | 10      | 1              | 121/118           | 1.00/0.43            | Leads               | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
|                   |             |                     | 49131          | QTP2X54T5HOUNVPSN NL   | 20      | 1              | 121/118           | 1.00/0.43            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |

**T5 PROGRAMMED START, <10% THD**

**Universal Voltage**

Operates FP14, FP21, FP28, FP35

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes            |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|--------------------------------|
| FP28T5            | 1           | Universal 120-277   | 49171          | QTP1x28T5UNVPSN NL    | 20      | 1.00           | 32                | 0.28/0.12            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |
|                   | 2           | Universal 120-277   | 49181          | QTP2X28T5UNVPSN NL    | 20      | 1.00           | 65/63             | 0.55/0.23            | Wiretrap Connectors | Ⓢ Ⓣ 1,2,4,6,8,9,10,11,12,17,23 |

**T5HO PROGRAMMED START, <10%THD**

**Discrete Voltage**

QTP1x80T5HOPSN operates FP80T5HO

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes          |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|------------------------------|
| FP80T5HO          | 1           | 120                 | 49660          | QTP1x80T5HO/120PSN-E  | 20      | 1.00           | 91                | 0.75                 | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,12,13,16 |
|                   |             | 277                 | 49670          | QTP1x80T5HO/277PSN-E  | 20      | 1.00           | 90                | 0.33                 | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,12,13,16 |

• Data shown is based on primary lamp type.

### TT5 COMPACT FLUORESCENT

#### TT5 INSTANT START, <20%THD

Operates FT40DL

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---------------------------------|
| FT40DL            | 1           | 120                 | 49641          | QT1X40/120DL          | 10      | 0.96           | 40                | 0.33                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             | 277                 | 49642          | QT1X40/277DL          |         |                |                   | 0.14                 |               |                                 |
|                   | 2           | 120                 | 49643          | QT2X40/120DL          | 10      | 0.96           | 75                | 0.63                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             |                     | 277            | 49644                 |         |                |                   | QT2X40/277DL         |               |                                 |
|                   | 3           | 120                 | 49645          | QT3X40/120DL          | 10      | 0.96           | 110               | 0.94                 | Leads         | Ⓢ Ⓣ 1,2,4,5,6,7,8,9,10,11,12,13 |
|                   |             |                     | 277            | 49646                 |         |                |                   | QT3X40/277DL         |               |                                 |

### TT5 PROGRAMMED START, <10%THD

Normal Light Output

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes          |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|------------------------------|
| FT40DL            | 1           | 120                 | 50320          | QTP1X40TT5/120PSN F   | 20      | 0.88           | 38                | 0.32                 | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,12,13,16 |
|                   |             |                     | 50330          | QTP1X40TT5/277PSN F   |         |                |                   |                      |               |                              |
|                   | 2           | 120                 | 50340          | QTP2X40TT5/120PSN F   | 20      | 0.88           | 76                | 0.63                 | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,12,13,16 |
|                   |             |                     | 50350          | QTP2X40TT5/277PSN F   |         |                |                   |                      |               |                              |
|                   | 3           | 120                 | 50360          | QTP3X40TT5/120PSN B   | 20      | 0.88           | 110               | 0.92                 | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,12,13,16 |
|                   |             |                     | 50370          | QTP3X40TT5/277PSN B   |         |                |                   |                      |               |                              |

### T4 COMPACT FLUORESCENT

#### PROGRAMMED START UNIVERSAL VOLTAGE <10% THD

| Product Number   | Ordering Abbreviation   | Pkg Qty | Primary Lamp Type | No. of Lamps | Ballast Factor | Input Voltage (VAC)  | Input Wattage (W) | Circuit Type | Wiring Method          | Symbols & Footnotes      |    |
|--|-------------------------|---------|-------------------|--------------|----------------|----------------------|-------------------|--------------|------------------------|--------------------------|----|
| 51718  | QTP 1/2X13CF/UNV BS     | 20      | 13W DD/E, T/E     | 1            | 1.0            | Universal<br>120-277 | 16                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 8,9,10,11,17,25,28   |    |
| 51778  | QTP 1/2X13CF/UNV QS     | 16      |                   | 2            | 1.0            |                      |                   |              |                        |                          |    |
| 51748  | QTP 1/2X13CF/UNV TS     | 20      |                   | 2            | 1.0            |                      |                   |              |                        |                          |    |
| 51723  | QTP 1/2X18CF/UNV BS     | 20      | 18W DD/E, T/E     | 1            | 1.0            | Universal<br>120-277 | 20                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 8,9,10,11,17,25,28   |    |
| 51783  | QTP 1/2X18CF/UNV QS     | 16      |                   | 2            | 1.0            |                      |                   |              |                        |                          |    |
| 51753  | QTP 1/2X18CF/UNV TS     | 20      |                   | 2            | 1.0            |                      |                   |              |                        |                          |    |
| 51733  | QTP 2X26CF/UNV BS       | 20      | 26W DD/E, T/E     | 1            | 1.0            | Universal<br>120-277 | 28                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 8,9,10,11,17,25,28   |    |
| 51793  | QTP 2X26CF/UNV QS       | 16      |                   | 2            | 1.0            |                      |                   |              |                        |                          |    |
| 51763  | QTP 2X26CF/UNV TS       | 20      |                   | 1            | 0.98           |                      |                   |              |                        |                          | 35 |
|  |                         | 20      |                   | 1            | 1.0            |                      |                   |              |                        |                          | 45 |
| Note: QTPx26CF/UNV models now also operate one lamp as shown above |                         |         |                   |              |                |                      |                   |              |                        |                          |    |
| 51738  | QTP 1/2XCF/UNV BM       | 20      | 26W DD/E, T/E     | 1            | 1.02           | Universal<br>120-277 | 28                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 6,8,9,10,11,17,25,28 |    |
| 51798  | QTP 1/2XCF/UNV PM       | 18      |                   | 2            | 1.02           |                      |                   |              |                        |                          | 57 |
| 51768  | QTP 1/2XCF/UNV TM       | 18      |                   | 1            | 0.97           |                      |                   |              |                        |                          | 36 |
|  |                         | 18      |                   | 1            | 1.0            |                      |                   |              |                        |                          | 46 |
| 51743  | QTP 2X26/32/42CF/UNV BM | 20      | 26W DT/E          | 2            | 1.02           | Universal<br>120-277 | 54                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 6,8,9,10,11,17,25,28 |    |
| 51803  | QTP 2X26/32/42CF/UNV PM | 18      |                   | 2            | 0.96           |                      |                   |              |                        |                          | 69 |
| 51773  | QTP 2X26/32/42CF/UNV TM | 18      |                   | 2            | 0.95           |                      |                   |              |                        |                          | 94 |
| 51740  | QT 1X57CF/UNV BM        | 20      | 57W DT/E          | 1            | 1              | Universal<br>120-277 | 62                | Series       | Wiretrap<br>Connectors | Ⓢ Ⓣ 6,8,9,10,11,17,25,28 |    |
| 51800  | QT 1X57CF/UNV PM        | 18      |                   | 1            | 0.92           |                      |                   |              |                        |                          | 71 |

\* Data shown is based on primary lamp type.


**T8 FLUORESCENT**  
**T8 DIMMING, <10%THD**

0-10V

Operates FB031, F032, FB032

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Control Setting | Wiring Method | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-----------------|---------------|---------------------------------|
| F032/XP           | 1           | 120                 | 50700          | QTP1X32T8/120DIM5 B   | 20      | 0.94           | 32                | 0.27                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   |             | 277                 | 50710          | QTP1X32T8/277DIM5 B   | 20      | 0.94           | 32                | 0.12                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   | 2           | 120                 | 50720          | QTP2X32T8/120DIM5 B   | 20      | 0.94           | 66                | 0.57                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   |             | 277                 | 50730          | QTP2X32T8/277DIM5 B   | 20      | 0.94           | 66                | 0.25                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   | 3           | 120                 | 50750          | QTP3X32T8/120DIM5-Q   | 20      | 0.88           | 93                | 0.78                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   |             | 277                 | 50760          | QTP3X32T8/277DIM5-Q   | 20      | 0.88           | 93                | 0.34                 | 100%-5%         | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   | 4           | 120                 | 50770          | QTP4X32T8/120DIM10 Q  | 20      | 0.88           | 120               | 1.10                 | 100%-10%        | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |
|                   |             | 277                 | 50780          | QTP4X32T8/277DIM10 Q  | 20      | 0.88           | 120               | 0.55                 | 100%-10%        | Leads         | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,30,31 |

**T5 LINEAR FLUORESCENT**  
**T5HO DIMMING, <10% THD**

0-10V

Operates FP54T5HO

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Control Setting | Wiring Method       | Symbols & Footnotes             |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-----------------|---------------------|---------------------------------|
| FP54T5HO          | 1           | 120                 | 49671          | QT1X54/120PHO-DIM     | 20      | 1.00           | 62                | 0.54                 | 100-1%          | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,31,32 |
|                   |             | 277                 | 49672          | QT1X54/277PHO-DIM     | 20      | 1.00           | 61                | 0.23                 | 100-1%          | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,31,32 |
|                   | 2           | 120                 | 49673          | QT2X54/120PHO-DIM     | 20      | 1.00           | 120               | 1.07                 | 100-1%          | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,31,32 |
|                   |             | 277                 | 49674          | QT2X54/277PHO-DIM     | 20      | 1.00           | 117               | 0.45                 | 100-1%          | Wiretrap Connectors | Ⓢ Ⓣ 2,4,6,8,9,10,11,13,29,31,32 |

**T8 FLUORESCENT**  
**T8 DIMMING, <10%THD**

DALI

Operates FB031, F032, FB032

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Control Setting | Wiring Method | Symbols & Footnotes     |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-----------------|---------------|-------------------------|
| F032/XP           | 1           | Universal 120-277   | 51350*         | QTP1X32T8/UNV DALI    | 25      | 1.00           | 36                | 0.31/0.13            | 100% - 1%       | Wiretrap      | Ⓢ 8,9,10,11,17,24,31,32 |
|                   |             | 2                   | 51352*         | QTP2X32T8/UNV DALI    | 25      | 1.00           | 72/70             | 0.61/0.26            | 100% - 1%       | Wiretrap      | Ⓢ 8,9,10,11,17,24,31,32 |

\* Data shown is based on primary lamp type.



**T5 LINEAR FLUORESCENT**

T5HO DIMMING, <10%THD

DALI

Operates FP54T5HO

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes     |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|-------------------------|
| FP54T5HO          | 1           | Universal 120-277   | 51364*         | QTP1X54T5HO/UNV DALI  | 25      | 1.00           | 62/61             | 0.52/0.22            | Wiretrap Connectors | ④ 8,9,10,11,17,24,31,32 |
|                   | 2           | Universal 120-277   | 51366*         | QTP2X54T5HO/UNV DALI  | 25      | 1.00           | 122/119           | 1.05/0.44            | Wiretrap Connectors | ④ 8,9,10,11,17,24,31,32 |

**T5 DIMMING, <10%THD**

DALI

Operates FP28T5

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes     |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|-------------------------|
| FP28T5            | 1           | Universal 120-277   | 51356*         | QTP1X28T5/UNV DALI    | 25      | 1.00           | 32                | 0.27/0.11            | Wiretrap Connectors | ④ 8,9,10,11,17,24,31,32 |
|                   | 2           | Universal 120-277   | 51358*         | QTP2X28T5/UNV DALI    | 25      | 1.00           | 64/62             | 0.55/0.23            | Wiretrap Connectors | ④ 8,9,10,11,17,24,31,32 |

**T12 FLUORESCENT**

T12 INSTANT START, <20%THD, 8 FOOT

Normal Light Output

Operates F60T12, F72T12, F84T12, F96T12, F96T12/SS

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes   |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---|
| F96T12            | 2           | 120                 | 49881          | QT2X96/120IS          | 10      | 0.88           | 135               | 1.20                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,5,6,7,9,10,11,13,16,32,63 |
|                   |             | 277                 | 49882          | QT2X96/277IS          | 10      | 0.88           | 135               | 0.52                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,5,6,7,9,10,11,13,16,32,63 |

**T12HO RAPID START, <20%THD, 8 FOOT**

Operates F48T12/HO, F60T12/HO, F72T12HO, F84T12/HO, F96T12HO, F96T12/HO/SS

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes   |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|---|
| F96T12/HO         | 2           | 120                 | 49883          | QT2X96/120HO          | 10      | 0.88           | 210               | 1.79                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,5,6,7,9,10,11,13,16,48,63 |
|                   |             | 277                 | 49884          | QT2X96/277HO          | 10      | 0.88           | 210               | 0.78                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,5,6,7,9,10,11,13,16,48,63 |

**T12 RAPID START, <10%THD**

Operates F40T12

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes  |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--|
| F40T12            | 1           | 120                 | 50560          | QTP1X40T12/120RSN B   | 20      | 0.875          | 38                | 0.34                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,6,8,9,10,11,13,32,34 |
|                   |             | 277                 | 50570          | QTP1X40T12/277RSN B   | 20      | 0.875          | 38                | 0.14                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,6,8,9,10,11,13,32,34 |
|                   | 2           | 120                 | 50580          | QTP2X40T12/120RSN B   | 20      | 0.84           | 69                | 0.68                 | Leads         | ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 2,4,6,8,9,10,11,13,32,34 |

\* Data shown is based on primary lamp type.

**T12 FLUORESCENT**  
T12 RAPID START, <10%THD

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes          |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|------------------------------|
| F40T12            | 2           | 277                 | 50590          | QTP2X40T12/277RSN B   | 20      | 0.835          | 68                | 0.27                 | Leads         | ☉ ☰ 2,4,6,8,9,10,11,13,32,34 |
|                   | 3           | 120                 | 50600          | QTP3X40T12/120RSN B   | 20      | 0.875          | 109               | 0.92                 | Leads         | ☉ ☰ 2,4,6,8,9,10,11,13,32,34 |
|                   |             | 277                 | 50610          | QTP3X40T12/277RSN B   | 20      | 0.865          | 105               | 0.45                 | Leads         | ☉ ☰ 2,4,6,8,9,10,11,13,32,34 |

**ICETRON® UNIVERSAL VOLTAGE**

QT1x100ICE/UNV operates ICE70, ICE100; QT1x150ICE/UNV operates ICE100, ICE150

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes                    |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|--|
| ICE70             | 1           | Universal 120-277   | 49753☉         | QT1X100ICE/UNV-T      | 5       | 1.05           | 79/77             | 0.66/0.29            | Connectors    | ☉ ☰ 4,6,8,9,10,11,17,20,63,72,76,77,88 |
| ICE100            | 1           | Universal 120-277   | 49753☉         | QT1X100ICE/UNV-T      | 5       | 1.00           | 106/103           | 0.88/0.37            | Connectors    | ☉ ☰ 4,6,8,9,10,11,17,20,63,72,76,77    |
|                   |             |                     | 49772☉         | QT1X150ICE/UNV-T      | 5       | 1.38           | 154/149           | 1.28/0.54            | Connectors    | ☉ ☰ 2,4,6,8,9,10,11,17,20,63,72,77     |
| ICE150            | 1           | Universal 120-277   | 49772☉         | QT1X150ICE/UNV-T      | 5       | 1.00           | 161/156           | 1.34/0.58            | Connectors    | ☉ ☰ 2,4,6,8,9,10,11,17,20,63,72,77     |

**METAL HALIDE****UNIVERSAL VOLTAGE**

QTP1x39MH/UNV operates (M130) PAR20, PAR30, T-6; QTP1x70MH/UNV operates (M143/M98) PAR30, PAR38, ED-17, (M139) T-6; QTP1x100MH/UNV operates (M140/M90) PAR38, ED-17

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method | Symbols & Footnotes                 |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------|-------------------------------------|
| 39W T6            | 1           | Universal 120-277   | 51940☉         | QTP 1X39MH/UNV F      | 10      | 1.00           | 45                | 0.38/0.16            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |
|                   |             |                     | 51941☉         | QTP 1X39MH/UNV J      | 10      | 1.00           | 45                | 0.38/0.16            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |
| 70W T6            | 1           | Universal 120-277   | 51942          | QTP 1X70MH/UNV F      | 10      | 1.00           | 80                | 0.68/0.29            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |
|                   |             |                     | 51943          | QTP 1X70MH/UNV J      | 10      | 1.00           | 80                | 0.68/0.29            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |
| 100W E17          | 1           | Universal 120-277   | 51944          | QTP 1X100MH/UNV F     | 10      | 1.00           | 112               | 0.95/0.40            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |
|                   |             |                     | 51945          | QTP 1X100MH/UNV J     | 10      | 1.00           | 112               | 0.95/0.40            | Leads         | ☉ ☰ 4,6,8,9,10,11,17,25,27,37,38,39 |

**T2 FLUORESCENT MINIATURE**

Operates FM6/H, FM8/H, FM11/H, FM13/H

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Wiring Method       | Symbols & Footnotes          |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|------------------------------|
| FM13/H            | 2           | Universal 120-277   | 49734☉         | QT-FM                 | 50      | 1.00           | 33                | 0.28/0.14            | Wiretrap Connectors | ☉ ☰ 1,4,6,8,9,10,11,13,24,32 |

• Data shown is based on primary lamp type.

**HOW TO READ PRODUCT INFORMATION - MAGNETIC FLUORESCENT BALLASTS**

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Power (W) | Input Current (Amps) | Symbols & Footnotes |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-----------------|----------------------|---------------------|
| F34T12            | 2           | 120                 | 48001          | MB2x40/120RS-SRNK     | 10      | 0.88           | 73              | 0.65                 | Ⓢ Ⓡ Ⓜ Ⓣ<br>1,2,3    |
| F96T12/VHO        | 2           | 120                 | 48131          | MB2x96/VHO/120RS-SRNK | 4       | 0.95           | 450             | 3.8                  | Ⓢ Ⓣ<br>1,2,3        |
| F15T12            | 1           | 120                 | 48200          | MB1x15/120PH/TP       | 16      | 0.79           | 32              | 0.60                 | Ⓢ Ⓣ<br>1,2,3        |

**HOW TO READ ORDERING ABBREVIATIONS**

| MB2x40/120RS-SRNK |                                      | MB2x96/VHO/120RS-SRNK |                                      | MB1x15/120PH-TP |                                      |
|-------------------|--------------------------------------|-----------------------|--------------------------------------|-----------------|--------------------------------------|
| <b>MB</b>         | Magnetic ballast                     | <b>MB</b>             | Magnetic ballast                     | <b>MB</b>       | Magnetic ballast                     |
| <b>2x</b>         | Number of lamps the ballast operates | <b>2x</b>             | Number of lamps the ballast operates | <b>1x</b>       | Number of lamps the ballast operates |
| <b>40</b>         | Lamp wattage or length               | <b>96</b>             | Lamp wattage or length               | <b>15</b>       | Lamp wattage or length               |
| <b>120</b>        | Input voltage                        | <b>VHO</b>            | Starting method/lamp type            | <b>120</b>      | Input voltage                        |
| <b>RS</b>         | Starting method/lamp type            | <b>120</b>            | Input voltage                        | <b>PH</b>       | Starting method/lamp type            |
| <b>SRNK</b>       | Product is Shrinkwrapped             | <b>RS</b>             | Starting method/lamp type            | <b>TP</b>       | Thermal protection                   |
|                   |                                      | <b>SRNK</b>           | Product is Shrinkwrapped             |                 |                                      |

**BALLAST CATEGORIES**

|   |   |
|---|---|
| <b>Number of lamps the ballast operates</b> | 1x, 2x  |
| <b>Input voltage</b>                        | 120, 277  |
| <b>Starting method/lamp type</b>            | IS - Instant start, RS - Rapid start, PH - Preheat/trigger start, CIRC - Circline, HO - High output, VHO - Very High Output |

Sylvania Magnetic Fluorescent ballasts are all rated for 60Hz input frequency.

**Rapid Start Ballasts**

These ballasts operate the popular 40W T12 and T8 lamps with a smooth start to ensure proper operation. A rapid start ballast removes the need for the separate starter required with pre-heat lamps and also eliminates the flicker associated with pre-heat starting.

**Slimline Ballasts**

Slimline ballasts are designed for use with single pin T12 lamps and do not require separate starters. Slimline ballasts start lamps with a high starting voltage without preheating the coils. Slimline lamps are specially constructed to utilize this starting method, and provide good system efficacy because no power is used to heat the coils.

**HO and VHO Ballasts**

HO and VHO ballasts are rapid start T12 ballasts designed to operate the High Output and Very High Output T12 lamps popular in retail and industrial environments. They come in larger versions of the standard magnetic F-Can to handle the higher power loads of these systems.

**Trigger Start Ballasts**

Trigger Start ballasts are designed to start a preheat lamp without the use of a starter.

**HO Sign Ballasts**

HO Sign ballasts are rapid start T12 ballasts designed for cold weather and outdoor applications which provide reliable performance in sign applications.

**Circline and Pre-Heat Ballasts**

These products are available for the most popular circline and pre-heat lamp types, and come in standard and thermally protected models. Pre-Heat ballasts also require the use of an external starter to ignite the lamps.

**For more information about Magnetic ballast warranties, please visit the warranty section of this catalog.**

## CERTIFICATIONS -



Depicts ballast is listed by Underwriters Laboratories Inc. in accordance with UL 1029 for HID ballasts, and UL 935 for Fluorescent ballasts.



Depicts ballast is listed by Underwriters Laboratories Inc. in accordance with UL 1029 and CAN/CSA - 22.2 No. 74 for Canada.



Depicts ballast is a recognized component by Underwriters Laboratories Inc. in accordance with UL 1029 for US and CAN/CSA - 22.2 No. 74 for Canada.



Depicts ballast is certified by the Canadian Standards Association in accordance with CAN/CSA - 22.2 No. 74-92.



Indicates SYLVANIA ballast complies with National Energy Conservation Amendments of 1988 (unless otherwise indicated).



Indicates SYLVANIA ballast complies with Canadian Energy Standards (unless otherwise indicated).

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**RAPID START**

**T12 & T10**

High Power Factor; Class A Sound Rating; MB2x30 also operates F30SS; MB1x40 also operates F40, FB40, FB40SS or F40T10; MB1x40/120RES is Normal Power Factor and operates only F40T12, F40T10, F40T8, F40T6, F40T4, F40T2, F40T1, F40T0.5

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes      |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|--------------------------|
| F30T12            | 2           | 120                 | 48409          | MB2X30/120RS-SRNK     | 10      | 0.95           | 80                | 0.67                 | Ⓢ Ⓣ 4,6,8,32,40,41,43    |
|                   |             |                     | 277            | MB2X30/277RS-SRNK     | 10      | 0.95           | 80                | 0.29                 | Ⓢ Ⓣ 4,6,8,32,40,41,43    |
| F34T12            | 1           | 120                 | 48011          | MB1X40/120RS-SRNK     | 10      | 0.91           | 44                | 0.38                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,40,41,43  |
|                   |             |                     | 277            | MB1X40/277RS-SRNK     | 10      | 0.91           | 44                | 0.16                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,40,41,43  |
|                   | 2           | 120                 | 48001          | MB2X40/120RS-SRNK     | 10      | 0.88           | 73                | 0.65                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,40,41,43  |
|                   |             |                     | 277            | MB2X40/277RS-SRNK     | 10      | 0.89           | 77                | 0.29                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,40,41,43  |
| F40T12            | 1           | 120                 | 48210          | MB1X40/120RES-SRNK    | 16      | 0.60           | 31                | 0.53                 | Ⓢ Ⓣ 4,6,8,32,40,43,44,45 |

**INSTANT START**

**T12 SLIMLINE**

High Power Factor; Class B Sound Rating; MB2x48 also operates F48T12SS; MB1x96 & MB2x96 also operates F96T12SS, F84, F72, F64 or F60

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes     |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-------------------------|
| F48T12            | 2           | 120                 | 48122          | MB2X48/120IS-SRNK     | 6       | 0.93           | 87                | 0.77                 | Ⓢ Ⓣ 4,6,8,12,41,43,46   |
|                   |             |                     | 277            | MB2X48/277IS-SRNK     | 6       | 0.93           | 88                | 0.34                 | Ⓢ Ⓣ 4,6,8,12,41,43,46   |
| F96T12            | 1           | 120                 | 48124          | MB1X96/120IS-SRNK     | 6       | 0.93           | 101               | 0.90                 | Ⓢ Ⓣ 4,6,8,32,41,43,46   |
|                   |             |                     | 277            | MB1x96/277IS-SRNK     | 6       | 0.93           | 101               | 0.39                 | Ⓢ Ⓣ 4,6,8,32,41,43,46   |
|                   | 2           | 120                 | 48018          | MB2X96/120IS-SRNK     | 6       | 0.93           | 160               | 1.39                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,41,43,46 |
|                   |             |                     | 277            | MB2X96/277IS-SRNK     | 6       | 0.93           | 162               | 0.60                 | Ⓢ Ⓣ Ⓜ 4,6,8,32,41,43,46 |

**RAPID START**

**T12HO**

High Power Factor; Class C Sound Rating; MB1x96HO and MB2x96HO also operates F96T12HOSS, F84HO, F72HO, F60HO, F48HO, F42HO, F36HO or F24HO. MB1/2x48/96HO also operates one F48HO, F60HO, F72HO, F84HO, F96HO or two F24HO or two F36HO

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes     |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-------------------------|
| F96T12/HO         | 1           | 120                 | 48127          | MB1X96/HO/120RS-SRNK  | 4       | 0.95           | 136               | 1.19                 | Ⓢ Ⓣ 4,6,8,41,43,48,49   |
|                   |             |                     | 277            | MB1X96/HO/277RS-SRNK  | 4       | 0.94           | 138               | 0.53                 | Ⓢ Ⓣ 4,6,8,41,43,48,49   |
|                   | 2           | 120                 | 48025          | MB2X96/HO/120RS-SRNK  | 4       | 0.95           | 243               | 2.05                 | Ⓢ Ⓣ Ⓜ 4,6,8,41,43,48,49 |
|                   |             |                     | 277            | MB2X96/HO/277RS-SRNK  | 4       | 0.95           | 242               | 0.90                 | Ⓢ Ⓣ Ⓜ 4,6,8,41,43,48,49 |

\* Data shown is based on primary lamp type.

**RAPID START**  
**T12HO**

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation      | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes |
|-------------------|-------------|---------------------|----------------|----------------------------|---------|----------------|-------------------|----------------------|---------------------|
| F48T12/HO         | 2           | 120                 | 48151          | MB1/2x48/96/HO/120RS-SRINK | 4       | 0.95           | 154               | 1.33                 | Ⓢ Ⓣ 4,6,8,43,48,49  |

**T12HO SIGN BALLAST**

Also operates any T12HO lamp within quantity of lamp and lamp length requirements, see [www.sylvania.com](http://www.sylvania.com) for further information

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes   |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-----------------------|
| F96T12/HO         | 1-2         | 120                 | 48225          | MSB-12-0412-TP        | 1       | 0.88           | 124               | 1.10                 | Ⓢ Ⓣ 5,6,8,48,49,52,53 |
| F72T12/HO         | 2-4         | 120                 | 48226          | MSB-24-0620-TP        | 1       | 0.92           | 266               | 2.23                 | Ⓢ Ⓣ 5,6,8,48,49,52,55 |
|                   |             |                     | 48227          | MSB-24-1224-TP        | 1       | 0.83           | 290               | 2.51                 | Ⓢ Ⓣ 5,6,8,48,49,52,57 |
| F120T12/HO        | 2-4         | 120                 | 48228          | MSB-24-2040-TP        | 1       | 0.80           | 471               | 3.96                 | Ⓢ Ⓣ 5,6,8,48,49,52,59 |
| F72T12/HO         | 4-6         | 120                 | 48229          | MSB-46-1240-TP        | 1       | 0.78           | 383               | 3.37                 | Ⓢ Ⓣ 5,6,8,48,49,52,60 |
| F96T12/HO         | 4-6         | 120                 | 48232          | MSB-46-2448-TP        | 1       | 0.85           | 588               | 4.92                 | Ⓢ Ⓣ 5,6,8,48,49,52,61 |

**COMPONENTS**
**J-BOX COVER**

Cover for Sign & F-Can Ballasts

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation                     | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes |
|-------------------|-------------|---------------------|----------------|---|---------|----------------|-------------------|----------------------|---------------------|
|                   |             |                     | 48275          | JBOXCOVER<br>(FOR SIGN AND FCAN BALLASTS) | 2       |                |                   |                      |                     |

**RAPID START**
**T12VHO**

High Power Factor; Class D Sound Rating; MB1x96VHO also operates F96T12VHOSS, F72T12VHO, F60T12VHO or F48T12VHO; MB2x96VHO also operates F96T12VHOSS or F72T12VHO

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation  | Pkg Qty                | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes   |
|-------------------|-------------|---------------------|----------------|------------------------|------------------------|----------------|-------------------|----------------------|-----------------------|
| F96T12/VHO        | 1           | 120                 | 48129          | MB1X96/VHO/120RS-SRINK | 4                      | 0.92           | 218               | 1.96                 | Ⓢ Ⓣ 4,6,8,41,43,48,49 |
|                   |             |                     | 277            | 48130                  | MB1X96/VHO/277RS-SRINK | 4              | 0.91              | 212                  | 0.81                  |
|                   | 2           | 120                 | 48131          | MB2X96/VHO/120RS-SRINK | 4                      | 0.95           | 452               | 3.80                 | Ⓢ Ⓣ 4,6,8,41,43,48,49 |
|                   |             |                     | 277            | 48132                  | MB2X96/VHO/277RS-SRINK | 4              | 0.93              | 423                  | 1.57                  |

\* Data shown is based on primary lamp type.

## PREHEAT/TRIGGER START

### T5, T8 & T12

Normal Power Factor; Class A Sound Rating; MB1x8 also operates F6T5 & F4T5; MB1x15, MB1x20 & MB2x20 operates F14T12, F15T12, F20T12, F14T8 & F15T8

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes   |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|-----------------------|
| F8T5              | 1           | 120                 | 48475          | MB1X8/120PH/TP/S      | 40      | 0.97           | 10                | 0.16                 | Ⓢ Ⓣ 4,6,8,32,43       |
| F15T12            | 1           | 120                 | 48200          | MB1X15/120PH/TP       | 16      | 0.98           | 33                | 0.69                 | Ⓢ Ⓣ 4,6,8,32,40,43,45 |
| F20T12            | 1           | 120                 | 48201          | MB1X20/120PH/TP       | 40      | 0.83           | 22                | 0.34                 | Ⓢ Ⓣ 4,6,8,32,62       |
|                   |             |                     | 48202          | MB1X20/120PH          | 40      | 0.83           | 22                | 0.34                 | Ⓢ Ⓣ 6,8,32,62         |
|                   | 2           | 120                 | 48203          | MB2X20/120PH/TP       | 16      | 0.58           | 41                | 0.47                 | Ⓢ Ⓣ 4,6,8,32,40,43    |

## RAPID START

### T8

High Power Factor; Class A Sound Rating; MB1x17 also operates FBO16; MB1x25/32-LW also operates FO25; MB1x25/32 & MB2x25/32 also operates FBO32, FBO31, FO25 & FBO24

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number        | Ordering Abbreviation | Pkg Qty | Ballast Factor        | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes |
|-------------------|-------------|---------------------|-----------------------|-----------------------|---------|-----------------------|-------------------|----------------------|---------------------|
| F017              | 1           | 120                 | 48312*                | MB1X17/120RS          | 10      | 1.05                  | 31                | 0.27                 | Ⓢ Ⓣ 4,6,8,32,40     |
| F032              | 1           | 120                 | 48096*                | MB1x25/32/120RS-LW    | 10      | 0.84                  | 33                | 0.29                 | Ⓢ Ⓣ 4,6,8,32,40     |
|                   |             |                     | 48240*                | MB1X25/32/120RS-SR NK | 10      | 0.94                  | 44                | 0.39                 | Ⓢ Ⓣ 4,6,8,32,40,43  |
| F032              | 1           | 277                 | 48241*                | MB1X25/32/277RS-SR NK | 10      | 0.93                  | 43                | 0.16                 | Ⓢ Ⓣ 4,6,8,32,40,43  |
|                   |             |                     | 2                     | 120                   | 48242*  | MB2X25/32/120RS-SR NK | 10                | 0.94                 | 74                  |
|                   | 277         | 48243*              | MB2X25/32/277RS-SR NK | 10                    | 0.93    | 75                    | 0.28              | Ⓢ Ⓣ 4,6,8,32,40,43   |                     |

## T9 CIRCLINE

Normal Power Factor; Class A Sound Rating; MB1x32 also operates FC16T9

| Primary Lamp Type | No of Lamps | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | Ballast Factor | Input Wattage (W) | Input Current (Amps) | Symbols & Footnotes |
|-------------------|-------------|---------------------|----------------|-----------------------|---------|----------------|-------------------|----------------------|---------------------|
| FC8T9             | 1           | 120                 | 48230          | MB1X22/120CIRC        | 16      | 0.82           | 29                | 0.63                 | Ⓢ Ⓣ 4,6,8,32,40,43  |
| FC12T9            | 1           | 120                 | 48231          | MB1X32/120CIRC        | 16      | 0.62           | 31                | 0.61                 | Ⓢ Ⓣ 4,6,8,32,40,43  |

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\* Data shown is based on primary lamp type.

## HOW TO READ PRODUCT INFORMATION - MAGNETIC HID BALLAST

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Power (W) | Max. Input Current (Amps)     | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-----------------|-------------------------------|----------------------|--------------|---------------------|
| M250PS            | 120/208/240/277/480 | 47282          | M250/SUPER5-PS-KIT    | 1       | M138      | 288             | 250/1.40<br>1.30/1.10<br>0.65 | 290                  | CWA          | 20,22, 24,25        |
| H100              | 120/208/240/277     | 46522          | H100-MULTI-KIT        | 1       | H38       | 120             | 1.05/0.60<br>0.52/0.45        | 250                  | CWA          | 20,22, 24,25        |
| LU100             | 120                 | 47304          | LU100/120R            | 1       | S54       | 120             | 2.70                          | 120                  | Reactor/NPF  | 21,22               |

### Circuit Type

CWA - Constant wattage autotransformer, CWI - Constant wattage isolated, HX-HPF - (Autolag) High reactance autotransformer, R-NPF - Reactor normal power factor

## HOW TO READ ORDERING ABBREVIATIONS

| M250/SUPER5-PS-KIT |                                 | H100-MULTI-KIT |                         | LU100/120R |  |
|--------------------|---------------------------------|----------------|-------------------------|------------|--|
| M                  | Lamp Type-METALARC Metal Halide | H              | Lamp Type-Mercury       | LU         | Lamp Type-LUMALUX High Pressure Sodium |
| 250                | Lamp wattage                    | 100            | Lamp wattage            | 100        | Lamp wattage                           |
| SUPER5             | Input Voltage                   | MULTI          | Input Voltage           | 120        | Input Voltage                          |
| PS                 | Pulse Start                     | KIT            | Packaging configuration | R          | Ballast Type-Reactor Ballast           |
| KIT                | Packaging configuration         |                |                         |            |  |

## BALLAST CATEGORIES

**Lamp type** M-METALARC metal halide, LU-LUMALUX High Pressure Sodium, H-Mercury

**Input voltage** Super5 - 120/208/240/277/480; Multi-120/208/240/277; 120/240; 120; 277; 480; 480/120T (480/120TAP)

SYLVANIA HID Ballasts are available in easy-to-use replacement kits for the range of metal halide, high pressure sodium and mercury lamps. These ballast kits help to eliminate the hassles of identifying what's required for a replacement or upgrade by providing an array of components in each kit. New Super5 Kits can be used for multiple taps styles 120/208/240/277 & 480V application minimizing hassles associated with selecting the wrong voltage product. All are rated for 60Hz input frequency and utilize dry film capacitors where applicable.

### METALARC® Metal Halide Magnetic Ballast Kits

Named for SYLVANIA METALARC lamps, these kits include core and coil, capacitors, ignitor. Available for a broad range of metal halide and pulse start metal halide lamps, most kits are labeled with the appropriate combinations.

### METALARC Indoor Enclosed HID Ballasts

New Indoor Enclosed ballasts for indoor applications where remote mounting is required. For mounting and minimal noise.

### F-Can HID Ballasts

New F-Can ballasts for indoor applications operate a range of metal halide, pulse start metal in a fluorescent can type ballast and are thermally protected.

### LUMALUX® High Pressure Sodium Magnetic Ballast Kits

These kits, named for the SYLVANIA LUMALUX high pressure sodium lamps, include core and coil, capacitors, ignitors, brackets and mounting hardware.

### LUMALUX High Pressure Sodium Reactor Ballasts

Available for low wattage lamps, these ballasts are the simple reactor ballasts popular for 120V applications. Power factor correction capacitors are available for installations requiring higher power factors than normal.

### MERCURY Magnetic Ballast Kits

These kits are available for the array of available mercury lamps and include core and coil, capacitor, brackets and mounting hardware. Some models also offer dual lamp capability.

For more information about Magnetic ballast warranties, please visit the warranty section of this catalog.

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**METALARC® METAL HALIDE  
CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps)     | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|--------------------------|----------------------|--------------|---------------------|
| M175              | 120/208/240/277/480 | 47243          | M175/SUPER5-KIT       | 1       | M57, H39  | 210               | 1.96/1.15/1.00/0.86/0.54 | 305                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/208/240/277     | 47735          | M175/MULTI-KIT        | 1       | M57, H39  | 210               | 1.80/1.04/0.90/0.78      | 305                  | CWA          | ⚡-8,4,20,48,65      |
|                   | 480                 | 47035          | M175/480-KIT          | 1       | M57, H39  | 210               | 0.54                     | 305                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480/120TAP          | 47253          | M175/480/120T-KIT     | 1       | M57, H39  | 210               | 0.54                     | 305                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/277             | 47254          | M175/120/277-KIT      | 1       | M57, H39  | 210               | 1.80/0.78                | 305                  | CWA          | ⚡-8,14,20,48,65     |
| M250              | 120/208/240/277/480 | 47265          | M250/SUPER5-KIT       | 1       | M58, H37  | 290               | 2.50/1.45/1.25/1.10/0.63 | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/208/240/277     | 47737          | M250/MULTI-KIT        | 1       | M58, H37  | 290               | 2.50/1.45/1.25/1.10      | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480                 | 47611          | M250/480-KIT          | 1       | M58, H37  | 290               | 0.63                     | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480/120TAP          | 47268          | M250/480/120T-KIT     | 1       | M58, H37  | 290               | 0.63                     | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/208/240/277     | 47049          | M250/MULTI 3X4-KIT    | 1       | M58, H37  | 294               | 3.16/2.15/1.60/1.40      | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480                 | 47050          | M250/480-3X4-KIT      | 1       | M58, H37  | 294               | 0.86                     | 300                  | CWA          | ⚡-8,14,20,48,65     |
| M400              | 120/208/240/277/480 | 47338          | M400/SUPER5-KIT       | 1       | M59, H33  | 458               | 4.00/2.30/2.00/1.70/1.00 | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/208/240/277     | 47739          | M400/MULTI-KIT        | 1       | M59, H33  | 458               | 4.00/2.30/2.00/1.70      | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480                 | 47065          | M400/480-KIT          | 1       | M59, H33  | 458               | 1.00                     | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480/120TAP          | 47394          | M400/480/120T-KIT     | 1       | M59, H33  | 458               | 1.00                     | 300                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/240             | 47075          | M2X400/120/240-KIT    | 1       | M59, H33  | 880               | 7.90/3.95                | 630                  | CWA          | ⚡-8,14,20,48,65     |
| M1000             | 120/208/240/277/480 | 47427          | M1000/SUPER5-KIT      | 1       | M47, H36  | 1080              | 9.20/5.30/4.60/4.00/2.30 | 420                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 120/208/240/277     | 47744          | M1000/MULTI-KIT       | 1       | M47, H36  | 1080              | 9.00/5.20/4.50/3.90      | 421                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480                 | 47655          | M1000/480-KIT         | 1       | M47, H36  | 1080              | 2.30                     | 421                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480/120TAP          | 47432          | M1000/480/120T-KIT    | 1       | M47, H36  | 1080              | 2.30                     | 421                  | CWA          | ⚡-8,14,20,48,65     |
| M1500             | 120/208/240/277     | 46808          | M1500/MULTI-KIT       | 1       | M48       | 1605              | 13.50/7.80/6.75/5.85     | 435                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480                 | 47095          | M1500/480-KIT         | 1       | M48       | 1605              | 3.50                     | 435                  | CWA          | ⚡-8,14,20,48,65     |
|                   | 480/120TAP          | 47434          | M1500/480/120T-KIT    | 1       | M48       | 1605              |                          |                      | CWA          | ⚡-8,14,20,48,65     |

**PULSE START CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| M39               | 120/208/240/277     | 47001          | M35/MULTI-HQ/CI-KIT   | 1       | M130      | 58                | 0.50/0.29/0.25/0.22  | 215                  | CWA          | ⚡-8,14,20,48,50,65  |
|                   | 120/277             | 47203          | M35/120/277-KIT       | 1       | M130      | 54                | 1.02/0.45            | 235                  | HX-HPF       | ⚡-8,14,20,48,50,65  |
| M50               | 120/208/240/277     | 47007          | M50/MULTI-KIT         | 1       | M110      | 67                | 1.33/0.77/0.68/0.58  | 250                  | HX-HPF       | ⚡-8,14,20,48,50,65  |
|                   | 120/277             | 47204          | M50/120/277-KIT       | 1       | M110      | 67                | 1.33/0.58            | 250                  | HX-HPF       | ⚡-8,14,20,48,50,65  |
| M70               | 120/208/240/277     | 47013          | M70/MULTI-KIT         | 1       | M98       | 95                | 1.70/0.96/0.83/0.72  | 250                  | HX-HPF       | ⚡-8,14,20,48,50,65  |

• Data shown is based on primary lamp type.

**METALARC® METAL HALIDE**  
**PULSE START CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code            | Input Wattage (W) | Input Current (Amps)     | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|----------------------|-------------------|--------------------------|----------------------|--------------|---------------------|
| M70               | 120/277             | 47217          | M70/120/277-KIT       | 1       | M98                  | 95                | 1.70/1.72                | 250                  | HX-HPF       | 8,14,20,48,50,65    |
|                   | 120/208/240/277     | 47645          | M70/MULTI-HQ/CI-KIT   | 1       | M98, M85, M139, M143 | 95                | 0.94/0.55/0.48/0.41      | 215                  | CWA          | 8,14,20,48,50,65    |
| M100              | 120/208/240/277     | 47019          | M100/MULTI-KIT        | 1       | M90                  | 130               | 2.16/1.25/1.10/0.95      | 250                  | HX-HPF       | 8,14,20,48,50,65    |
|                   | 120/277             | 47219          | M100/120/277-KIT      | 1       | M90                  | 130               | 2.16/0.95                | 250                  | HX-HPF       | 8,14,20,48,50,65    |
| M150              | 120/208/240/277     | 47682          | M150/MULTI-PS-KIT     | 1       | M102                 | 185               | 3.60/2.06/1.78/1.55      | 260                  | HX-HPF       | 8,14,20,48,50,65    |
|                   | 240/277             | 47640          | M150/MULTI-PS-CWA-KIT | 1       | M81, M102, M142      | 189               | 1.80/1.03/0.90/0.78      | 215                  | CWA          | 8,14,20,48,50,65    |
|                   | 120/277             | 47228          | M150/120/277-PS-KIT   | 1       | M102                 | 185               | 3.60/1.55                | 260                  | HX-HPF       | 8,14,20,48,50,65    |
|                   | 120/208/240/277     | 47229          | M150/MULTI-KIT        | 1       | M81                  | 185               | 3.60/2.05/1.80/1.55      | 245                  | HX-HPF       | 8,14,20,48,50,65    |
| M175/PS           | 120/208/240/277     | 47686          | M175/MULTI-PS-KIT     | 1       | M137, M152           | 208               | 1.80/1.10/0.90/0.80      | 275                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 46801          | M175/480-PS-KIT       | 1       | M137, M152           | 208               | 0.50                     | 275                  | CWA          | 8,14,20,48,50,65    |
| M200/PS           | 120/208/240/277     | 47690          | M200/MULTI-PS-KIT     | 1       | M136                 | 232               | 2.00/1.20/1.00/0.90      | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 46802          | M200/480-PS-KIT       | 1       | M136                 | 232               | 0.50                     | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480/120TAP          | 47259          | M200/480/120T-PS-KIT  | 1       | M136                 | 232               | 0.50                     | 270                  | CWA          | 8,14,20,48,50,65    |
| HQI250            | 120/277             | 47273          | M250/120/277-KIT      | 1       | M80                  | 290               | 5.50/2.30                | 240                  | HX-HPF       | 8,14,20,48,50,65    |
| M250/PS           | 120/208/240/277/480 | 47282          | M250/SUPER5-PS-KIT    | 1       | M138, M153           | 288               | 2.50/1.40/1.30/1.10/0.65 | 290                  | CWA          | 8,14,20,48,50,65    |
|                   | 120/208/240/277     | 47112          | M250/MULTI-PS-KIT     | 1       | M138, M153           | 288               | 2.50/1.40/1.30/1.10      | 280                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 47106          | M250/480-PS-KIT       | 1       | M138, M153           | 288               | 0.65                     | 290                  | CWA          | 8,14,20,48,50,65    |
|                   | 480/120TAP          | 47283          | M250/480/120T-PS-KIT  | 1       | M138, M153           | 288               | 0.65                     | 290                  | CWA          | 8,14,20,48,50,65    |
| M320/PS           | 120/208/240/277     | 47676          | M320/MULTI-PS-KIT     | 1       | M132                 | 368               | 3.2/1.9/1.62/1.4         | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 46803          | M320/480-PS-KIT       | 1       | M132, M154           | 368               | 0.90                     | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480/120TAP          | 47303          | M320/480/120T-PS-KIT  | 1       | M132, M154           | 368               | 1.90                     | 270                  | CWA          | 8,14,20,48,50,65    |
| M350/PS           | 120/208/240/277     | 47695          | M350/MULTI-PS-KIT     | 1       | M131                 | 400               | 3.40/2.00/1.70/1.50      | 275                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 47697          | M350/480-PS-KIT       | 1       | M131                 | 400               | 0.90                     | 275                  | CWA          | 8,14,20,48,50,65    |
|                   | 480/120TAP          | 47337          | M350/480/120T-PS-KIT  | 1       | M131                 | 400               | 0.90                     | 275                  | CWA          | 8,14,20,48,50,65    |
| M400/PS           | 120/208/240/277/480 | 47400          | M400/SUPER5-PS-KIT    | 1       | M135, M155           | 452               | 3.80/2.20/1.90/1.70/1.00 | 275                  | CWA          | 8,14,20,48,50,65    |
|                   | 120/208/240/277     | 47132          | M400/MULTI-PS-KIT     | 1       | M135, M155           | 452               | 3.80/2.20/1.90/1.70      | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 47138          | M400/480-PS-KIT       | 1       | M135, M155           | 452               | 1.00                     | 270                  | CWA          | 8,14,20,48,50,65    |
|                   | 480/120TAP          | 47403          | M400/480/120T-PS-KIT  | 1       | M135, M155           | 452               | 1.00                     | 275                  | CWA          | 8,14,20,48,50,65    |
| M450/PS           | 120/208/240/277     | 47405          | M450/MULTI-PS-KIT     | 1       | M144                 | 508               | 4.30/2.50/2.20/1.90      | 275                  | CWA          | 8,14,20,48,50,65    |
|                   | 480                 | 46804          | M450/480-PS-KIT       | 1       | M144                 | 512               | 1.10                     | 275                  | CWA          | 8,14,20,48,50,65    |

• Data shown is based on primary lamp type.

**METALARC® METAL HALIDE  
PULSE START CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation        | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|------------------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| M450/PS           | 480/120TAP          | 47408          | M450/480/120T-PS-KIT         | 1       | M144      | 505               | 1.10                 | 275                  | CWA          | Ⓢ 8,14,20,48,50,65  |
| M750/PS           | 120/208/240/277     | 47717          | M750/MULTI-PS-KIT            | 1       | M149      | 818               | 7.00/4.00/3.50/3.00  | 360                  | CWA          | Ⓢ 8,14,20,48,50,65  |
|                   | 120/277/347/480     | 47409          | M750/120/277/347/480-PS-KIT  | 1       | M149      | 818               | 7.00/3.00/2.45/1.75  | 360                  | CWA          | Ⓢ 8,14,20,48,50,65  |
|                   | 480                 | 47718          | M750/480-PS-KIT              | 1       | M149      | 818               | 1.75                 | 360                  | CWA          | Ⓢ 8,14,20,48,50,65  |
| M1000/PS          | 120/208/240/277     | 47416          | M1000/MULTI-PS-KIT           | 1       | M141      | 1080              | 9.00/5.20/4.50/3.90  | 421                  | CWA          | Ⓢ 8,14,20,48,50,65  |
|                   | 120/277/347/480     | 47417          | M1000/120/277/347/480-PS-KIT | 1       | M141      | 1080              | 9.00/3.90/3.20/2.40  | 421                  | CWA          | Ⓢ 8,14,20,48,50,65  |
|                   | 480                 | 46805          | M1000/480-PS-KIT             | 1       | M141      | 1080              | 2.30                 | 421                  | CWA          | Ⓢ 8,14,20,48,50,65  |
| HQI2000           | 277/347/480         | 47090          | M2000/277/347/480-HQI-RL-KIT | 1       |           | 2200              | 8.50/6.60/4.90       | 370                  | Reg. Lag     | Ⓢ 8,14,20,48,50,65  |

**F-CAN**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| M175              | 120/277             | 47743          | M175/120/277/F-CAN    | 1       | M57, H39  | 205               | 1.75/0.75            | 310                  | CWA          | Ⓢ 6,8,33,48,68,69   |
| M250              | 120/277             | 47751          | M250/120/277/F-CAN    | 1       | M58, H37  | 295               | 2.60/1.10            | 310                  | CWA          | Ⓢ 6,8,33,48,68,69   |
| M400              | 120/277             | 47759          | M400/120/277/F-CAN    | 1       | M59, H33  | 460               | 3.90/1.70            | 300                  | CWA          | Ⓢ 6,8,47,48,68,69   |

**PULSE START F-CAN**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code       | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes  |
|-------------------|---------------------|----------------|-----------------------|---------|-----------------|-------------------|----------------------|----------------------|--------------|----------------------|
| M39               | 120/277             | 47680          | M35/120/277/F-CAN     | 1       | M130            | 54                | 1.05/0.45            | 235                  | HX-HPF       | Ⓢ 6,8,11,48,50,68,69 |
| M50               | 120/277             | 47195          | M50/120/277/F-CAN     | 1       | M110            | 67                | 1.33/0.58            | 250                  | HX-HPF       | Ⓢ 6,8,33,48,50,68,69 |
| M70               | 120/277             | 47693          | M70/120/277/F-CAN     | 1       | M139            | 95                |                      |                      | HX-HPF       | Ⓢ 6,8,48,50,68,69    |
|                   |                     | 47694          | M70/120/277/F-CAN     | 1       | M98, M143, M139 | 94                | 1.95/0.85            | 250                  | HX-HPF       | Ⓢ 6,8,33,48,50,68,69 |
| M100              | 120/277             | 47734          | M100/120/277/F-CAN    | 1       | M90             | 125               | 2.50/1.07            | 260                  | HX-HPF       | Ⓢ 6,8,33,48,50,68,69 |
| M150              | 120/277             | 47738          | M150-PS/120/277/F-CAN | 1       | M102            | 180               |                      |                      | CWA          | Ⓢ 6,8,48,50,68,69    |
| M175/PS           | 120/277             | 47741          | M175-PS/120/277/F-CAN | 1       | M137            | 205               |                      |                      | CWA          | Ⓢ 6,8,48,50,68,69    |
| M200/PS           | 120/277             | 47747          | M200-PS/120/277/F-CAN | 1       | M136            | 232               |                      |                      | CWA          | Ⓢ 6,8,48,50,68,69    |
| M250/PS           | 120/277             | 47749          | M250-PS/120/277/F-CAN | 1       | M138, M153      | 295               | 2.70/1.17            | 300                  | CWA          | Ⓢ 6,8,33,48,50,68,69 |
| M320/PS           | 120/277             | 47753          | M320-PS/120/277/F-CAN | 1       | M132, M154      | 375               | 3.35/1.46            | 300                  | CWA          | Ⓢ 6,8,47,48,50,68,69 |
| M400/PS           | 120/277             | 47757          | M400-PS/120/277/F-CAN | 1       | M135, M155      | 465               | 4.10/1.80            | 285                  | CWA          | Ⓢ 6,8,47,48,50,68,69 |

**INDOOR ENCLOSED**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| M175              | 120/208/240/277     | 47153          | M175/MULTI-ID         | 1       | M57, H39  | 210               | 1.80/1.04/0.90/0.78  | 305                  | CWA          | Ⓢ 6,8,48,71         |

• Data shown is based on primary lamp type.

**METALARC® METAL HALIDE**  
**INDOOR ENCLOSED**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| M250              | 120/208/240/277     | 47158          | M250/MULTI-I/D        | 1       | M58, H37  | 290               | 2.50/1.45/1.25/1.10  | 300                  | CWA          | Ⓢ 6,8,48,71         |
| M400              | 120/208/240/277     | 47172          | M400/MULTI-I/D        | 1       | M59, H33  | 458               | 4.00/2.30/2.00/1.70  | 300                  | CWA          | Ⓢ 6,8,48,71         |
| M1000             | 120/208/240/277     | 47207          | M1000/MULTI-I/D       | 1       | M47, H36  | 1080              | 9.00/5.20/4.50/3.90  | 421                  | CWA          | Ⓢ 6,8,48,71         |

**LUMALUX® HIGH PRESSURE SODIUM**  
**CORE & COIL REACTOR**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| LU35              | 120                 | 47269          | LU35/120R             | 12      | S76       | 45                | 1.10                 | 120                  | R-NPF        | Ⓢ 8,50,65,72        |
|                   |                     | 47537          | LU35/120R-INT         | 12      | S76       | 45                | 1.10                 | 120                  | R-NPF        | Ⓢ 8,50,65,72,73     |
| LU50              | 120                 | 47274          | LU50/120R             | 12      | S68       | 60                | 1.45                 | 120                  | R-NPF        | Ⓢ 8,50,65,72        |
|                   |                     | 47548          | LU50/120R-INT         | 12      | S68       | 60                | 1.45                 | 120                  | R-NPF        | Ⓢ 8,50,65,72,73     |
| LU70              | 120                 | 47284          | LU70/120R             | 12      | S62       | 81                | 1.95                 | 120                  | R-NPF        | Ⓢ 8,50,65,72        |
|                   |                     | 47558          | LU70/120R-INT         | 12      | S62       | 81                | 1.95                 | 120                  | R-NPF        | Ⓢ 8,50,65,72,73     |
| LU100             | 120                 | 47304          | LU100/120R            | 12      | S54       | 120               | 2.70                 | 120                  | R-NPF        | Ⓢ 8,50,65,72        |
|                   |                     | 47585          | LU100/120R-INT        | 12      | S54       | 120               | 2.70                 | 120                  | R-NPF        | Ⓢ 8,50,65,72,73     |
| LU150             | 120                 | 47319          | LU150/120R            | 12      | S55       | 170               | 4.10                 | 120                  | R-NPF        | Ⓢ 8,50,65,72        |
|                   |                     | 47616          | LU150/120R-INT        | 12      | S55       | 170               | 4.10                 | 120                  | R-NPF        | Ⓢ 8,50,65,72,73     |

**CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty            | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |                    |
|-------------------|---------------------|----------------|-----------------------|--------------------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|--------------------|
| LU35              | 120/240             | 47271          | LU35/120/240-KIT      | 1                  | S76       | 55                |                      |                      | HX-HPF       | Ⓢ 8,14,20,50,65,72  |                    |
| LU50              | 120/277             | 47549          | LU50/120/277-KIT      | 1                  | S68       | 66                | 1.05/0.45            | 120                  | HX-HPF       | Ⓢ 8,14,20,50,65,72  |                    |
| LU70              | 120/208/240/277     | 47301          | LU70/MULTI-KIT        | 1                  | S62       | 91                | 1.43/0.85/0.72/0.62  | 120                  | HX-HPF       | Ⓢ 8,14,20,50,65,72  |                    |
|                   |                     | 480            | 47579                 | LU70/480-KIT       | 1         | S62               | 91                   | 0.35                 | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
|                   |                     | 120/277        | 47571                 | LU70/120/277-KIT   | 1         | S62               | 91                   | 1.43/0.62            | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
| LU100             | 120/208/240/277     | 47316          | LU100/MULTI-KIT       | 1                  | S54       | 128               | 2.00/1.16/1.00/0.87  | 120                  | HX-HPF       | Ⓢ 8,14,20,50,65,72  |                    |
|                   |                     | 480            | 47593                 | LU100/480-KIT      | 1         | S54               | 128                  | 0.50                 | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
|                   |                     | 120/277        | 47592                 | LU100/120/277-KIT  | 1         | S54               | 128                  | 2.00/0.87            | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
| LU150             | 120/208/240/277     | 47335          | LU150/MULTI-KIT       | 1                  | S55       | 188               | 2.81/1.65/1.45/1.25  | 120                  | HX-HPF       | Ⓢ 8,14,20,50,65,72  |                    |
|                   |                     | 480            | 47619                 | LU150/480-KIT      | 1         | S55               | 188                  | 0.80                 | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
|                   |                     | 480/120TAP     | 47621                 | LU150/480/120T-KIT | 1         | S55               | 190                  |                      |              | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
|                   |                     | 120/277        | 47617                 | LU150/120/277-KIT  | 1         | S55               | 188                  | 2.81/1.25            | 120          | HX-HPF              | Ⓢ 8,14,20,50,65,72 |
|                   |                     | 480            | 47623                 | LU150/480-CWA-KIT  | 1         | S55               | 185                  | 0.40                 | 110          | CWA                 | Ⓢ 8,14,20,50,65,72 |
| LU200             | 120/208/240/277     | 47628          | LU200/MULTI-KIT       | 1                  | S66       | 230               | 1.96/1.13/0.98/0.85  | 182                  | CWA          | Ⓢ 8,14,20,50,65,72  |                    |

• Data shown is based on primary lamp type.

**LUMALUX® HIGH PRESSURE SODIUM  
CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC)     | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps)         | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|-------------------------|----------------|-----------------------|---------|-----------|-------------------|------------------------------|----------------------|--------------|---------------------|
| LU200             | 480                     | 47631          | LU200/480-KIT         | 1       | S66       | 230               | 0.50                         | 182                  | CWA          | Ⓜ-8,14,20,50,65,72  |
| LU250             | 120/208/<br>240/277/480 | 47634          | LU250/SUPER5-KIT      | 1       | S50       | 295               | 2.50/1.50/<br>1.30/1.10/0.65 | 190                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 120/208/<br>240/277     | 47357          | LU250/MULTI-KIT       | 1       | S50       | 295               | 2.50/1.50/<br>1.30/1.10      | 185                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480                     | 47358          | LU250/480-KIT         | 1       | S50       | 295               | 0.65                         | 185                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480/120TAP              | 47637          | LU250/480/120T-KIT    | 1       | S50       | 295               |                              |                      | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 120/277                 | 47642          | LU250/120/277-KIT     | 1       | S50       | 295               | 2.50/1.10                    | 185                  | CWA          | Ⓜ-8,14,20,50,65,72  |
| LU310             | 120/208/<br>240/277     | 47643          | LU310/MULTI-KIT       | 1       | S67       | 355               | 3.00/1.73/<br>1.50/1.30      | 185                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480                     | 47644          | LU310/480-KIT         | 1       | S67       | 355               | 0.75                         | 185                  | CWA          | Ⓜ-8,14,20,50,65,72  |
| LU400             | 120/208/<br>240/277/480 | 47647          | LU400/SUPER5-KIT      | 1       | S51       | 464               | 3.80/2.20/<br>1.90/1.70/1.00 | 190                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 120/208/<br>240/277     | 47364          | LU400/MULTI-KIT       | 1       | S51       | 464               | 3.90/2.25/<br>1.95/1.70      | 190                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480                     | 47376          | LU400/480-KIT         | 1       | S51       | 464               | 1.00                         | 190                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480/120TAP              | 47657          | LU400/480/120T-KIT    | 1       | S51       | 465               |                              |                      | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 120/277                 | 47656          | LU400/120/277-KIT     | 1       | S51       | 464               | 3.90/1.70                    | 190                  | CWA          | Ⓜ-8,14,20,50,65,72  |
| LU750             | 120/208/<br>240/277     | 47712          | LU750/MULTI-KIT       | 1       | S111      | 830               | 6.80/4.00/<br>3.50/3.10      | 220                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480                     | 47658          | LU750/480-KIT         | 1       | S111      | 830               | 1.75                         | 220                  | CWA          | Ⓜ-8,14,20,50,65,72  |
| LU1000            | 120/208/<br>240/277/480 | 47659          | LU1000/SUPER5-KIT     | 1       | S52       | 1100              | 9.50/5.50/<br>4.70/4.10/2.40 | 440                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 120/208/<br>240/277     | 47389          | LU1000/MULTI-KIT      | 1       | S52       | 1100              | 9.50/5.50/<br>4.80/4.10      | 435                  | CWA          | Ⓜ-8,14,20,50,65,72  |
|                   | 480                     | 47391          | LU1000/480-KIT        | 1       | S52       | 1100              | 2.40                         | 435                  | CWA          | Ⓜ-8,14,20,50,65,72  |

**F-CAN**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes  |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|----------------------|
| LU35              | 120/277             | 47761          | LU35/120/277/F-CAN    | 1       | S76       | 47                | 0.80/0.35            | 120                  | HX-HPF       | Ⓜ 6,8,33,50,68,69,72 |
| LU50              | 120/277             | 47762          | LU50/120/277/F-CAN    | 1       | S68       | 65                | 1.05/0.46            | 125                  | HX-HPF       | Ⓜ 6,8,33,50,68,69,72 |
| LU70              | 120/277             | 47763          | LU70/120/277/F-CAN    | 1       | S62       | 90                | 1.50/0.65            | 120                  | HX-HPF       | Ⓜ 6,8,33,50,68,69,72 |
| LU100             | 120/277             | 47764          | LU100/120/277/F-CAN   | 1       | S54       | 125               | 1.95/0.85            | 120                  | HX-HPF       | Ⓜ 6,8,33,50,68,69,72 |
| LU150             | 120/277             | 47765          | LU150/120/277/F-CAN   | 1       | S55       | 185               | 3.05/1.32            | 120                  | HX-HPF       | Ⓜ 6,8,33,50,68,69,72 |
| LU250             | 120/277             | 47777          | LU250/120/277/F-CAN   | 1       | S50       | 298               |                      |                      | CWA          | Ⓜ 6,8,50,68,69,72    |

**MERCURY VAPOR  
CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps)    | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|-------------------------|----------------------|--------------|---------------------|
| H46               | 120/208/<br>240/277 | 46518          | H50/MULTI-KIT         | 1       | H46       | 68                | 0.60/0.35/<br>0.30/0.26 | 235                  | CWA          | Ⓜ-8,14,20,48,65     |

• Data shown is based on primary lamp type.

**MERCURY VAPOR  
CORE & COIL KITS**

| Primary Lamp Type | Input Voltage (VAC) | Product Number | Ordering Abbreviation | Pkg Qty | ANSI Code | Input Wattage (W) | Input Current (Amps) | Open Circuit Voltage | Circuit Type | Symbols & Footnotes |
|-------------------|---------------------|----------------|-----------------------|---------|-----------|-------------------|----------------------|----------------------|--------------|---------------------|
| H43               | 120/208/240/277     | 46519          | H75/MULTI-KIT         | 1       | H43       | 92                | 0.80/0.46/0.40/0.35  | 250                  | CWA          | 8,14,20,48,65       |
| H38/H44           | 120/208/240/277     | 46522          | H100/MULTI-KIT        | 1       | H38, H44  | 120               | 1.05/0.60/0.52/0.45  | 250                  | CWA          | 8,14,20,48,65       |
|                   | 277                 | 47472          | H100/277-KIT          | 1       | H38, H44  | 120               | 0.45                 | 250                  | CWA          | 8,14,20,48,65       |
|                   | 120/240             | 47471          | H100/DUAL-KIT         | 1       | H38, H44  | 120               | 1.05/0.52            | 250                  | CWA          | 8,14,20,48,65       |
| H39               | 120/208/240/277     | 47489          | H175/MULTI-KIT        | 1       | H39       | 205               | 1.85/1.10/0.92/0.80  | 250                  | CWA          | 8,14,20,48,65       |
|                   | 480                 | 47490          | H175/480-KIT          | 1       | H39       | 205               | 0.45                 | 250                  | CWA          | 8,14,20,48,65       |
| H37               | 120/208/240/277     | 47499          | H250/MULTI-KIT        | 1       | H37       | 285               | 2.55/1.5/1.27/1.1    | 260                  | CWA          | 8,14,20,48,65       |
|                   | 480                 | 47500          | H250/480-KIT          | 1       | H37       | 285               | 0.62                 | 270                  | CWA          | 8,14,20,48,65       |
|                   | 480/120TAP          | 46531          | H250/480/120T-KIT     | 1       | H37       | 285               | 0.62                 | 270                  | CWA          | 8,14,20,48,65       |
| H33               | 120/208/240/277     | 47509          | H400/MULTI-KIT        | 1       | H33       | 455               |                      |                      | CWA          | 8,14,20,48,65       |
|                   | 480                 | 47510          | H400/480-KIT          | 1       | H33       | 454               | 1.00                 | 250                  | CWA          | 8,14,20,48,65       |
|                   | 480/120TAP          | 46533          | H400/480/120T-KIT     | 1       | H33       | 454               | 1.00                 | 250                  | CWA          | 8,14,20,48,65       |
|                   | 120                 | 47517          | H2X400/120-KIT        | 1       | H33       | 880               | 7.8                  | 495                  | CWA          | 8,14,20,48,65       |
|                   | 277                 | 47518          | H2X400/277-KIT        | 1       | H33       | 880               | 3.38                 | 495                  | CWA          | 8,14,20,48,65       |
| H36               | 120/208/240/277     | 47524          | H1000/MULTI-KIT       | 1       | H36       | 1080              | 9.2/5.36/4.6/4.0     | 420                  | CWA          | 8,14,20,48,65       |
|                   | 480                 | 47525          | H1000/480-KIT         | 1       | H36       | 1080              | 2.3                  | 420                  | CWA          | 8,14,20,48,65       |

**COMPONENTS****CAPACITORS**

Replacement capacitors for SYLVANIA HID ballasts only

| Product Number | Ordering Abbreviation | General Description            | Diameter | Height | Symbols & Footnotes |
|----------------|-----------------------|--------------------------------|----------|--------|---------------------|
| 47912          | CAP 24MF 480VAC       | 24MF 480VAC (MIN) Capacitor    |          |        |                     |
| 47920          | CAP 26MF 525VAC       | 26MF 525VAC Capacitor          |          |        |                     |
| 47926          | CAP40MFD280VAC        | 40MF 280 VAC Capacitor         |          |        |                     |
| 47927          | CAP52MFD280VAC        | 52MF 280 VAC Capacitor         |          |        |                     |
| 47932          | CAP 35MF 280VAC       | 35MF 280 Capacitor             |          |        |                     |
| 47938          | CAP28.5MFD330VAC      | 28.5MF 330 VAC (MIN) Capacitor |          |        |                     |
| 47942          | CAP 55MF 300VAC       | 55MF 300VAC Capacitor          |          |        |                     |
| 47952          | CAP 10MF 400VAC       | 10MF 400VAC Capacitor          |          |        |                     |
| 47954          | CAP 15MF 400VAC (MIN) | 15MF 400VAC Capacitor          |          |        |                     |

• Data shown is based on primary lamp type.

## COMPONENTS

### IGNITORS

Replacement ignitors for SYLVANIA HID ballasts only

| Product Number | Ordering Abbreviation  | General Description   | Diameter  | Height | Symbols & Footnotes |
|----------------|------------------------|-----------------------|-----------|--------|---------------------|
| 47996          | IGNITOR MH PS 35-150   | 35-150W MH Ignitor    | 1.25x2.00 | 2.50   |                     |
| 47997          | IGNITOR MH PS 175-400  | 175-400W MH Ignitor   | 1.75      | 2.00   |                     |
| 47998          | IGNITOR MH PS 750-1000 | 750-1000W MH Ignitor  | 1.17x1.90 | 2.50   |                     |
| 47843          | IGNITOR HPS 35-150     | 35-150W HPS Ignitor   | 1.375     | 2.40   |                     |
| 47844          | IGNITOR HPS 200-400    | 200-400W HPS Ignitor  | 1.25x2.00 | 2.50   |                     |
| 47847          | IGNITOR HPS 600-1000   | 600-1000W HPS Ignitor | 1.87x1.89 | 2.50   |                     |
| 47877          | HPS IGN 35-150W        | 35-150W HPS Ignitor   | 2.315     | 2.83   |                     |

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1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)

• Data shown is based on primary lamp type.

## SYMBOLS & FOOTNOTES FOR ELECTRONIC & MAGNETIC BALLAST CONTROL SYSTEMS

| Symbol   | Description  |
|--|--|
|    | New item introduced within the past year.  |
|    | Item will be discontinued when inventory is depleted.  |
|    | Product is Canadian Standards Association certified for U.S. and Canadian markets                                    |
|    | Electronic Control Systems Logo  |
|    | Dimmable Logo T5   |
|    | QUICK60+® warranty   |
|    | QUICKSENSE® Circuitry  |
|    | PROStart® Programmed Start   |
|    | cULus  |
|    | This lamp or ballast meets minimum Federal efficiency standards.   |
|    | Product is Canadian Standards Association approved for the Canadian market   |
|    | Product is Canadian Standards Association certified for the U.S. market  |
|    | Product complies with the requirements of Canadian Standards Association energy efficiency and performance standards |
|    | Product is Underwriters Laboratories listed  |
|   | Product is an Underwriters' Laboratories recognized component, certified for both U.S. and Canadian requirements     |
|  | Product is an Underwriters' Laboratories recognized component  |

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| Footnote | Description  |
|----------|--|
| 1        | Remote Mounting up to 18 feet  |
| 2        | 70C Max Case Temperature   |
| 4        | UL Listed Class P, Type 1 Outdoor  |
| 5        | Insulate unused leads  |
| 6        | Ground ballast case  |
| 7        | Lampholder must be shorted per diagram   |
| 8        | Install in accordance with National Electric Codes   |
| 9        | Complies with FCC 47 CFR Part 18, Non-Consumer   |
| 10       | ANSI 62.41 Cat. A Transient Protection   |
| 11       | Class A Sound Rating.  |
| 12       | Minimum Starting Temperature: 0F/-18C.   |
| 13       | Input Frequency: 60Hz.   |
| 14       | Product is a kit containing the core & coil, capacitor, ignitor (where required), brackets and mounting hardware |
| 15       | Remote Mounting up to 12 feet  |
| 16       | Remote Mounting up to 10 feet  |
| 17       | Input Frequency: 50/60Hz.  |
| 18       | Wiring diagram applies to instant start standard, low power (LP), PLUS, and HD10 ballast types.                  |
| 19       | Oil Filled Capacitor   |
| 20       | Product contains installation instructions   |



## SYMBOLS & FOOTNOTES FOR ELECTRONIC & MAGNETIC BALLAST CONTROL SYSTEMS

| Footnote | Description   |
|----------|---|
| 21       | Remote mounting defined by harness length   |
| 22       | Remote Mounting up to 19 feet (keep red wires short for 1&2 lamp).  |
| 23       | Type CC   |
| 24       | 75C Max Case Temperature  |
| 25       | Minimum Starting Temperature: -5F/-20C.   |
| 26       | Remote Mounting up to 19 feet (keep red wires short for 1&2 lamp models).   |
| 27       | ANSI C62.41 cat. B3 Transient Protection.   |
| 28       | Remote mounting - Typically 6ft with suitable ground plane, but varies by model and application. Contact ECS Application Engineering for information on longer applications.  |
| 29       | Remote Mounting up to 7 feet  |
| 30       | Minimum Starting Temperature: 60F/16C.  |
| 31       | Data shown is at full light output.   |
| 32       | Minimum Starting Temperature: 50F/10C.  |
| 33       | Class B Sound Rating.   |
| 34       | Remote mounting up to 8 feet.   |
| 35       | 85C Max Case Temperature  |
| 36       | 90C Max Case Temperature  |
| 37       | Suitable for recessed use.  |
| 38       | 90C max. case Temperature, thermally protected.   |
| 39       | Remote mounting - Typically 6ft, but varies by application, remote capability up to 15ft. Contact OSRAM SYLVANIA for details.   |
| 40       | Mount lamps within 1/2 " of grounded metal reflector  |
| 41       | Minimum starting temperature: 60 F / 16 C with SS lamps   |
| 42       | Full light output   |
| 43       | Product is individually shrink-wrapped  |
| 44       | For residential use only  |
| 45       | Circuit Interrupting Lampholder required  |
| 46       | Cutout Lampholder   |
| 47       | Class C Sound Rating.   |
| 48       | Minimum starting temperature: -20 F / -29 C   |
| 49       | Mount lamps within 1" of grounded metal reflector   |
| 50       | High Voltage Pulse Present on Open Circuit  |
| 51       | White painted metal enclosure   |
| 52       | Thermal protection: Class P, Type 2 outdoor   |
| 53       | For any 1 or 2 T12/RS/HO 800mA lamp combination provided total lamp length is not less than 4 ft. nor more than 12 ft.  |
| 54       | Class D Sound Rating.   |
| 55       | For any 2, 3 or 4 T12/RS/HO 800mA lamp combination provided total lamp length is not less than 6 ft. nor more than 20 ft.   |
| 56       | Normal ambient temperature: 77 F / 25 C   |
| 57       | For any 2, 3 or 4 T12/RS/HO 800mA lamp combination provided total lamp length is not less than 12 ft. nor more than 24 ft.  |
| 58       | Class E sound rating  |
| 59       | For any 2, 3 or 4 T12/RS/HO 800mA lamp combination provided total lamp length of each circuit (A) and circuit (B) is not less than 10 ft. nor more than 20 ft. Circuit "A" consists of lamp 1, 2 Circuit "B" consists of lamp 3, 4        |
| 60       | For any 4,5 or 6 T12/RS/HO 800mA lamp combination provided total lamp length of each circuit (A) and circuit (B) is not less than 6 ft. nor more than 20 ft. Circuit "A" consists of lamp 1, 2, 3 Circuit "B" consists of lamp 4, 5, 6    |
| 61       | For any 4, 5 or 6 T12/RS/HO 800 mA lamp combination provided total lamp length of each circuit (A) and circuit (B) is not less than 12 ft. nor more than 24 ft. Circuit "A" consists of lamp 1, 2, 3 Circuit "B" consists of lamp 4, 5, 6 |
| 62       | Starter required  |
| 63       | High power factor   |

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## SYMBOLS & FOOTNOTES FOR ELECTRONIC & MAGNETIC BALLAST CONTROL SYSTEMS

| Footnote | Description  |
|----------|--|
| 64       | Connector Included   |
| 65       | Ground Ballast Core  |
| 66       | Maximum ambient temperature: 104 F / 40 C  |
| 67       | Dry Capacitor  |
| 68       | Suitable for Recessed Use Do not install insulation within 3 inches of ballast sides or above ballast in such a manner to entrap heat.         |
| 69       | UL Listed Type 1 Outdoor, Auto-reset thermal protector   |
| 70       | Minimum starting temperature: -22 F / -30 C  |
| 71       | Insulate unused leads individually for 600V  |
| 72       | Minimum Starting Temperature: -40F/-40C.   |
| 73       | Reactor with Integral Ignitor  |
| 74       | Contact OSRAM SYLVANIA for UL benchtop coil rise code  |
| 75       | Remote mounting up to 18 feet. Keep blue wires short i.e. lamp(s) attached to the blue leads to remain in the fixture that houses the ballast. |
| 76       | 65C Max Case Temperature.  |
| 77       | Use only with an overall electrical enclosure - protect from exposure to water.  |
| 78       | Minimum starting temperature for 70W lamp: -13F/-25C.  |

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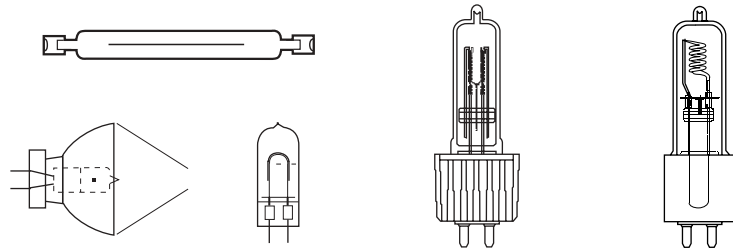
## OSRAM BRAND PHOTO-OPTIC LIGHT SOURCES

Lighting to provide solutions in diverse applications such as effect lighting, stage, studio, TV, projection systems, microlithography, medical/scientific, industrial, and airfield/aircraft.

### Photo-Optic Lamp Types

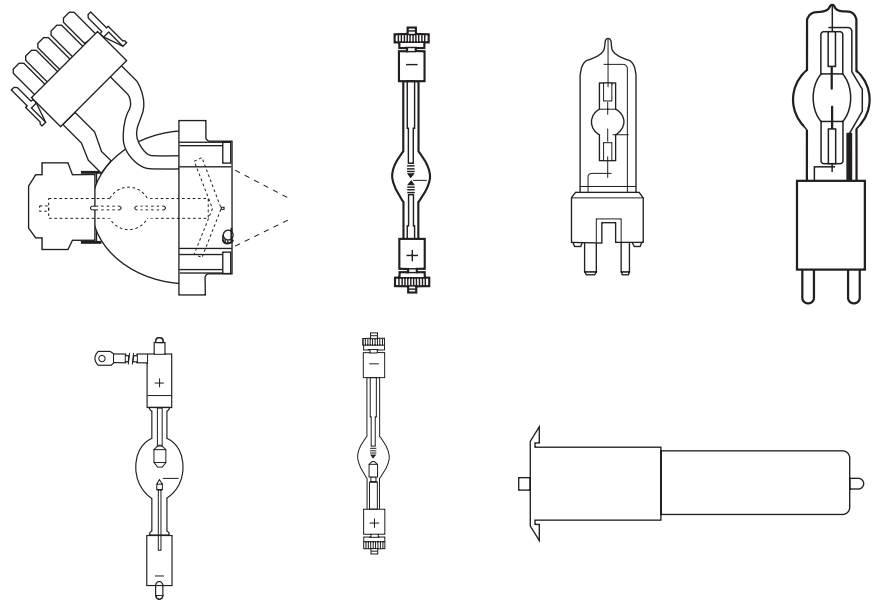
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- HPL
- HPR™
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- HMI®
- HMP®
- HSD®
- HSR®
- HTI®
- LINEX®
- VIP®
- XBO®
- XERADEX®



The following item was accepted into the 2003 IESNA Progress Report which recognizes innovative products introduced to the industry during that year.

LINEX Mercury-Free Xenon Fluorescent Systems

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In accordance with ANSI/IESNA Standard RP-27, all Photo-Optic Discharge lamps are Risk Group 3 products, and all Photo-Optic Incandescent and Tungsten Halogen lamps are Risk Group 2 products.

Please read and understand the Safety and Warning Instructions for each lamp type before use. Safety and Warning Instructions can be found at the end of this Photo-Optic section.

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**AUDIOVISUAL**

| ANSI Code     | Product Number | Ordering Abbreviation | Application                              | Watts | Volts | Base       | Lumens | Avg Rated Life(hrs) | Bulb  | Pkg Qty | Footnotes |
|---------------|----------------|-----------------------|--|-------|-------|------------|--------|---------------------|-------|---------|-----------|
| BAA           | 54924          | BAA                   | Projector                                | 75    | 28    | GX5.3      |        | 2000                | MR16  | 24      |           |
| BBA           | 11619          | BBA 118V              | Photoflood No.1/Enlarger & Printer       | 250   | 118   | Med        |        | 4                   | A21   | 12      |           |
| BCK           | 54576          | BCK                   | Projector - Slide                        | 500   | 120   | G17t       |        | 50                  | T6    | 24      | 1         |
| BHC/DYS/DYV   | 54836          | BHC/DYS/DYV           | Projector, Microfilm, Stage & Studio     | 600   | 120   | GZ9.5      | 17500  | 75                  | T6    | 24      |           |
| BHC/DYS/DYV/X | 54868          | BHC/DYS/DYV/X         | Projector, Microfilm, Stage & Studio     | 600   | 120   | GZ9.5      | 14500  | 250                 | T6    | 24      |           |
| BHC/DYS/DYV-5 | 54835          | BHC/DYS/DYV-5         | Projector, Microfilm, Stage & Studio     | 600   | 125   | GZ9.5      | 17500  | 75                  | T6    | 24      | 2         |
| BRJ/EVB       | 54039          | BRJ/EVB 64633 HLX     | Projector, Microfilm, Microscope, Studio | 150   | 15    | G6.35      | 5600   | 50                  | T3.25 | 100     |           |
| BRL           | 54034          | BRL 64610 HLX         | Projector, Microfilm, Microscope, Studio | 50    | 12    | G6.35      | 1600   | 50                  | T3    | 100     |           |
| BRL           | 54035          | BRL 64610 HLX BULK    | Project, Microfilm, Microscope, Studio   | 50    | 12    | G6.35      | 1600   | 50                  | T3    | 250     |           |
| BRN           | 54698          | BRN                   | Projector                                | 1200  | 120   | G17q       |        | 20                  | T7    | 24      | 3         |
| BVA           | 54673          | BVA                   | Projector                                | 900   | 120   | GY9.5      |        | 75                  | T7    | 24      |           |
| BVE           | 54812          | BVE                   | Projector, Microfilm, Stage & Studio     | 625   | 120   | GY9.5      |        | 50                  | T6    | 24      |           |
| CAX           | 58831          | CAX                   | Projector, Microfilm, Microscope, Studio | 50    | 120   | DC Bayonet | 750    | 250                 | T4    | 24      |           |
| CBA           | 54580          | CBA                   | Projector - Slide                        | 500   | 120   | G17t       |        | 50                  | T6    | 24      | 1         |
| DDK           | 54729          | DDK                   | Projector                                | 80    | 19    | GX5.3      | 150    | 50                  | T3.15 | 24      | 4         |
| DDL           | 54660          | DDL                   | Projector - Microfilm                    | 150   | 20    | GX5.3      |        | 500                 | MR16  | 24      |           |
| DDM           | 54737          | DDM                   | Projector - Slide                        | 80    | 19    | GX5.3      | 400    | 50                  | MR16  | 24      | 4         |
| DDS           | 54944          | DDS                   | Projector - Microfilm                    | 80    | 21    | GX5.3      |        | 1000                | MR16  | 24      |           |
| DED           | 54726          | DED                   | Projector - Microfilm                    | 85    | 14    | GX5.3      | 150    | 1000                | MR16  | 24      | 4         |
| DEK/DFW       | 74440          | DEK/DFW               | Projector                                | 500   | 120   | Trufocus   |        |                     | T12   | 24      |           |
| DNE           | 54409          | DNE                   | Projector                                | 150   | 120   | GX7.9      | 100    | 15                  | TB16  | 24      | 4         |
| DNF           | 54411          | DNF                   | Projector - 8mm                          | 150   | 21    | GX7.9      | 300    | 25                  | MR18  | 24      |           |
| DVY           | 54528          | DVY                   | Projector, Stage & Studio                | 650   | 120   | G5.3       | 20000  | 25                  | T6    | 12      |           |
| DYH           | 54561          | DYH                   | Projector, Stage & Studio                | 600   | 120   | G5.3       | 17000  | 75                  | T5    | 24      |           |
| DZE           | 54755          | DZE                   | Projector, Microfilm, Stage & Studio     | 150   | 24    | GZ9.5      | 4000   | 100                 | T4    | 24      |           |
| EBV           | 11558          | EBV 118V              | Super Photoflood/ No.2                   | 500   | 118   | Med Brass  | 17800  | 8                   | PS25  | 24      |           |
| ECA           | 13365          | ECA 120V              | Super Photoflood                         | 250   | 120   | Med Brass  | 6500   | 20                  | A23   | 24      |           |
| ECT           | 11560          | ECT 120V              | Photoflood                               | 500   | 120   | Med Brass  | 13650  | 60                  | PS25  | 24      |           |
| EFM           | 54123          | EFM 64607             | Projector - 8mm                          | 50    | 8     | GZ6.35     |        | 50                  | MR16  | 20      |           |
| EFN           | 54126          | EFN 64615 HLX         | Projector - 8mm                          | 75    | 12    | GZ6.35     |        | 50                  | MR16  | 20      |           |
| EFP           | 54189          | EFP 64627 HLX         | Projector - 8mm                          | 100   | 12    | GZ6.35     |        | 50                  | MR16  | 20      |           |
| EFP/X         | 54192          | EFP/X 64629 HLX       | Projector - 8mm                          | 100   | 12    | GZ6.35     |        | 600                 | MR16  | 20      |           |
| EFR           | 54210          | EFR 64634 HLX         | Projector - 8mm                          | 150   | 15    | GZ6.35     |        | 50                  | MR16  | 20      |           |
| EFR-5/X       | 54211          | EFR-5/X 64620 HLX     | Projector - 8mm                          | 150   | 15    | GY6.35     |        | 500                 | MR16  | 20      |           |
| EHA           | 54585          | EHA                   | Projector, Microfilm, Stage & Studio     | 500   | 120   | GY9.5      |        | 50                  | T6    | 24      | 3         |

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|-----------|----------------|-----------------------|---|-------|-------|-------|--------|---------------------|------|---------|-----------|
| EHE       | 54038          | <b>EHE 64626 HLX</b>  | Projector                                       | 100   | 12    | PG22  | 3600   | 50                  | T4   | 30      |           |
| EHI       | 54045          | <b>EHI 64655 HLX</b>  | Projector, Microfilm, Microscope, Studio        | 250   | 24    | G6.35 | 10000  | 50                  | T4   | 100     |           |
| EJA       | 54753          | <b>EJA</b>            | Projector - Fiber optics                        | 150   | 21    | GX5.3 | 354    | 40                  | MR16 | 24      |           |
| EJL       | 54730          | <b>EJL</b>            | Projector - 16mm Color printer                  | 200   | 24    | GX5.3 | 725    | 50                  | MR16 | 24      | 4         |
| EJM       | 54747          | <b>EJM</b>            | Projector - 8mm                                 | 150   | 21    | GX5.3 | 170    | 40                  | TB18 | 24      | 4         |
| EJV       | 54732          | <b>EJV</b>            | Projector - 8mm, Printer                        | 150   | 21    | GX5.3 | 270    | 100                 | MR16 | 24      | 4         |
| EKE       | 54842          | <b>EKE</b>            | Projector - 8mm, Fiber-Optics                   | 150   | 21    | GX5.3 | 80     | 200                 | MR16 | 24      | 4         |
| EKE/X     | 58771          | <b>EKE/X</b>          | Projector - 8mm, Fiber-Optics                   | 150   | 21    | GX5.3 | 80     | 1000                | MR16 | 24      | 4         |
| EKP/ENA   | 54734          | <b>EKP/ENA</b>        | Projector - 8mm                                 | 80    | 30    | GX5.3 | 115    | 25                  | MR16 | 24      | 4         |
| ELC       | 54212          | <b>ELC 64653 HLX</b>  | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 |        | 50                  | MR16 | 20      |           |
| ELC       | 54840          | <b>ELC</b>            | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 | 800    | 50                  | MR16 | 24      | 4         |
| ELC-3/X   | 54841          | <b>ELC-3/X</b>        | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 | 550    | 300                 | MR16 | 24      | 4         |
| ELC-7/X   | 54811          | <b>ELC-7/X BULK</b>   | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 | 475    | 700                 | MR16 | 100     | 4         |
| ELC-7/X   | 54814          | <b>ELC-7/X</b>        | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 | 475    | 700                 | MR16 | 24      | 4         |
| ELC-HL    | 54804*         | <b>ELC-HL</b>         | Overhead projection, fiber-optic, entertainment | 250   | 24    | GX5.3 | 950    | 50                  | MR16 | 24      |           |
| ELD       | 54745          | <b>ELD</b>            | Projector - Microfilm                           | 150   | 21    | GX5.3 | 350    | 40                  | MR16 | 24      | 4         |
| ELH       | 54776          | <b>ELH</b>            | Projector - Overhead                            | 300   | 120   | GY5.3 | 525    | 35                  | MR16 | 24      | 4         |
| ELS       | 54810          | <b>ELS</b>            | Projector                                       | 50    | 16    | GX7.9 | 20     | 650                 | TB14 | 24      | 4         |
| ELV       | 54765          | <b>ELV</b>            | Projector                                       | 150   | 22    | GX7.9 | 225    | 100                 | TB18 | 24      | 4         |
| ELZ       | 54816          | <b>ELZ</b>            | Projector                                       | 150   | 21    | GX7.9 | 350    | 60                  | TB18 | 24      | 4         |
| EMG       | 54828          | <b>EMG</b>            | Projector                                       | 500   | 220   | GY9.5 |        | 75                  | T6   | 24      |           |
| EMM/EKS   | 54960          | <b>EMM/EKS</b>        | Projector - 16mm                                | 250   | 24    | GX7.9 | 725    | 50                  | MR14 | 24      | 4         |
| ENG       | 54957          | <b>ENG</b>            | Projector                                       | 300   | 120   | GY5.3 | 690    | 15                  | MR16 | 24      | 4         |
| ENH       | 54986          | <b>ENH</b>            | Projector - Slide                               | 250   | 120   | GY5.3 | 340    | 175                 | MR16 | 24      | 4         |
| ENH-5     | 54988          | <b>ENH-5</b>          | Projector - Overhead                            | 250   | 125   | GY5.3 | 340    | 175                 | MR16 | 24      | 4         |
| ENL       | 58786          | <b>ENL</b>            | Projector - Display, Fiber-Optics               | 50    | 12    | GX5.3 | 85     | 4000                | MR16 | 24      |           |
| ENX       | 54984          | <b>ENX</b>            | Projector - Overhead                            | 360   | 82    | GY5.3 | 460    | 75                  | MR16 | 24      | 4         |
| ENX-5     | 54913          | <b>ENX-5</b>          | Projector - Overhead                            | 360   | 86    | GY5.3 | 540    | 75                  | MR16 | 24      | 4         |
| ENX-7     | 54916          | <b>ENX-7</b>          | Projector - Overhead                            | 360   | 88    | GY5.3 | 540    | 75                  | MR16 | 24      | 4         |
| EPR       | 54829          | <b>EPR</b>            | Projector                                       | 500   | 120   | G17t  |        | 50                  | T6   | 24      | 1         |
| EPS       | 54977*         | <b>EPS</b>            | Projector                                       | 500   | 240   | G17t  |        | 50                  | T6   | 24      | 1,3       |
| EPS/230   | 54975*         | <b>EPS/230</b>        | Projector                                       | 500   | 230   | G17t  |        | 50                  | T6   | 24      | 3,5       |
| EPT       | 58782          | <b>EPT</b>            | Projector - Fiber-Optics                        | 42    | 11    | GX5.3 |        | 8000                | MR16 | 24      |           |
| EPV       | 54926          | <b>EPV</b>            | Projector - Microfilm                           | 90    | 14    | GX5.3 | 36     | 500                 | MR16 | 24      | 4         |

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| EPX       | 54927          | EPX                   | Projector - Microfilm                    | 90    | 14    | GX5.3  | 43     | 500                 | MR16  | 24      | 4         |
| EPZ       | 54743          | EPZ                   | Projector - Microfilm                    | 50    | 14    | GX5.3  | 80     | 3000                | MR16  | 24      | 4         |
| ERK       | 55050          | ERK BULK              | Projector                                | 12    | 6     | Wedge  |        | 150                 | T2.25 | 500     |           |
| ERM       | 55054          | ERM BULK              | Projector                                | 7     | 6     | Wedge  |        | 30                  | T2.25 | 500     |           |
| ESA/FHD   | 54025          | ESA/FHD 64225         | Projector                                | 10    | 6     | G4     | 200    | 100                 | T3    | 100     |           |
| ESB       | 54019          | ESB 64250 HLX         | Projector                                | 20    | 6     | G4     | 480    | 100                 | T3.5  | 100     |           |
| ETJ       | 54928          | ETJ                   | Projector                                | 250   | 120   | GY5.3  | 600    | 175                 | MR16  | 24      | 4         |
| EVA       | 54052          | EVA 64623 HLX         | Projector, Microfilm, Microscope, Studio | 100   | 12    | GY6.35 | 2800   | 2000                | T4    | 100     |           |
| EVC       | 54047          | EVC 64657 HLX         | Projector, Microfilm, Microscope, Studio | 250   | 24    | G6.35  | 9000   | 300                 | T4    | 100     |           |
| EVD       | 54100          | EVD 64663 HLX         | Projector, Microfilm, Studio             | 400   | 36    | G6.35  | 16000  | 50                  | T6    | 24      | 6         |
| EVD       | 54103          | EVD 64663 HLX BULK    | Projector, Microfilm, Studio             | 400   | 36    | G6.35  | 16000  | 50                  | T6    | 100     |           |
| EVW       | 54723          | EVW                   | Projector                                | 250   | 82    | GY5.3  | 390    | 50                  | MR16  | 24      | 4         |
| EXR       | 54392          | EXR                   | Projector - Slide                        | 300   | 82    | GX5.3  | 925    | 35                  | MR13  | 24      | 4         |
| EXR       | 54393          | EXR BULK              | Projector - Slide                        | 300   | 82    | GX5.3  |        | 35                  | MR13  | 100     | 4         |
| EXW       | 54388          | EXW                   | Projector - Slide                        | 300   | 82    | GX5.3  | 1050   | 15                  | MR13  | 24      | 4         |
| EXY       | 54394          | EXY                   | Projector - Slide                        | 250   | 82    | GX5.3  | 400    | 200                 | MR13  | 24      | 4         |
| EYB       | 54446          | EYB                   | Projector, Stage & Studio                | 360   | 82    | G5.3   | 10000  | 75                  | T3.5  | 24      |           |
| EYB-5     | 54448          | EYB-5                 | Projector, Microfilm, Stage & Studio     | 360   | 86    | G5.3   | 10000  | 75                  | T3.5  | 24      |           |
| EYB-7     | 54455          | EYB-7                 | Projector, Microfilm, Stage & Studio     | 360   | 88    | G5.3   | 10000  | 75                  | T3.5  | 24      |           |
| EZE       | 54386          | EZE                   | Projector, Stage & Studio                | 150   | 82    | GX5.3  | 350    | 150                 | MR13  | 24      | 4         |
| FBV       | 54568          | FBV                   | Projector, Microfilm, Stage & Studio     | 250   | 30    | E10    | 7000   | 6                   | T3    | 12      |           |
| FCR       | 54036          | FCR 64625 HLX         | Projector, Microfilm, Microscope, Studio | 100   | 12    | GY6.35 | 3600   | 50                  | T3.5  | 100     |           |
| FCS       | 54041          | FCS 64640 HLX         | Projector                                | 150   | 24    | G6.35  | 6000   | 50                  | T4    | 100     |           |
| FCS       | 54042          | FCS 64640 HLX BULK    | Projector                                | 150   | 24    | G6.35  | 6000   | 50                  | T4    | 250     |           |
| FDS/DZE   | 54055          | FDS/DZE 64643         | Projector, Microfilm, Microscope, Studio | 150   | 24    | GY9.5  | 5000   | 100                 | T4    | 30      |           |
| FDT 64628 | 54031          | FDT 64628             | Projector, Stage & Studio                | 100   | 12    | GY9.5  | 3000   | 50                  | T4    | 30      |           |
| FDV       | 54054          | FDV 64642 HLX         | Projector, Microfilm, Microscope, Studio | 150   | 24    | G6.35  | 5000   | 300                 | T4    | 100     |           |
| FHS       | 54979          | FHS                   | Projector - Slide                        | 300   | 82    | GX5.3  | 650    | 70                  | MR16  | 24      | 4         |
| FKT/EYH   | 54547          | FKT/EYH               | Projector - Video Camera                 | 250   | 120   | G5.3   | 5400   | 200                 | T6    | 24      |           |
| FLE       | 54383          | FLE                   | Projector                                | 360   | 82    | GY5.3  | 1250   | 75                  | MR16  | 24      | 4,7       |
| FLT       | 54440          | FLT                   | Projector - Video Camera, Microfilm      | 25    | 14    | G4     |        | 500                 | MR11  | 24      | 8         |
| FNS       | 58635          | FNS 64512             | Projector, Stage & Studio                | 300   | 120   | GX6.35 | 9500   | 15                  | T5    | 25      |           |
| FNT       | 54044          | FNT 64656PT HLX       | Projector, Microfilm, Microscope, Studio | 275   | 24    | G6.35  | 10000  | 75                  | T4    | 100     |           |

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| FNT       | 54046          | FNT 64656PT HLX BULK  | Projector, Microfilm, Microscope, Studio       | 275   | 24    | G6.35    | 10000  | 75                  | T4    | 250     |           |
| FSG       | 54899          | FSG                   | Projector                                      | 1200  | 120   | P28s     | 28000  | 100                 | T7    | 12      |           |
| FSX       | 54897          | FSX/230               | Projector                                      | 400   | 230   | GY9.5    |        | 75                  | T6    | 24      | 3         |
| FSY       | 54898          | FSY                   | Projector                                      | 400   | 240   | GY9.5    |        | 75                  | T6    | 24      | 3         |
| FXL       | 54912          | FXL                   | Projector - Overhead                           | 410   | 82    | GY5.3    | 640    | 75                  | MR16  | 24      |           |
| FXL-HL    | 54904          | FXL-HL                | Projector - Overhead                           | 410   | 82    | GY5.3    | 850    | 40                  | MR16  | 24      | 4         |
| GCB       | 54430          | GCB                   | Projector, Stage & Studio, Video               | 200   | 30    | G5.3     | 5300   | 200                 | T3    | 24      |           |
| GCC       | 54432          | GCC                   | Projector, Stage & Studio                      | 100   | 12    | G5.3     | 3100   | 200                 | T3    | 24      |           |
| GCD       | 54845          | GCD                   | Projector, Microfilm, Stage & Studio           | 590   | 50    | GZ9.5    | 21500  | 50                  | T6    | 24      |           |
|           | 53998          | 64638 HLX             | Projector                                      | 100   | 24    | G6.35    | 2900   | 300                 | T3    | 100     |           |
|           | 53999          | 64265 HLX             | Projector                                      | 30    | 6     | G4       | 765    | 100                 | T2    | 100     |           |
|           | 54021          | 64251 HLX             | Projector                                      | 20    | 6     | PG22     | 500    | 100                 | T3    | 30      |           |
|           | 54022          | 64260                 | Projector                                      | 30    | 12    | PG22     | 800    | 50                  | T3    | 30      |           |
|           | 54023          | 64261                 | Projector                                      | 30    | 12    | G6.35    | 750    | 50                  | T3.25 | 100     |           |
|           | 54026          | 62138 HLX             | Projector                                      | 100   | 12    | GZ6      |        | 25                  | T3    | 100     |           |
|           | 54027          | 64275                 | Projector                                      | 35    | 6     | G4       | 780    | 50                  | T3    | 100     |           |
|           | 54028          | 64611 HLX             | Projector                                      | 50    | 12    | G6.35    | 1350   | 100                 | T3.25 | 100     |           |
|           | 54032          | 64621 HLX             | Projector, Microfilm, Stage & Studio, Aircraft | 100   | 12    | PG22     | 2750   | 2000                | T3    | 30      |           |
|           | 54050          | 64223                 | Projector                                      | 10    | 6     | G4       | 150    | 300                 | T3    | 100     |           |
|           | 54056          | 64650                 | Projector, Microfilm, Microscope, Studio       | 50    | 23    | G6.35    | 1000   | 1300                | T4    | 100     |           |
|           | 54057          | 64664 HLX             | Projector, Microfilm, Microscope, Studio       | 400   | 36    | G6.35    | 14500  | 150                 | T6    | 25      | 9         |
|           | 54058          | 64665 HLX             | Projector, Microfilm, Microscope, Studio       | 400   | 36    | G6.35    | 12200  | 300                 | T6    | 25      |           |
|           | 54120          | 64258 HLX             | Projector                                      | 20    | 12    | G4       |        | 2000                | T3    | 100     |           |
|           | 54121          | 64617S                | Projector                                      | 75    | 12    | G5.3-4.8 |        | 25                  | MR11  | 20      |           |
|           | 54122          | 64255                 | Projector                                      | 20    | 8     | GZX4     |        | 50                  | MR11  | 20      |           |
|           | 54124          | 64617                 | Projector                                      | 75    | 12    | G5.3-4.8 |        | 25                  | MR11  | 20      |           |
|           | 54125          | 64624                 | Projector                                      | 100   | 12    | G5.3-4.8 |        | 25                  | MR11  | 20      |           |
|           | 54136          | 64654 HLX             | Projector, Microfilm, Microscope, Studio       | 250   | 24    | GY9.5    | 9000   | 300                 | T6    | 30      |           |
|           | 54138          | 64602                 | Projector, Microfilm, Microscope, Studio       | 50    | 12    | G6.35    | 1000   | 1100                | T3.25 | 100     |           |
|           | 54214          | 64637                 | Projector                                      | 100   | 12    | GZ6.35   |        | 1500                | MR16  | 20      |           |
|           | 54233          | 64635 HLX             | Projector, Fiber-Optic                         | 150   | 15    | GZ6.35   |        | 50                  | MR16  | 20      |           |
|           | 54400          | 85T3/RM               | Projector                                      | 85    | 82    | GX5.3    |        | 40                  | MR16  | 24      |           |
|           | 54466          | 120/T4/SPECIAL        | Projector                                      | 120   | 24    | Special  | 2750   | 500                 | T4    | 24      |           |
|           | 58729          | 60T4QCL               | Medical Overhead Illumination                  | 60    | 24    | BA15d    | 1280   | 500                 | T4    | 12      |           |
|           | 58939          | 220T4Q/2PPF           | Medical Overhead Illumination                  | 220   | 22    | GY9.5    | 6200   | 200                 | T4    | 12      |           |

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|           | 58941          | 235T4Q/2PPF           | Medical Overhead Illumination | 235   | 33    | GZ9.5      | 5800   | 200                 | T4   | 12      |           |
|           | 76302          | 70335 BULK            | Special Purpose               | 27    | 6     | Special    |        |                     |      | 200     |           |
|           | 76304          | 70314 (390153)        | Special Purpose               | 25    | 6     | P47D       |        |                     |      | 100     |           |
|           | 76305          | 70313 (390158)        | Special Purpose               | 30    | 6     | P47D       |        |                     |      | 100     |           |
|           | 76311          | 8013                  | Projector                     | 10    | 6     | BA15d      |        | 200                 |      | 100     | 10        |
|           | 76313          | 8017                  | Projector                     | 15    | 6     | DC Bayonet |        | 1000                |      | 100     |           |
|           | 76314          | 8018                  | Projector                     | 15    | 6     | DC Bayonet |        | 100                 |      | 100     | 10,11     |
|           | 76317          | 8025                  | Projector                     |       | 6     | BA20d      |        | 300                 |      | 100     | 10        |
|           | 76319          | 8029                  | Projector                     | 60    | 15    | BA20d      |        | 25                  |      | 100     |           |
|           | 76321          | 8100                  | Projector                     |       | 5     | E14        |        | 600                 |      | 100     |           |
|           | 76362          | 91645                 | Special Purpose               | 50    | 110   | PY280      |        |                     |      | 100     |           |

## STUDIO, THEATRE, TV &amp; VIDEO

| ANSI Code | Product Number | Ordering Abbreviation | Application    | Watts | Volts | Base       | Lumens | Avg Rated Life(hrs) | Bulb  | Pkg Qty | Footnotes |
|-----------|----------------|-----------------------|----------------|-------|-------|------------|--------|---------------------|-------|---------|-----------|
| BCM       | 54694          | BCM                   | Stage & Studio | 20000 | 230   | G38        | 580000 | 350                 | T32   | 1       |           |
| BTL       | 54685          | BTL                   | Stage & Studio | 500   | 120   | P28s       | 11000  | 750                 | T6    | 12      |           |
| BTM       | 54686          | BTM                   | Stage & Studio | 500   | 120   | P28s       | 13000  | 100                 | T6    | 12      |           |
| BTN       | 54687          | BTN                   | Stage & Studio | 750   | 120   | P28s       | 17000  | 500                 | T7    | 12      |           |
| BTP       | 54688          | BTP                   | Stage & Studio | 750   | 120   | P28s       | 20000  | 200                 | T7    | 12      |           |
| BTR       | 54689          | BTR                   | Stage & Studio | 1000  | 120   | P28s       | 27500  | 250                 | T6    | 12      |           |
| BVM       | 58638          | BVM 64540             | Stage & Studio | 650   | 230   | GX6.35     | 20000  | 15                  | T8    | 25      | 12        |
| BVT       | 54690          | BVT                   | Stage & Studio | 1000  | 120   | P40s       | 23000  | 500                 | T7    | 6       |           |
| BWV       | 54691          | BVV                   | Stage & Studio | 1000  | 120   | P40s       | 27500  | 200                 | T6    | 6       |           |
| BWW       | 54692          | BVW                   | Stage & Studio | 2000  | 120   | P40s       | 59000  | 280                 | T9.5  | 6       |           |
| CXZ       | 54717          | CXZ                   | Stage & Studio | 1500  | 120   | G38        | 38500  | 325                 | T8    | 6       |           |
| CYV       | 54706          | CYV                   | Stage & Studio | 1000  | 120   | G38        | 27500  | 200                 | T7    | 6       |           |
| CYX       | 54613          | CYX                   | Stage & Studio | 2000  | 120   | G38        | 55000  | 300                 | T9    | 6       |           |
| DNS/FMC   | 54655          | DNS/FMC               | Stage & Studio | 500   | 120   | P28s       | 11000  | 500                 | T6    | 24      |           |
| DNT/FMD   | 54658          | DNT/FMD               | Stage & Studio | 750   | 120   | P28s       | 17000  | 500                 | T7    | 24      | 10        |
| DPY       | 54647          | DPY                   | Stage & Studio | 5000  | 120   | G38        | 143000 | 500                 | T17   | 1       |           |
| DTA       | 54716          | DTA                   | Stage & Studio | 1500  | 120   | P40s       | 39000  | 100                 | T8    | 6       |           |
| DTY       | 54696          | DTY                   | Stage & Studio | 10000 | 120   | G38        | 290500 | 350                 | T24   | 1       |           |
| DWE       | 54500          | DWE                   | Stage & Studio | 650   | 120   | Screw Term | 24000  | 100                 | PAR36 | 12      |           |
| DWT       | 58937          | DWT                   | Stage & Studio | 1000  | 120   | RX7s       | 22000  | 2000                | T6    | 12      |           |
| DXW       | 53997          | DXW                   | Stage & Studio | 1000  | 120   | R7s        | 28000  | 150                 | T5    | 12      | 13        |
| EFX       | 54787          | EFX                   | Stage & Studio | 500   | 120   | G22        | 10000  | 2000                | T5    | 12      |           |
| EGE       | 54648          | EGE                   | Stage & Studio | 500   | 120   | P28s       | 10000  | 2000                | T5    | 12      |           |
| EGG       | 54652          | EGG                   | Stage & Studio | 750   | 120   | P28s       | 15000  | 2000                | T5    | 12      |           |
| EGJ       | 54654          | EGJ                   | Stage & Studio | 1000  | 120   | P28s       | 25500  | 400                 | T6    | 12      |           |
| EGK       | 54656          | EGK                   | Stage & Studio | 1000  | 120   | P28s       | 24500  | 400                 | T6    | 12      |           |
| EGN       | 54659          | EGN                   | Stage & Studio | 500   | 120   | G22        | 13000  | 100                 | T6    | 12      |           |



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## STUDIO, THEATRE, TV &amp; VIDEO

| ANSI Code | Product Number | Ordering Abbreviation | Application               | Watts | Volts | Base   | Lumens | Avg Rated Life(hrs) | Bulb | Pkg Qty | Footnotes |
|-----------|----------------|-----------------------|---------------------------|-------|-------|--------|--------|---------------------|------|---------|-----------|
| EGR       | 54662          | EGR                   | Stage & Studio            | 750   | 120   | G22    | 20000  | 200                 | T7   | 12      |           |
| EGT       | 54664          | EGT                   | Stage & Studio            | 1000  | 120   | G22    | 27500  | 250                 | T6   | 12      |           |
| EGW       | 58637          | EGW 64535             | Stage & Studio            | 650   | 120   | GX6.35 | 20000  | 15                  | T8   | 25      |           |
| EHC/EHB   | 54506          | EHC/EHB               | Stage & Studio            | 500   | 120   | G9.5   | 13000  | 300                 | T4   | 12      |           |
| EHD       | 54508          | EHD                   | Stage & Studio            | 500   | 120   | G9.5   | 10600  | 2000                | T4   | 12      |           |
| EHF       | 54510          | EHF                   | Stage & Studio            | 750   | 120   | G9.5   | 20400  | 300                 | T5   | 12      |           |
| EHG       | 54512          | EHG                   | Stage & Studio            | 750   | 120   | G9.5   | 15400  | 2000                | T5   | 12      |           |
| EHP       | 58942          | EHP                   | Stage & Studio            | 300   | 120   | R7s    | 5000   | 2500                | T4   | 12      |           |
| EHR       | 58936          | EHR                   | Stage & Studio            | 400   | 120   | R7s    | 7500   | 2000                | T4   | 12      |           |
| EHZ       | 54550          | EHZ                   | Stage & Studio            | 300   | 120   | R7s    | 5900   | 2000                | T2.5 | 12      | 14        |
| EJG       | 54598          | EJG                   | Stage & Studio            | 750   | 120   | R7s    | 20600  | 400                 | T3   | 12      |           |
| EKB       | 54837          | EKB                   | Stage & Studio            | 420   | 120   | GZ9.5  | 11000  | 75                  | T6   | 24      |           |
| FAD       | 54574          | FAD                   | Stage & Studio            | 650   | 120   | R7s    | 16500  | 100                 | T4   | 12      |           |
| FAL       | 58860          | FAL                   | Projector, Stage & Studio | 420   | 120   | R7s    | 11000  | 75                  | T4   | 24      | 14        |
| FCB       | 54483          | FCB                   | Projector, Stage & Studio | 600   | 120   | R7s    | 16500  | 75                  | T4   | 24      |           |
| FCM       | 54442          | FCM                   | Stage & Studio            | 1000  | 120   | R7s    | 28000  | 400                 | T3   | 12      |           |
| FDA       | 54471          | FDA                   | Stage & Studio            | 400   | 120   | R7s    | 10400  | 250                 | T4   | 12      | 14        |
| FDB       | 54435          | FDB                   | Stage & Studio            | 1500  | 120   | R7s    | 41200  | 400                 | T4   | 12      |           |
| FDN       | 54534          | FDN                   | Stage & Studio            | 500   | 120   | R7s    | 12800  | 400                 | T2.5 | 12      |           |
| FEL       | 54570          | FEL                   | Stage & Studio            | 1000  | 120   | G9.5   | 27500  | 300                 | T6   | 12      |           |
| FEP/220   | 54636          | FEP/220               | Stage & Studio            | 1000  | 220   | G9.5   | 23000  | 150                 | T6   | 12      |           |
| FEP/240   | 54515          | FEP/240               | Stage & Studio            | 1000  | 240   | G9.5   | 23000  | 150                 | T6   | 12      | 15        |
| FER       | 54571          | FER                   | Stage & Studio            | 1000  | 120   | RX7s   | 27500  | 500                 | T6   | 12      |           |
| FEV       | 54441          | FEV                   | Stage & Studio            | 200   | 120   | BA15d  | 5500   | 50                  | T4   | 12      |           |
| FEX/230   | 54514          | FEX/230 64781         | Stage & Studio            | 2000  | 230   | RX7s   | 50000  | 300                 | T8   | 12      | 12        |
| FEX/240   | 54518          | FEX/240 64781         | Stage & Studio            | 2000  | 240   | RX7s   | 50000  | 300                 | T8   | 12      |           |
| FEY       | 54559          | FEY                   | Stage & Studio            | 2000  | 120   | RX7s   | 57400  | 400                 | T8   | 12      |           |
| FFJ       | 54488          | FFJ                   | Stage & Studio            | 600   | 120   | R7s    | 16500  | 75                  | T4   | 24      | 14        |
| FFM       | 58862          | FFM                   | Stage & Studio            | 420   | 120   | R7s    | 11000  | 75                  | T4   | 24      | 14        |
| FFT       | 54350          | FFT                   | Stage & Studio            | 1000  | 120   | R7s    | 27000  | 300                 | T3   | 12      |           |
| FHM       | 54532          | FHM                   | Stage & Studio            | 1000  | 120   | R7s    | 27300  | 300                 | T3   | 12      |           |
| FKW       | 54711          | FKW                   | Stage & Studio            | 300   | 120   | GY9.5  | 7800   | 200                 | T6   | 24      |           |
| FLK       | 54589          | FLK                   | Stage & Studio            | 575   | 115   | G9.5   | 16500  | 300                 | T5   | 12      | 16        |
| FMR       | 54412          | FMR                   | Stage & Studio            | 600   | 120   | GY9.5  | 12500  | 2000                | T5   | 24      |           |
| FRG       | 54629          | FRG                   | Stage & Studio            | 500   | 120   | GY9.5  | 13000  | 150                 | T6   | 24      |           |
| FRK       | 54631          | FRK                   | Stage & Studio            | 650   | 120   | GY9.5  | 16900  | 200                 | T6   | 24      |           |
| FSH       | 54436          | FSH                   | Projector, Stage & Studio | 125   | 120   | G5.3   | 2500   | 200                 | T3   | 24      |           |
| FTK       | 54875          | FTK                   | Stage & Studio            | 500   | 120   | GY9.5  | 12000  | 200                 | T6   | 24      |           |
| FVL       | 54459          | FVL                   | Stage & Studio            | 200   | 120   | GX5.3  | 5200   | 200                 | T4   | 24      |           |
| FVM       | 54434          | FVM                   | Stage & Studio            | 105   | 120   | GX5.3  | 2250   | 250                 | T4   | 24      |           |
| GCA       | 54428          | GCA                   | Projector - Video, Studio | 250   | 120   | G5.3   | 5700   | 200                 | T3   | 24      |           |

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**STUDIO, THEATRE, TV & VIDEO**

| ANSI Code | Product Number | Ordering Abbreviation | Application                   | Watts | Volts | Base       | Lumens | Avg Rated Life(hrs) | Bulb  | Pkg Qty | Footnotes |
|-----------|----------------|-----------------------|-------------------------------|-------|-------|------------|--------|---------------------|-------|---------|-----------|
| GKV       | 54511          | GKV                   | Stage & Studio                | 600   | 230   | G9.5       | 14000  | 300                 | T6    | 25      | 5         |
| GLA       | 54516          | GLA 575/115/2000      | Stage & Studio                | 575   | 115   | G9.5       | 10500  | 2000                | T6    | 12      | 17        |
| GLC       | 54507          | GLC 575/115/300       | Stage & Studio                | 575   | 115   | G9.5       | 15500  | 300                 | T6    | 12      | 17,18     |
| GLF       | 54460          | GLF                   | Stage & Studio                | 235   | 230   | G5.3       | 5100   | 100                 | T4    | 24      |           |
|           | 20607          | STUDIOLINE 55W/3200   | Compact Fluorecent /Studio-TV | 55    |       | 2G11       | 3800   | 8000                | T5    | 10      |           |
|           | 20608          | STUDIOLINE 55W/5600   | Compact Fluorecent /Studio-TV | 55    |       | 2G11       | 3800   | 8000                | T5    | 10      |           |
|           | 54001          | 64501                 | Stage & Studio                | 150   | 120   | GX6.35     | 4500   | 25                  | T4    | 25      |           |
|           | 54232          | 64614                 | Projector, Video, Studio      | 75    | 12    | G5.3-4.8   |        | 25                  | T2.5  | 20      |           |
|           | 54499          | 4515 PAR36 30W        | Stage & Studio                | 30    | 6     | Screw Term | 67000  | 100                 | PAR36 | 12      |           |
|           | 54549          | HPR 575/115           | Stage & Studio                | 575   | 115   | G9.5       | 18000  | 300                 | T5    | 12      | 16        |
|           | 54602          | HPL750/115 (UCF)      | Stage & Studio                | 750   | 115   |            | 21900  | 300                 | T6    | 12      | 19        |
|           | 54603          | HPL750/230 (UCF)      | Stage & Studio                | 750   | 230   | Special    | 19750  | 300                 | T6    | 12      | 19        |
|           | 54604          | HPL550/77/X (UCF)     | Stage & Studio                | 550   | 77    |            | 12160  | 2000                | T6    | 12      | 19        |
|           | 54605          | HPL750/120 (UCF)      | Stage & Studio                | 750   | 120   | Special    | 21900  | 300                 | T6    | 12      | 19        |
|           | 54611          | HPL750/115/X (UCF)    | Stage & Studio                | 750   | 115   |            | 16400  | 1500                | T6    | 12      | 19        |
|           | 54614          | HPL750/240 (UCF)      | Stage & Studio                | 750   | 240   | Special    | 19750  | 300                 | T6    | 12      | 19        |
|           | 54618          | HPL575/230 (UCF)      | Stage & Studio                | 575   | 230   | Special    | 14900  | 400                 | T6    | 12      | 19        |
|           | 54619          | HPL575/240 (UCF)      | Stage & Studio                | 575   | 240   | Special    | 14900  | 400                 | T6    | 12      | 19        |
|           | 54622          | HPL575/115 (UCF)      | Stage & Studio                | 575   | 115   |            | 16520  | 300                 | T6    | 12      | 19        |
|           | 54623          | HPL550/77 (UCF)       | Stage & Studio                | 550   | 77    |            | 16170  | 300                 | T6    | 12      | 19        |
|           | 54625          | HPL375/115 (UCF)      | Stage & Studio                | 375   | 115   |            | 10540  | 300                 | T6    | 12      | 19        |
|           | 54649          | HPL375/115/X (UCF)    | Stage & Studio                | 375   | 115   |            | 8000   | 1000                | T8    | 12      | 19        |
|           | 54653          | HPL750/120/X (UCF)    | Stage & Studio                | 750   | 120   | Special    | 16400  | 1500                | T6    | 12      | 19        |
|           | 54807          | HPL575/115/X (UCF)    | Stage & Studio                | 575   | 115   |            | 12360  | 2000                | T6    | 12      | 19        |
|           | 54813          | HPL550/64 (UCF)       | Stage & Studio                | 550   | 64    | Special    | 16340  | 300                 | T6    | 12      | 19        |
|           | 54815          | HPL575/120/X (UCF)    | Stage & Studio                | 575   | 120   | Special    | 12360  | 2000                | T6    | 12      | 19        |
|           | 54817          | HPL575/120 (UCF)      | Stage & Studio                | 575   | 120   | Special    | 16460  | 300                 | T6    | 12      | 19        |
|           | 54822          | HPL575/100 (UCF)      | Stage & Studio                | 575   | 100   | Special    | 16730  | 300                 | T6    | 12      | 19        |
|           | 54825          | HPL750/77 (UCF)       | Stage & Studio                | 750   | 77    |            | 22950  | 300                 | T6    | 12      | 19        |
|           | 58636          | 64515                 | Stage & Studio                | 300   | 230   | GX6.35     | 8500   | 15                  | T5    | 25      | 12        |
|           | 58639          | 64573                 | Stage & Studio                | 1000  | 120   | GX6.35     | 33000  | 15                  | T8    | 25      |           |
|           | 58640          | 64575                 | Stage & Studio                | 1000  | 230   | GX6.35     | 33000  | 15                  | T8    | 25      | 12        |

**LARGE PAR**

| ANSI Code | Product Number | Ordering Abbreviation | Application    | Watts | Volts | Base           | Lumens | Avg Rated Life(hrs) | Bulb  | Pkg Qty | Footnotes |
|-----------|----------------|-----------------------|----------------|-------|-------|----------------|--------|---------------------|-------|---------|-----------|
| EXC/230   | 56280          | EXC/230               | Stage & Studio | 1000  | 230   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20,21     |
| EXC/240   | 56232          | EXC/240               | Stage & Studio | 1000  | 240   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20,21     |
| EXD/230   | 56281          | EXD/230               | Stage & Studio | 1000  | 230   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20        |
| EXD/240   | 56233          | EXD/240               | Stage & Studio | 1000  | 240   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20        |
| EXE/230   | 56283          | EXE/230               | Stage & Studio | 1000  | 230   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20        |

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LARGE PAR**

| ANSI Code | Product Number | Ordering Abbreviation | Application       | Watts | Volts | Base           | Lumens | Avg Rated Life(hrs) | Bulb  | Pkg Qty | Footnotes |
|-----------|----------------|-----------------------|-------------------|-------|-------|----------------|--------|---------------------|-------|---------|-----------|
| EXE/240   | 56234          | EXE/240               | Stage & Studio    | 1000  | 240   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20        |
| EXG       | 56282          | EXG/230               | Stage & Studio    | 1000  | 230   | Ext Mog End Pr |        | 300                 | PAR64 | 6       | 20,22     |
| FFN       | 56214          | FFN                   | Stage & Studio    | 1000  | 120   | Ext Mog End Pr |        | 800                 | PAR64 | 6       | 20,23     |
| FFP       | 56215          | FFP                   | Stage & Studio    | 1000  | 120   | Ext Mog End Pr |        | 800                 | PAR64 | 6       | 20,21     |
| FFR       | 56217          | FFR                   | Stage & Studio    | 1000  | 120   | Ext Mog End Pr |        | 800                 | PAR64 | 6       | 20,24     |
| FFS       | 56216          | FFS                   | Stage & Studio    | 1000  | 120   | Ext Mog End Pr |        | 800                 | PAR64 | 6       | 20,22     |
|           | 14974          | 350PAR56/SP           | Train Ditch Light | 350   | 75    | MEP            |        | 750                 | PAR56 | 12      | 20        |

**SPECIAL PURPOSE HEAT LAMPS**

| ANSI Code | Product Number | Ordering Abbreviation | Watts | Volts | Base              | Lumens | Avg Rated Life(hrs) | Bulb | Pkg Qty | Footnotes   |
|-----------|----------------|-----------------------|-------|-------|-------------------|--------|---------------------|------|---------|-------------|
| FRN       | 54588          | FRN 2000T8Q           | 2000  | 120   | G9.5              | 56500  | 200                 | T8   | 12      | 25,26       |
|           | 54007          | 64514                 | 300   | 120   | GX6.35            | 7700   | 75                  | T6   | 25      | 25,26       |
|           | 54008          | 64516/300T6/CL        | 300   | 230   | GX6.35            | 7300   | 75                  | T6   | 25      | 12,25,26    |
|           | 54546          | 750/120/T5/RTP        | 750   | 120   | G9.5              | 15400  | 2000                | T5   | 15      | 25,26       |
|           | 54560          | 1000T0/RTP/CR/BULK    | 1000  | 120   | G9.5              | 25000  | 2000                | T6   | 15      | 25,26,27    |
|           | 54584          | 1000Q/T6/RTPFS        | 1000  | 120   | G9.5              | 27500  | 300                 | T6   | 12      | 25,26       |
|           | 54633          | 1500Q/T6/RTPGS        | 1500  | 120   | G9.5              | 42000  | 300                 | T6   | 12      |             |
|           | 54752          | 1000T6QRT/P/X         | 1000  | 120   | G9.5              | 25000  | 2000                | T6   | 12      |             |
|           | 59803          | 2500T3Q/IR/7 480V     | 2500  | 480   | RSC               |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59822          | 500T3Q/IR/7 120V      | 500   | 120   | RSC               |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59841          | 1600T3Q/IR/7 240V     | 1600  | 240   | RSC               |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59850          | 500T3Q/IR 120V        | 500   | 120   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59859          | 3650T3Q/IR/CL 480V    | 3650  | 480   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59860          | 1000T3Q/IR 230-250V   | 1000  | 240   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59864          | 1600T3Q/IR 240V       | 1600  | 240   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59867          | 2500T3Q/IR 480V       | 2500  | 480   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59870          | 3800T3Q/IR 570V       | 3800  | 570   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |
|           | 59934          | 1200T3Q/IR/CL/HT 144V | 1200  | 144   | Flex Nickel Leads |        | 3000                | T3   | 12      | 25,28,29,30 |
|           | 59936          | 1600T3Q/IR 277V       | 1600  | 277   | Flex Nickel Leads |        | 5000                | T3   | 12      | 25,26,28    |

**AIRCRAFT**

| Watts | Bulb  | Volts | Base       | Product Number | Ordering Abbreviation | Application                                    | Beam Type | CBCP   | Filament | Avg Rated Life(hrs) | MOL (mm) | Pkg Qty | Footnotes |
|-------|-------|-------|------------|----------------|-----------------------|--|-----------|--------|----------|---------------------|----------|---------|-----------|
| 100   | T3    | 12    | PG22       | 54032          | 64621 HLX             | Projector, Microfilm, Stage & Studio, Aircraft |           |        |          | 2000                | 48       | 30      |           |
| 250   | PAR46 | 28    | Screw Term | 15399          | 4551                  | Aircraft Taxiing                               | VNSP      | 75000  | CC-6     | 25                  | 95.25    | 12      | 23        |
| 450   | PAR46 | 28    | Screw Term | 56229          | Q4681                 | Aircraft Landing / Taxiway                     | VNSP      | 310000 | CC-6     | 50                  | 63.5     | 12      | 20,23     |
| 600   | PAR64 | 28    | Screw Term | 14936          | 4559                  | Aircraft Landing / Taxiway                     | VNSP      | 600000 | CC-8     | 25                  | 101.6    | 6       | 23        |
|       |       |       |            | 56222          | Q4559                 | Aircraft Landing / Taxiway                     | VNSP      | 600000 | CC-8     | 100                 | 101.6    | 6       | 20,23     |

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| Watts | Bulb  | Volts | Base       | Product Number | Ordering Abbreviation | Application                | Beam Type | CBCP   | Filament | Avg Rated Life(hrs) | MOL (mm) | Pkg Qty | Footnotes |
|-------|-------|-------|------------|----------------|-----------------------|----------------------------|-----------|--------|----------|---------------------|----------|---------|-----------|
| 600   | PAR64 | 28    | Screw Term | 56223          | Q4559X                | Aircraft Landing / Taxiway | VNSP      | 765000 | CC-8     | 100                 | 101.6    | 6       | 20,23     |
| 1000  | PAR64 | 28    | Screw Term | 14988          | 4557                  | Aircraft Landing/Taxiway   | VNSP      | 540000 | CC-8     | 25                  | 101.6    | 6       | 23        |
|       |       |       |            | 14994          | 5557                  | Aircraft Landing/Taxiway   | VNSP      | 540000 | CC-8     | 50                  | 101.6    | 6       | 23,31     |

**AIRFIELD**

| Watts | Bulb    | Base           | Product Number     | Ordering Abbreviation         | Application        | Current (A) | Lumens | Filament | Avg Rated Life(hrs) | LCL (mm) | MOL (mm) | Pkg Qty | Footnotes |
|-------|---------|----------------|--------------------|-------------------------------|--------------------|-------------|--------|----------|---------------------|----------|----------|---------|-----------|
| 30    | MR16    | Special        | 58537              | 6.6A/30MR16/64331A/SP         | Airfield/Airport   | 6.6         |        |          |                     |          |          | 10      |           |
|       |         |                | 58730              | 6.6A/30MR16/64331AC/FL        | Airfield / Airport | 6.6         |        |          | 1000                |          |          |         | 10        |
|       | T3.5    | GZ9.5          | 58779              | 6.6A/30T3.5/64322/EXL/DL      | Airfield/Airport   | 6.6         | 400    | C-8      | 2000                | 16       | 58       | 30      |           |
|       | T10     | Med Prefocus   | 17980              | 6.6A/30T10/1P                 | Airfield/Airport   | 6.6         | 400    | C-2V     | 1000                | 38.1     | 100      | 60      |           |
| 40    | MR11    | PK30d          | 58787              | 6.6A/40MR11/64333B            | Airfield / Airport | 6.6         |        |          | 1500                |          |          | 10      | 33        |
| 45    | MR16    | Special        | 58545              | 6.6A/45MR16/64337A45-15       | Airfield / Airport | 6.6         | 19000  |          | 1500                |          |          | 10      |           |
|       |         |                | 58758              | 6.6A/45MR16/64337B45-15       | Airfield / Airport | 6.6         |        |          | 1500                |          |          | 10      | 33        |
|       | T3      | R7s            | 58704              | 6.6A/45T3/CL/64315            | Airfield/Airport   | 6.6         | 750    | C-8      | 1000                | 23       | 47.5     | 25      |           |
|       | T3.5    | GZ9.5          | 58775              | 6.6A/45T3.5/64320/EXM         | Airfield/Airport   | 6.6         | 875    | C-8      | 1000                | 25.4     | 44.5     | 100     |           |
|       |         |                | 58813              | 6.6A/45T3.5Q/64321            | Airfield / Airport | 6.6         | 840    | C-8      | 1200                | 33       | 50       | 100     |           |
|       | T4      | PK30d          | 58697              | 6.6A/45T4/64319 FEMALE        | Airfield/Airport   | 6.6         | 800    | C-8      | 1000                | 20       | 53       | 100     | 34,35     |
| 58705 |         |                | 6.6A/45T4/CL/64317 | Airfield/Airport              | 6.6                | 800         | C-8    | 1000     | 16                  | 58       | 100      | 35      |           |
|       | Special | 58722          | 6.6A/45T4/64319Z   | Airfield/Airport              | 6.6                | 800         | C-8    | 1000     | 20                  | 53       | 100      | 36,37   |           |
|       | T10     | Med Prefocus   | 17981              | 6.6A/45T10/P                  | Airfield/Airport   | 6.6         | 675    | C-2V     | 1000                | 38.1     | 100      | 60      |           |
| 48    | MR16    | Special        | 58711              | 6.6A/48MR16/64338AC           | Airfield / Airport | 6.6         |        |          | 1000                |          |          | 10      |           |
|       |         |                | 58792              | 6.6A/48MR16/64337A48-15       | Airfield/Airport   | 6.6         | 20000  |          | 1500                |          |          | 10      | 35        |
| 65    | T4      | Special        | 58726              | 6.6A/65T4/64328Z/HLX          | Airfield/Airport   | 6.6         | 1450   | C Bar 6  | 1000                | 20       | 53       | 100     | 37,38     |
| 100   | T4      | Special        | 58703              | 6.6A/100T4/64341Z/HLX         | Airfield/Airport   | 6.6         | 2700   | C Bar 6  | 1000                | 20       | 55       | 100     | 37,39     |
|       |         |                | 58706              | 6.6A/100T4/64342/HLX          | Airfield/Airport   | 6.6         | 2700   | C Bar 6  | 1000                | 20       | 58       | 100     | 35        |
|       |         |                | 58709              | 6.6A/100T4/64341/HLX          | Airfield/Airport   | 6.6         |        | C Bar 6  | 1000                | 20       | 55       | 100     | 35        |
| 105   | MR16    | PK30d          | 58759              | 6.6A/105MR16/64339B           | Airfield/Airport   | 6.6         |        |          | 1000                |          |          | 10      | 33        |
|       |         |                | 58785              | 6.6A/105MR16/64339A           | Airfield / Airport | 6.6         |        |          | 1000                |          |          | 10      | 35        |
|       |         |                | 58816              | 6.6A/105MR16/64339C           | Airfield / Airport | 6.6         |        |          | 1000                |          |          | 10      | 37        |
| 115   | T4      | GY9.5          | 58794              | 6.6A/115T4Q/58798/2PPF/EVV    | Airfield/Airport   | 6.6         | 2900   | C Bar 6  | 1000                | 39.1     | 57       | 30      | 40,41     |
|       |         |                | 58819              | 6.6A/115T4Q/DCR/DL            | Airfield/Airport   | 6.6         |        | C Bar 6  | 1000                | 26.9     | 60.3     | 100     |           |
| 150   | T4      | PK30d          | 58717              | 6.6A/150T4/64361/HLX          | Airfield/Airport   | 6.6         | 3600   | C Bar 6  | 1000                | 20       | 58       | 100     | 35,42     |
|       |         |                | 58724              | 6.6A/150T4Q/64361Z/HLX        | Airfield/Airport   | 6.6         | 3600   | C Bar 6  | 1000                | 20       | 58       | 100     | 37        |
|       |         |                | 58777              | 6.6A/150T4Q/64354/EWR/DL      | Airfield/Airport   | 6.6         | 4000   | C Bar 6  | 1500                | 39.1     | 65       | 30      | 40,41     |
| 175   | T4      | GY9.5          | 58795              | 6.6A/175T4Q/58799/2PPF/DL     | Airfield/Airport   | 6.6         | 4700   | C Bar 6  | 1000                | 39.1     | 57       | 30      | 41,43     |
| 200   | PAR64   | Ext Mog End Pr | 14985              | 6.6A/200PAR64/2               | Airfield/Airport   | 6.6         |        | CC-6     | 1000                |          | 114.3    | 6       |           |
|       |         |                | 56220              | 6.6A/200PAR64Q/2P             | Airfield/Airport   | 6.6         |        | CC-6     | 2000                |          | 114.3    | 6       | 20,44     |
|       | T4      | PK30d          | 58649              | 6.6A/200T4/64382A/HLX         | Airfield/Airport   | 6.6         | 4800   | CC-6     | 1000                | 20       | 64       | 100     |           |
|       |         |                | 58708              | 6.6A/200T4/64382/HLX          | Airfield/Airport   | 6.6         | 4800   | CC-6     | 1000                | 20       | 64       | 100     | 45        |
|       |         |                | 58789              | 6.6A/200T4Q/2PPF/58750/EZL/DL | Airfield/Airport   | 6.6         | 5200   | CC-6     | 1000                | 39.1     | 57.0     | 30      | 40,41     |

## AIRFIELD

| Watts | Bulb | Base         | Product Number | Ordering Abbreviation | Application        | Current (A) | Lumens | Filament | Avg Rated Life(hrs) | LCL (mm) | MOL (mm) | Pkg Qty | Footnotes |
|-------|------|--------------|----------------|-----------------------|--------------------|-------------|--------|----------|---------------------|----------|----------|---------|-----------|
| 200   | T4   | G6.35        | 58815          | 6.6A/200T4Q/64386     | Airfield / Airport | 6.6         | 4700   | C Bar 6  | 1200                | 33       | 47       | 100     |           |
|       |      |              | 58821          | 6.6A/200T4Q/CL/DCR/DL | Airfield/Airport   | 6.6         | 5000   | CC-6     | 1000                | 27       | 80.9     | 100     |           |
|       | T5   | R7s          | 58707          | 6.6A/200T5/CL/64380   | Airfield/Airport   | 6.6         | 4400   | CC-8     | 1000                | 21.3     | 60.2     | 25      |           |
| 204   | T14  | Med Prefocus | 17983          | 6.6A/204T14/2P        | Airfield/Airport   | 6.6         | 4220   | C-13     | 500                 | 55.5     | 146      | 24      |           |

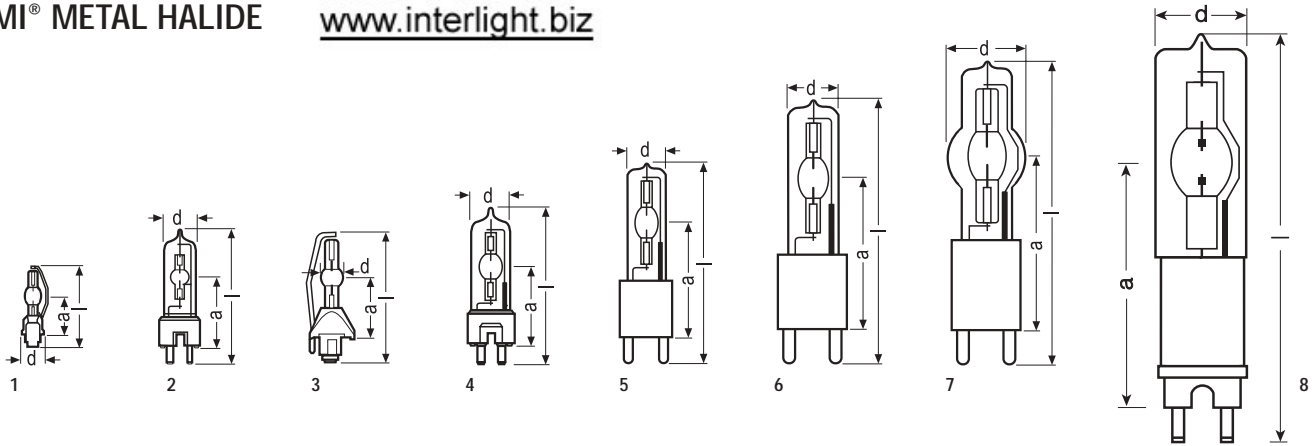
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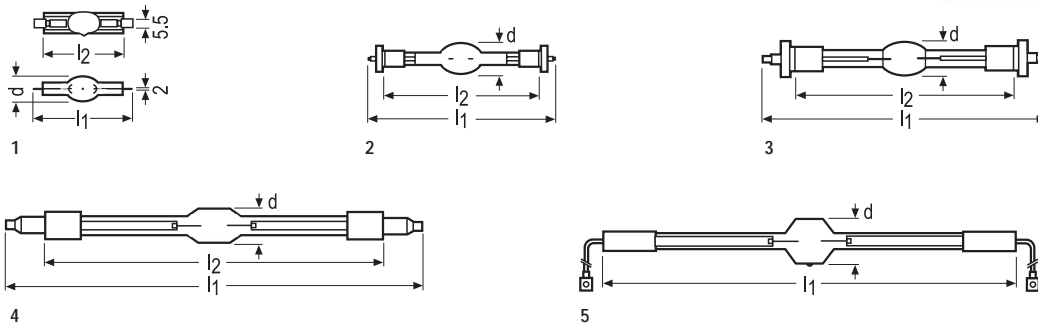
| Ordering Abbreviation     | HMI 123 W          | HMI 200 W/SE | HMI 250 W/SE | HMI 400 W/SE | HMI 575 W/SE |
|---------------------------|--------------------|--------------|--------------|--------------|--------------|
| Product Number            | 54059 <sup>2</sup> | 54061        | 54062        | 54137        | 54063        |
| Watts (W)                 | 125                | 200          | 270          | 400          | 575          |
| Volts (V)                 | 80                 | 70           | 50           | 70           | 95           |
| Current (A)               | 1.7                | 3.0          | 5.0          | 6.9          | 7.0          |
| Lumens (lm)               | 8500               | 16000        | 16200        | 33000        | 49000        |
| Color Temp (K)            | 6000               | 6000         | 6000         | 6000         | 6000         |
| Length l max (mm)         | 64                 | 80           | 84           | 110          | 145          |
| Distance a (mm)           | 26.7               | 39           | 35           | 60           | 70           |
| Diameter d (mm)           | 10                 | 20           | 12           | 23           | 30           |
| Electrode Gap - cold (mm) | 4                  | 5            | 5            | 6            | 7            |
| Avg Rated Life (hrs)      | 150                | 200          | 250          | 650          | 750          |
| Operating Position        | Any                | Any          | p 45         | Any          | Any          |
| Base                      | Special            | GZY9.5       | FaX1.5       | GZZ9.5       | G22          |
| Hot Restart               | Yes                | Yes          | Yes          | Yes          | Yes          |
| Fig No                    | 1                  | 2            | 3            | 4            | 5            |
| Symbols & Footnotes       | 1                  | 1            | 1,2,3        | 4            | 4            |

**HMI® SINGLE-ENDED**

| Ordering Abbreviation     | HMI 1200 W/SE | HMI 2500 W/SE | HMI 4000 W/SE | HMI 6000 W/SE | HMI 12000 W/SE |
|---------------------------|---------------|---------------|---------------|---------------|----------------|
| Product Number            | 54067         | 54070         | 54072         | 54099         | 54113          |
| Watts (W)                 | 1200          | 2500          | 4000          | 6000          | 12000          |
| Volts (V)                 | 100           | 115           | 200           | 123           | 160            |
| Current (A)               | 13.8          | 25.6          | 24.0          | 55            | 84             |
| Lumens (lm)               | 110000        | 240000        | 380000        | 600000        | 1150000        |
| Color Temp (K)            | 6000          | 6000          | 6000          | 6000          | 6000           |
| Length l max (mm)         | 200           | 225           | 250           | 360           | 450            |
| Distance a (mm)           | 107           | 127           | 142           | 210           | 255            |
| Diameter d (mm)           | 42            | 60            | 75            | 75            | 100            |
| Electrode Gap - cold (mm) | 10            | 14            | 20            | 23            | 27             |
| Avg Rated Life (hrs)      | 750           | 500           | 500           | 500           | 300            |
| Operating Position        | Any           | Any           | Any           | s 135         | s 135          |
| Base                      | G38           | G38           | G38           | GX38          | GX38           |
| Hot Restart               | Yes           | Yes           | Yes           | Yes           | Yes            |
| Fig No                    | 6             | 7             | 7             | 8             | 8              |
| Symbols & Footnotes       | 4             | 4             | 4             | 4,5,6         | 4,5,6          |

PHOTO OPTIC DISCHARGE

**HMI® METAL HALIDE**



**HMI® DOUBLE-ENDED**

| Ordering Abbreviation          | HMI 200 W | HMI 575 W/GS | HMI 1200 W/GS | HMI 1200 W/S | HMI 2500 W/GS |
|--------------------------------|-----------|--------------|---------------|--------------|---------------|
| Product Number                 | 54060     | 54098        | 54066         | 54088        | 54069         |
| Watts (W)                      | 200       | 575          | 1200          | 1200         | 2500          |
| Volts (V)                      | 80        | 95           | 100           | 100          | 115           |
| Current (A)                    | 3.1       | 7.0          | 13.8          | 13.8         | 25.6          |
| Lumens (lm)                    | 14000     | 49000        | 110000        | 110000       | 240000        |
| Color Temp (K)                 | 6000      | 6000         | 6000          | 6000         | 6000          |
| Length l <sub>1</sub> max (mm) | 75        | 135          | 220           | 135          | 355           |
| Length l <sub>2</sub> max (mm) | 60        | 115          | 180           | 115          | 290           |
| Diameter d (mm)                | 14        | 21           | 27            | 21           | 31.5          |
| Electrode Gap - cold (mm)      | 10        | 7            | 10            | 7            | 14            |
| Avg Rated Life (hrs)           | 300       | 1000         | 750           | 750          | 500           |
| Operating Position             | p 15      | Any          | Any           | Any          | p 30          |
| Base                           | X515      | SFc10-4      | SFc15.5       | SFc10-4      | SFa21         |
| Hot Restart                    | Yes       | Yes          | Yes           | Yes          | Yes           |
| Fig No                         | 1         | 2            | 3             | 2            | 4             |
| Symbols & Footnotes            | 4         | 4,7          | 4,7           | 4,8,9        | 4,7           |

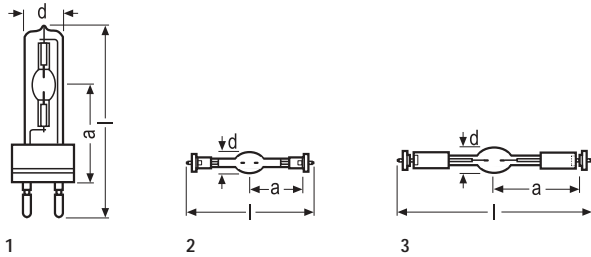
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| Ordering Abbreviation          | HMI 2500 W/S | HMI 4000 W | HMI 6000 W | HMI 12000 W/GS | HMI 18000 W |
|--------------------------------|--------------|------------|------------|----------------|-------------|
| Product Number                 | 54068        | 54071      | 54073      | 54074          | 54075       |
| Watts (W)                      | 2500         | 4000       | 6000       | 12000          | 18000       |
| Volts (V)                      | 115          | 200        | 123        | 160            | 225         |
| Current (A)                    | 25.6         | 24.0       | 55.0       | 84.0           | 88.0        |
| Lumens (lm)                    | 240000       | 380000     | 570000     | 1150000        | 1700000     |
| Color Temp (K)                 | 6000         | 6000       | 6000       | 6000           | 6000        |
| Length l <sub>1</sub> max (mm) | 210          | 405        | 450        | 470            | 500         |
| Length l <sub>2</sub> max (mm) | 150          | 340        |            |                |             |
| Diameter d (mm)                | 31.5         | 36         | 54         | 64             | 70          |
| Electrode Gap - cold (mm)      | 14           | 34         | 21         | 25             | 44          |
| Avg Rated Life (hrs)           | 500          | 500        | 500        | 500            | 250         |
| Operating Position             | p 30         | p 15       | p 15       | p 15           | p 15        |
| Base                           | SFa21        | SFa21      | S25.5      | S30            | S30         |
| Hot Restart                    | Yes          | Yes        | Yes        | Yes            | Yes         |
| Fig No                         | 4            | 4          | 5          | 5              | 5           |
| Symbols & Footnotes            | 4,8,9        | 4,10       | 4          | 4,7            | 4,10        |

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| Ordering Abbreviation     | HMP 575 SE |
|---------------------------|------------|
| Product Number            | 54145      |
| Watts (W)                 | 575        |
| Volts (V)                 | 100        |
| Current (A)               | 6.7        |
| Lumens (lm)               | 49000      |
| Color Temp (K)            | 6000       |
| Length l (mm)             | 145        |
| Distance a (mm)           | 70         |
| Diameter d (mm)           | 30         |
| Electrode Gap - cold (mm) | 7          |
| Avg Rated Life (hrs)      | 1000       |
| Operating Position        | Any        |
| Base                      | G22        |
| Hot Restart               | Yes        |
| Fig No                    | 1          |
| Symbols & Footnotes       | 4,11       |

## HMP® DOUBLE-ENDED

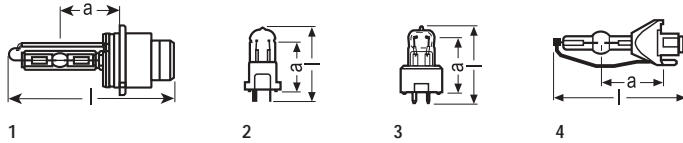
| Ordering Abbreviation     | HMP 400 DE | HMP 575 DE |
|---------------------------|------------|------------|
| Product Number            | 54146      | 54144      |
| Watts (W)                 | 400        | 575        |
| Volts (V)                 | 100        | 100        |
| Current (A)               | 4.8        | 6.7        |
| Lumens (lm)               | 33000      | 49000      |
| Color Temp (K)            | 6000       | 6000       |
| Length l (mm)             | 92         | 135        |
| Distance a (mm)           | 35         | 57.5       |
| Diameter d (mm)           | 16         | 21.5       |
| Electrode Gap - cold (mm) | 5.5        | 7          |
| Avg Rated Life (hrs)      | 750        | 1000       |
| Operating Position        | p 45       | Any        |
| Base                      | SFXc10-4   | SFXc10-4   |
| Hot Restart               | Yes        | Yes        |
| Fig No                    | 2          | 3          |
| Symbols & Footnotes       | 4,12,13    | 4,11       |



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## HTI® SINGLE-ENDED

| Ordering Abbreviation                   | HTI S 35/12 | HTI 150 W | HTI 152 W |
|---|-------------|-----------|-----------|
| Product Number                          | 69000       | 54078     | 54079     |
| Watts (W)                               | 35          | 150       | 150       |
| Volts (V)                               | 85          | 90        | 95        |
| Current (A)                             | 2.5         | 1.8       | 1.8       |
| Lumens (lm)                             | 3200        | 9500      | 9500      |
| Average Luminance (cd/cm <sup>2</sup> ) | 6500        | 5000      | 4200      |
| Color Temp (K)                          | 4250        | 6500      | 5000      |
| Length l max (mm)                       | 79.5        | 46        | 48        |
| Distance a (mm)                         | 27.1        | 30        | 30        |
| Electrode Gap - cold (mm)               | 4.2         | 5.0       | 6.75      |
| Avg Rated Life (hrs)                    | 3000        | 750       | 2000      |
| Operating Position                      | p 10        | Any       | Any       |
| Base                                    | P32d-2      | GY9.5     | GY9.5     |
| Hot Restart                             | Yes         | No        | No        |
| Fig No                                  | 1           | 2         | 3         |
| Symbols & Footnotes                     | 1,2         | 4,14      | 4         |

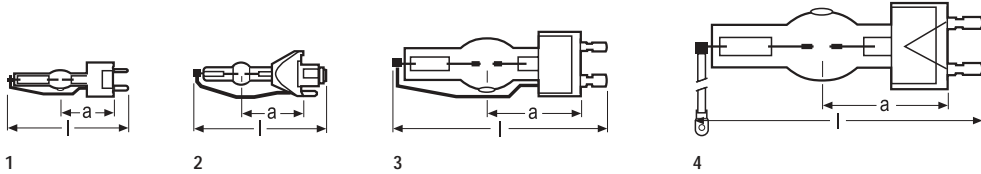
## HTI® SINGLE-ENDED

| Ordering Abbreviation                   | HTI 250 W/SE | HTI 400 W/SE      | HTI 404 W/SE        |
|---|--------------|-------------------|---------------------|
| Product Number                          | 54091        | 54084             | 54106 <sup>23</sup> |
| Watts (W)                               | 270          | 400               | 400                 |
| Volts (V)                               | 45           | 55                | 55                  |
| Current (A)                             | 6            | 7.3               | 7.3                 |
| Lumens (lm)                             | 10000        | 28000             | 28000               |
| Average Luminance (cd/cm <sup>2</sup> ) | 40000        | 30000             | 40000               |
| Color Temp (K)                          | 4900         | 4800              | 6000                |
| Length l max (mm)                       | 80           | 84                | 84                  |
| Distance a (mm)                         | 35           | 35                | 35                  |
| Electrode Gap - cold (mm)               | 2.5          | 4.0               | 3.0                 |
| Avg Rated Life (hrs)                    | 250          | 250               | 500                 |
| Operating Position                      | p 45         | p 45              | p 45                |
| Base                                    | FaX1.5       | FaX1.5            | FaX1.5              |
| Hot Restart                             | Yes          | Yes               | Yes                 |
| Fig No                                  | 4            | 4                 | 4                   |
| Symbols & Footnotes                     | 1,2,3,15     | 1,2,3,15,16,17,18 | 1,15,16             |

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HTI® SINGLE-ENDED

| Ordering Abbreviation                   | HTI 405 W/SE   | HTI 600 W/SE | HTI 705 W/SE |
|---|----------------|--------------|--------------|
| Product Number                          | 54139          | 54087        | 54130        |
| Watts (W)                               | 400            | 600          | 700          |
| Volts (V)                               | 55             | 95           | 70           |
| Current (A)                             | 7.3            | 7.7          | 10           |
| Lumens (lm)                             | 28000          | 48000        | 59000        |
| Average Luminance (cd/cm <sup>2</sup> ) | 40000          | 25000        |              |
| Color Temp (K)                          | 5800           | 5300         | 5700         |
| Length l max (mm)                       | 80             | 84           | 85           |
| Distance a (mm)                         | 36.5           | 35           | 39           |
| Electrode Gap - cold (mm)               | 3.0            | 5.5          | 4            |
| Avg Rated Life (hrs)                    | 500            | 300          | 500          |
| Operating Position                      | p 45           | p 45         | p 45         |
| Base                                    | GY9.5          | FaX1.5       | GY9.5        |
| Hot Restart                             | No             | Yes          | No           |
| Fig No                                  | 1              | 2            | 1            |
| Symbols & Footnotes                     | 1,2,6,15,17,18 | 3,4,15,16    | 6,15         |

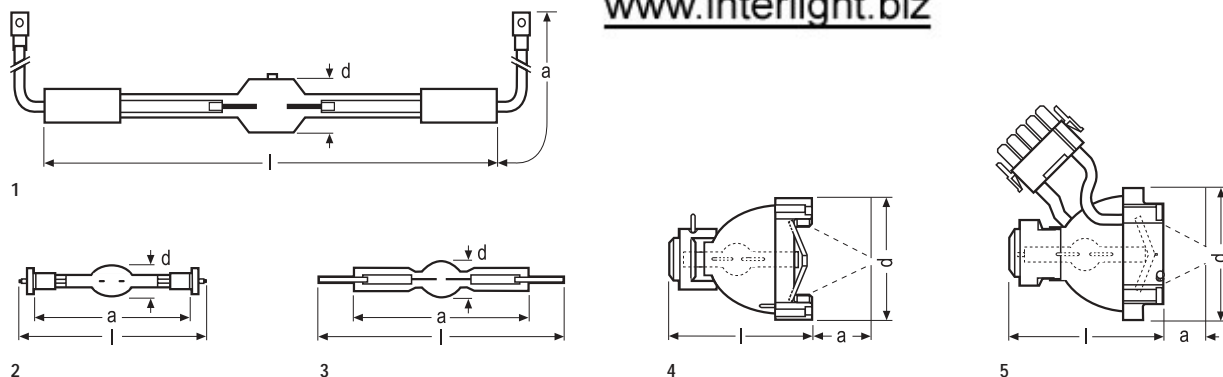
HTI® SINGLE-ENDED

| Ordering Abbreviation                   | HTI 1200 W/SE | HTI 2500 W/SE |  |
|---|---------------|---------------|--|
| Product Number                          | 54141         | 54142         |  |
| Watts (W)                               | 1200          | 2500          |  |
| Volts (V)                               | 100           | 115           |  |
| Current (A)                             | 13.8          | 25.6          |  |
| Lumens (lm)                             | 99000         | 240000        |  |
| Average Luminance (cd/cm <sup>2</sup> ) | 26000         | 30000         |  |
| Color Temp (K)                          | 4500          | 6000          |  |
| Length l max (mm)                       | 135           | 180           |  |
| Distance a (mm)                         | 59            | 85            |  |
| Electrode Gap - cold (mm)               | 7             | 14            |  |
| Avg Rated Life (hrs)                    | 600           | 600           |  |
| Operating Position                      | s 135         | s 135         |  |
| Base                                    | GY22          | G22+ Cable    |  |
| Hot Restart                             | Yes           | Yes           |  |
| Fig No                                  | 3             | 4             |  |
| Symbols & Footnotes                     | 4,6,15,19     | 4,6,20        |  |

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**HTI® DOUBLE-ENDED**

| Ordering Abbreviation                   | HTI 300 W/DEL | HTI 300 W/DX | HTI 600 W/D | HTI 700 W/DE | HTI 4000 W/DE |
|---|---------------|--------------|-------------|--------------|---------------|
| Product Number                          | 54112         | 54143        | 54140       | 54117        | 54133         |
| Watts (W)                               | 300           | 300          | 600         | 700          | 4000          |
| Volts (V)                               | 85            | 100          | 95          | 73           | 115           |
| Current (A)                             | 4.3           | 3.6          | 7.7         | 10           | 39.0          |
| Lumens (lm)                             | 20000         | 22000        | 48000       | 59000        | 360000        |
| Average Luminance (cd/cm <sup>2</sup> ) |               | 20000        | 25000       |              | 35000         |
| Color Temp (K)                          | 5700          | 6500         | 5300        | 5600         | 6300          |
| Length L max (mm)                       | 92            | 92           | 75          | 135          | 270           |
| Distance a (mm)                         | 70            | 70           | 59          | 115          | 140           |
| Diameter d (mm)                         | 16            | 16           | 16          | 18           | 40            |
| Electrode Gap - cold (mm)               | 5.5           | 5.5          | 5.5         | 4            | 15            |
| Avg Rated Life (hrs)                    | 3000          | 750          | 300         | 750          | 500           |
| Operating Position                      | p 45          | p 45         | p 45        | Any          | p 30          |
| Base                                    | SFc10-4       | SFc10-4      | Special     | Special      | S25.5         |
| Hot Restart                             | Yes           | Yes          | Yes         | Yes          | Yes           |
| Fig No                                  | 1             | 1            | 2           | 1            | 3             |
| Symbols & Footnotes                     | 4             | 4,21         | 4           | 4,6          | 4             |

**HTI® WITH DICHOIC REFLECTOR**

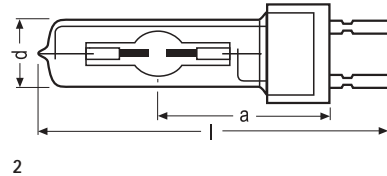
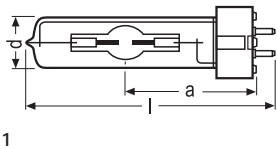
| Ordering Abbreviation     | HTI 250 W/22 | HTI 250 W/32 | HTI 250 W/32C | HTI 400 W/24 | HTI 403 W/24 |
|---------------------------|--------------|--------------|---------------|--------------|--------------|
| Product Number            | 54080        | 54081        | 54089         | 54083        | 54104        |
| Watts (W)                 | 270          | 270          | 270           | 400          | 400          |
| Volts (V)                 | 45           | 45           | 45            | 55           | 55           |
| Current (A)               | 6            | 6            | 6             | 7.3          | 7.3          |
| Color Temp (K)            | 5600         | 5600         | 5600          | 5600         | 5600         |
| Length L max (mm)         | 73           | 73           | 73            | 73           | 73           |
| Working Distance a (mm)   | 22           | 32           | 32            | 24           | 24           |
| Diameter d (mm)           | 67           | 67           | 67            | 67           | 67           |
| Electrode Gap - cold (mm) | 2.5          | 2.5          | 2.5           | 4.0          | 4.0          |
| Avg Rated Life (hrs)      | 250          | 250          | 250           | 250          | 750          |
| Operating Position        | P 20         | P 20         | P 20          | P 20         | P 20         |
| Hot Restart               | Yes          | Yes          | Yes           | Yes          | YES          |
| Fig No                    | 4            | 4            | 5             | 5            | 5            |
| Symbols & Footnotes       | 1            | 1,22         | 4             | 1            | 1            |

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### HSR® WITH OUTER JACKET

| Ordering Abbreviation                   | HSR 400/60 | HSR 575/60 | HSR 575/72 |
|---|------------|------------|------------|
| Product Number                          | 54102      | 54115      | 54116      |
| Watts (W)                               | 400        | 575        | 575        |
| Volts (V)                               | 67         | 95         | 95         |
| Current (A)                             | 6.9        | 7          | 7          |
| Lumens (lm)                             | 33000      | 49000      | 49000      |
| Average Luminance (cd/cm <sup>2</sup> ) | 20000      | 10000      | 10000      |
| Color Temp (K)                          | 5900       | 6000       | 7200       |
| Length l (mm)                           | 110        | 125        | 125        |
| Distance a (mm)                         | 62         | 65         | 65         |
| Diameter d (mm)                         | 23         | 30         | 30         |
| Electrode Gap - cold (mm)               | 5          | 7          | 7          |
| Avg Rated Life (hrs)                    | 650        | 1000       | 1000       |
| Operating Position                      | Any        | Any        | Any        |
| Base                                    | GX9.5      | GX9.5      | GX9.5      |
| Hot Restart                             | No         | No         | No         |
| Fig No                                  | 1          | 1          | 1          |
| Symbols & Footnotes                     | 4          | 4          | 4          |

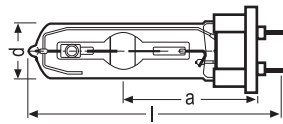
### HSR® WITH OUTER JACKET

| Ordering Abbreviation                   | HSR 700/60 | HSR 1200/60 |  |
|---|------------|-------------|--|
| Product Number                          | 54107      | 54168       |  |
| Watts (W)                               | 700        | 1200        |  |
| Volts (V)                               | 72         | 100         |  |
| Current (A)                             | 11         | 13.8        |  |
| Lumens (lm)                             | 58000      | 110000      |  |
| Average Luminance (cd/cm <sup>2</sup> ) | 10000      | 20000       |  |
| Color Temp (K)                          | 6000       | 6000        |  |
| Length l (mm)                           | 155        | 175         |  |
| Distance a (mm)                         | 75         | 85          |  |
| Diameter d (mm)                         | 30         | 40          |  |
| Electrode Gap - cold (mm)               | 8          | 10          |  |
| Avg Rated Life (hrs)                    | 1000       | 1000        |  |
| Operating Position                      | Any        | Any         |  |
| Base                                    | G22        | G22         |  |
| Hot Restart                             | No         | No          |  |
| Fig No                                  | 2          | 2           |  |
| Symbols & Footnotes                     | 4          | 4           |  |

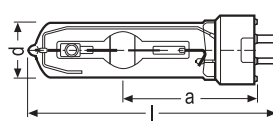
# HSD® METAL HALIDE

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1



2

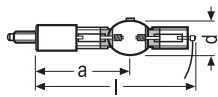
## HSD® WITH OUTER JACKET

| Ordering Abbreviation     | HSD 150/70 | HSD 200/60 | HSD 250/60 | HSD 250/78 | HSD 575/72 |
|---------------------------|------------|------------|------------|------------|------------|
| Product Number            | 54119      | 54167      | 54170      | 54118      | 54129      |
| Watts (W)                 | 150        | 200        | 250        | 250        | 575        |
| Volts (V)                 | 97         | 70         | 90         | 90         | 88         |
| Current (A)               | 1.8        | 3.3        | 3.1        | 3.1        | 7.4        |
| Lumens (lm)               | 12000      | 13000      | 17000      | 17000      | 45000      |
| Color Temp (K)            | 7000       | 6000       | 6000       | 7800       | 7200       |
| Length l (mm)             | 105        | 108        | 110        | 108        | 135        |
| Distance a (mm)           | 56         | 55         | 55         | 55         | 65         |
| Diameter d (mm)           | 20         | 23         | 23         | 23         | 30         |
| Electrode Gap - cold (mm) | 5.5        | 5          | 5          | 5          | 7          |
| Avg Rated Life (hrs)      | 2000       | 2000       | 2000       | 3000       | 3000       |
| Operating Position        | Any        | Any        | Any        | Any        | Any        |
| Base                      | G12        | GY9.5      | GY9.5      | GY9.5      | GX9.5      |
| Hot Restart               | No         | No         | No         | No         | No         |
| Fig No                    | 1          | 2          | 2          | 2          | 2          |
| Symbols & Footnotes       | 4,23       | 4          | 4,24       | 4          | 4          |

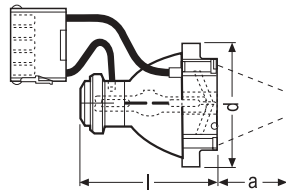
# VIP® VIDEO AND DATA PROJECTION

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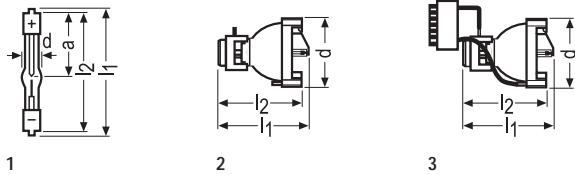
| Ordering Abbreviation                   | VIP S 170/13           | VIP R 273/45           |
|---|------------------------|------------------------|
| Product Number                          | 69320                  | 69327                  |
| Watts (W)                               | 170                    | 270                    |
| Volts (V)                               | 85                     | 38                     |
| Current (A)                             | 2.0                    | 7.1                    |
| Lumens (lm)                             | 11900                  | 17000                  |
| Average Luminance (cd/cm <sup>2</sup> ) | 30000                  | 100000                 |
| Color Temp (K)                          | 9000                   | 5800                   |
| Length l (mm)                           | 62                     | 73                     |
| Distance a (mm)                         | 35                     | 45                     |
| Diameter d (mm)                         | 13                     | 67                     |
| Arc Length (mm)                         | 5                      | 1.9                    |
| Avg Rated Life (hrs)                    | 4000                   | 1000                   |
| Operating Position                      | Horizontal, tip-off up | Horizontal, tip-off up |
| Base                                    | SFc10-4                |                        |
| Hot Restart                             | Yes                    | Yes                    |
| Fig No                                  | 1                      | 2                      |
| Symbols & Footnotes                     | 1,25                   | 1,25,26                |

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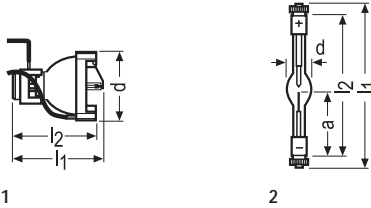


| Ordering Abbreviation                   | XBO 75 W/2  | XBO 75 W/2 OFR | XBO 100 W OFR | XBO R 100 W/45 OFR | XBO R 100 W/45C OFR |
|---|-------------|----------------|---------------|--------------------|---------------------|
| Product Number                          | 69231       | 69232          | 69233         | 69197              | 69191               |
| Watts (W)                               | 75          | 75             | 100           | 100                | 100                 |
| Volts (V)                               | 14          | 14             | 14            | 13                 | 13                  |
| Type of Current                         | DC          | DC             | DC            | DC                 | DC                  |
| Current (A)                             | 5.4         | 5.4            | 7.0           | 7.0                | 7.0                 |
| Current Control Range (A)               |             |                |               |                    |                     |
| Lumens (lm)                             | 1000        | 1000           | 1900          |                    |                     |
| Luminous Intensity (cd)                 | 100         | 100            | 270           |                    |                     |
| Average Luminance (cd/cm <sup>2</sup> ) | 40000       | 40000          | 31000         |                    |                     |
| Luminous Area -- w x h (mm)             | 0.25 x 0.5  | 0.25 x 0.5     | 0.4 x 0.8     | 0.4 x 0.9          | 0.4 x .09           |
| Length l <sub>1</sub> max (mm)          | 90          | 90             | 90            | 83                 | 83                  |
| Length l <sub>2</sub> max (mm)          | 82          | 82             | 82            | 75                 | 75                  |
| Distance a (mm)                         | 43          | 43             | 44.5          |                    |                     |
| Diameter d (mm)                         | 10          | 10             | 11            | 67                 | 67                  |
| Avg Rated Life Vertical (hrs)           | 400         | 400            | 500           |                    |                     |
| Avg Rated Life Horizontal (hrs)         | 400         | 400            |               | 500                | 500                 |
| Operating Position                      | s 105       | s 105          | s 105         | p 15               | p 15                |
| Forced Cooling                          |             |                | Required      | Required           | Required            |
| Base Anode                              | SFa9-2      | SFa7.5-2       | SFa9-2        |                    |                     |
| Base Cathode                            | SFa7.5-2    | SFa7.5-2       | SFa7.5-2      |                    |                     |
| Fig No                                  | 1           | 1              | 1             | 2                  | 3                   |
| Symbols & Footnotes                     | 27,28,29,30 | 28,29,30,31    | 29,30,31      | 28,29,31,32,33,34  | 28,29,30,31,34      |

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| Ordering Abbreviation                   | XBO R 101 W/45C OFR | XBO 150 W/1    | XBO 150 W/1 OFR | XBO 150 W/4 |
|---|---------------------|----------------|-----------------|-------------|
| Product Number                          | 69190               | 69234          | 69235           | 69238       |
| Watts (W)                               | 100                 | 150            | 150             | 150         |
| Volts (V)                               | 13                  | 20             | 20              | 20          |
| Type of Current                         | DC                  | DC             | DC              | DC          |
| Current (A)                             | 7.0                 | 7.5            | 7.5             | 7.5         |
| Current Control Range (A)               |                     |                |                 |             |
| Lumens (lm)                             |                     | 3000           | 3000            | 3000        |
| Luminous Intensity (cd)                 |                     | 300            | 300             | 300         |
| Average Luminance (cd/cm <sup>2</sup> ) |                     | 15000          | 15000           | 15000       |
| Luminous Area -- w x h (mm)             |                     | 0.5 x 2.2      | 0.5 x 2.2       | 0.5 x 2.2   |
| Length l <sub>1</sub> max (mm)          | 83                  | 150            | 150             | 150         |
| Length l <sub>2</sub> max (mm)          | 75                  | 127            | 127             | 127         |
| Distance a (mm)                         |                     | 57             | 57              | 57          |
| Diameter d (mm)                         | 67                  | 20             |                 | 20          |
| Avg Rated Life Vertical (hrs)           |                     | 1200           | 1200            | 1200        |
| Avg Rated Life Horizontal (hrs)         | 500                 |                |                 |             |
| Operating Position                      | p 15                | s 15           | s 15            | s 15        |
| Forced Cooling                          | Required            | Required       | Required        | Required    |
| Base Anode                              |                     | SFc12-4        | SFc12-4         | SFc12-4     |
| Base Cathode                            |                     | SFcX12-4       | SFcX12-4        | SFcX12.4    |
| Fig No                                  | 1                   | 2              | 2               | 2           |
| Symbols & Footnotes                     | 28,31,34,35,36      | 28,29,30,37,38 | 28,29,30,31,38  | 28,29,30,39 |

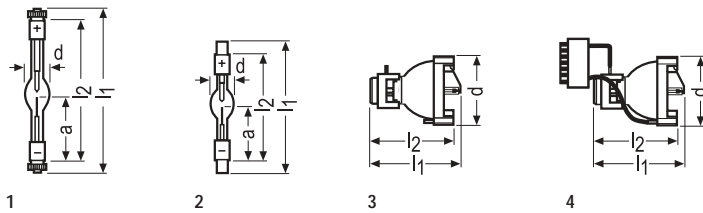
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| Ordering Abbreviation                   | XBO 150 W/CR OFR  | XBO 150 W/S   | XBO R 180 W/45/OFR | XBO R 180 W/45C OFR |
|---|-------------------|---------------|--------------------|---------------------|
| Product Number                          | 69237             | 69236         | 69186              | 69183               |
| Watts (W)                               | 150               | 150           | 180                | 180                 |
| Volts (V)                               | 18                | 20            | 14                 | 14                  |
| Type of Current                         | DC                | DC            | DC                 | DC                  |
| Current (A)                             | 8.5               | 7.5           | 12                 | 12                  |
| Current Control Range (A)               |                   |               |                    |                     |
| Lumens (lm)                             | 2900              | 2200          |                    |                     |
| Luminous Intensity (cd)                 | 290               | 220           |                    |                     |
| Average Luminance (cd/cm <sup>2</sup> ) | 20000             | 18000         |                    |                     |
| Luminous Area -- w x h (mm)             | 0.5 x 1.6         | 0.5 x 1.9     |                    |                     |
| Length l <sub>1</sub> max (mm)          | 150               | 117           | 90                 | 90                  |
| Length l <sub>2</sub> max (mm)          | 127               | 96            | 75                 | 75                  |
| Distance a (mm)                         | 57                | 47.5          |                    |                     |
| Diameter d (mm)                         | 20                | 20            | 67                 | 67                  |
| Avg Rated Life Vertical (hrs)           | 3000              | 1000          | 500                | 500                 |
| Avg Rated Life Horizontal (hrs)         | 1200              | 800           |                    |                     |
| Operating Position                      | s15 p15           | s15 p15       | p 15               | p 15                |
| Forced Cooling                          | Required          | Required      | Required           | Required            |
| Base Anode                              | SFc12-4           | SFa12-11      |                    |                     |
| Base Cathode                            | SFcX12-4          | SFa12-11      |                    |                     |
| Fig No                                  | 1                 | 2             | 3                  | 4                   |
| Symbols & Footnotes                     | 28,29,30,31,40,41 | 8,28,29,30,40 | 28,29,30,31,34,42  | 28,29,30,31,34,35   |

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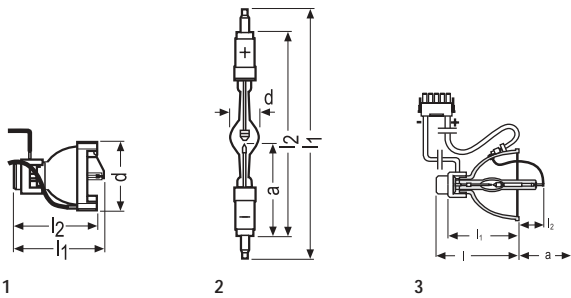


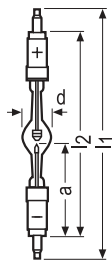
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| Ordering Abbreviation                   | XBO R 181 W/45C OFR  | XBO 250 W OFR      | XBO R 300 W/60C OFR | XBO 450 W      |
|---|----------------------|--------------------|---------------------|----------------|
| Product Number                          | 69184                | 69239 <sup>2</sup> | 69167               | 69241          |
| Watts (W)                               | 180                  | 250                | 300                 | 450            |
| Volts (V)                               | 14                   | 13                 | 17                  | 17             |
| Type of Current                         | DC                   | DC                 | DC                  | DC             |
| Current (A)                             | 12                   | 18                 | 16                  | 25             |
| Current Control Range (A)               |                      | 14-20              | 14 - 19             | 17-30          |
| Lumens (lm)                             |                      | 4800               |                     | 13000          |
| Luminous Intensity (cd)                 |                      | 530                |                     | 1300           |
| Average Luminance (cd/cm <sup>2</sup> ) |                      | 26000              |                     | 35000          |
| Luminous Area -- w x h (mm)             |                      | 0.7 x 1.7          |                     | 0.9 x 2.7      |
| Length l <sub>1</sub> max (mm)          | 90                   | 226                | 62                  | 260            |
| Length l <sub>2</sub> max (mm)          | 75                   | 192                | 30                  | 212            |
| Distance a (mm)                         |                      | 93                 | 60                  | 95.5           |
| Diameter d (mm)                         | 67                   | 25                 | 82.5                | 29             |
| Avg Rated Life Vertical (hrs)           | 500                  | 1200               |                     | 2000           |
| Avg Rated Life Horizontal (hrs)         |                      |                    | 1000                |                |
| Operating Position                      | p 15                 | s 15               | p20                 | s 30           |
| Forced Cooling                          | Required             | Required           | Required            | Required       |
| Base Anode                              |                      | SFa16-8            |                     | SFa20-8        |
| Base Cathode                            |                      | SFa16-10           |                     | SFa20-10       |
| Fig No                                  | 1                    | 2                  | 3                   | 2              |
| Symbols & Footnotes                     | 28,29,30,31,34,35,36 | 28,29,30,31        | 28,29,30,31,35,43   | 28,29,30,44,45 |

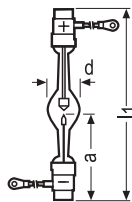
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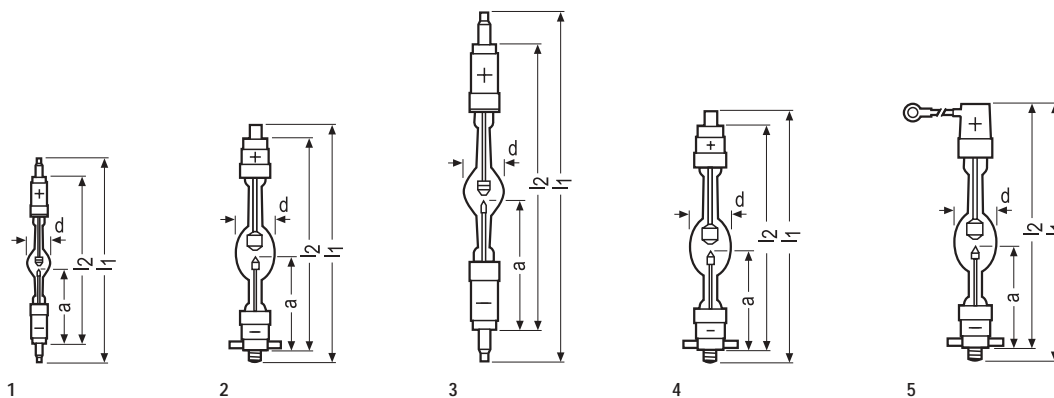
2

| Ordering Abbreviation                   | XBO 450 W OFR | XBO 450 W/1 | XBO 450 W/2 OFR | XBO 450 W/4 |
|---|---------------|-------------|-----------------|-------------|
| Product Number                          | 69245         | 69242       | 69243           | 69244       |
| Watts (W)                               | 450           | 450         | 450             | 450         |
| Volts (V)                               | 17            | 17          | 17              | 17          |
| Type of Current                         | DC            | DC          | DC              | DC          |
| Current (A)                             | 25            | 25          | 25              | 25          |
| Current Control Range (A)               | 17-30         | 17-30       | 17-30           | 17-30       |
| Lumens (lm)                             | 13000         | 13000       | 13000           | 13000       |
| Luminous Intensity (cd)                 | 1300          | 1300        | 1300            | 1300        |
| Average Luminance (cd/cm <sup>2</sup> ) | 35000         | 45000       | 35000           | 35000       |
| Luminous Area -- w x h (mm)             | 0.9 x 2.7     | 0.7 x 2.2   | 0.9 X 2.7       | 0.9 x 2.7   |
| Length l <sub>1</sub> max (mm)          | 260           | 260         | 177             | 260         |
| Length l <sub>2</sub> max (mm)          | 212           | 212         |                 | 212         |
| Distance a (mm)                         | 95.5          | 95.5        | 79              | 95.5        |
| Diameter d (mm)                         | 29            | 29          | 29              | 29          |
| Avg Rated Life Vertical (hrs)           | 2000          | 800         | 2000            | 2000        |
| Avg Rated Life Horizontal (hrs)         |               | 800         |                 |             |
| Operating Position                      | s 30          | s 100       | s 30            | s 30        |
| Forced Cooling                          | Required      | Required    | Required        | Required    |
| Base Anode                              | SFa20-8       | SFa20-8     | SK19/36         | SFa20-8     |
| Base Cathode                            | SFa20-10      | SFa20-10    | SK19/36         | SFa20-10    |
| Fig No                                  | 1             | 1           | 2               | 1           |
| Symbols & Footnotes                     | 28,29,30,31   | 28,29,30    | 28,29,30,31     | 28,29,30,39 |

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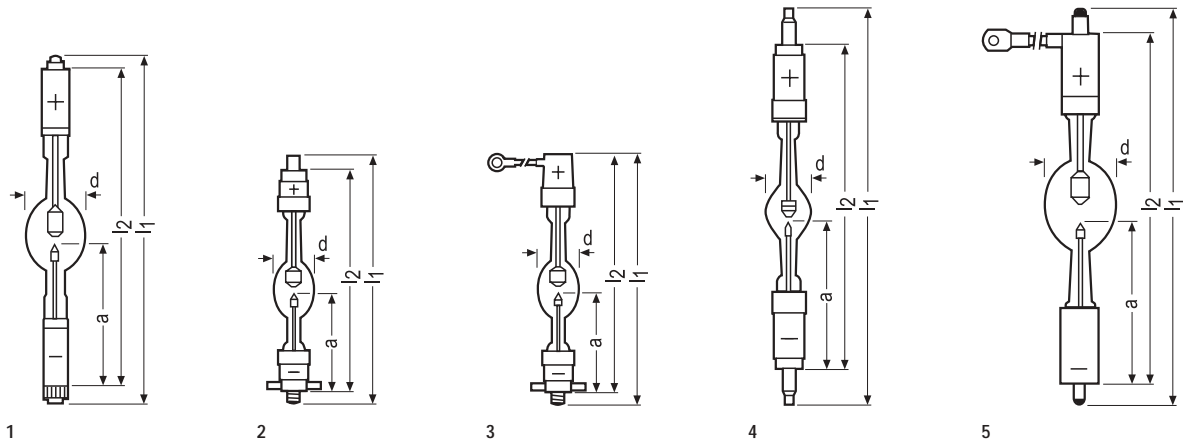


| Ordering Abbreviation                   | XBO 500 W/H OFR  | XBO 700 W/HS OFR   | XBO 900 W OFR  | XBO 1000 W/HS OFR  | XBO 1000 W/HSC OFR    |
|---|------------------|--------------------|----------------|--------------------|-----------------------|
| Product Number                          | 69257            | 69260              | 69261          | 69263              | 69264                 |
| Watts (W)                               | 500              | 700                | 900            | 1000               | 1000                  |
| Volts (V)                               | 17               | 18                 | 19             | 19                 | 19                    |
| Type of Current                         | DC               | DC                 | DC             | DC                 | DC                    |
| Current (A)                             | 28               | 37                 | 45             | 50                 | 50                    |
| Current Control Range (A)               | 17-30            | 30-45              | 30-53          | 30-55              | 30-55                 |
| Lumens (lm)                             | 14500            | 20000              | 30000          | 32000              | 32000                 |
| Luminous Intensity (cd)                 | 1450             | 2000               | 3000           | 3000               | 3000                  |
| Average Luminance (cd/cm <sup>2</sup> ) | 40000            | 40000              | 50000          | 60000              | 60000                 |
| Luminous Area -- w x h (mm)             | 0.9 x 2.5        | 1.1 x 2.9          | 1.1 x 3.3      | 1.1 x 2.8          | 1.1 x 2.8             |
| Length l <sub>1</sub> max (mm)          | 190              | 235                | 325            | 235                | 236                   |
| Length l <sub>2</sub> max (mm)          | 165              | 205                | 277            | 205                | 222                   |
| Distance a (mm)                         | 75               | 95                 | 123            | 95                 | 95                    |
| Diameter d (mm)                         | 35               | 40                 | 40             | 40                 | 40                    |
| Avg Rated Life Vertical (hrs)           | 2000             | 1500               | 2400           | 2000               | 2000                  |
| Avg Rated Life Horizontal (hrs)         | 2000             | 1500               |                | 2000               | 2000                  |
| Operating Position                      | s30 p30          | s20 p20            | s 30           | s20 p20            | s20 p20               |
| Forced Cooling                          | Required         | Required           | Required       | Required           | Required              |
| Magnetic Arc Stabilization              | Required         |                    |                |                    |                       |
| Base Anode                              | SFa16-8          | SFa27-11           | SFa25-10       | SFa27-11           | SK27/50               |
| Base Cathode                            | SFa15-10         | SFcX27-8           | SFa25-12       | SFcX27-8           | SFcX27-8              |
| Fig No                                  | 1                | 2                  | 3              | 4                  | 5                     |
| Symbols & Footnotes                     | 2,28,29,30,31,46 | 2,8,28,29,30,31,46 | 28,29,30,31,46 | 2,8,28,29,30,31,46 | 2,8,28,29,30,31,35,46 |

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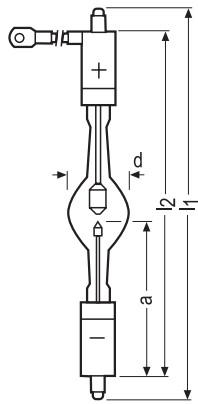


| Ordering Abbreviation                   | XBO 1000 W/HTP OFR | XBO 1600 W/HS OFR  | XBO 1600 W/HSC OFR    | XBO 1600 W OFR | XBO 1600 W/CA OFR |
|---|--------------------|--------------------|-----------------------|----------------|-------------------|
| Product Number                          | 69265              | 69268              | 69269                 | 69266          | 69267             |
| Watts (W)                               | 1000               | 1550               | 1550                  | 1600           | 1600              |
| Volts (V)                               | 21                 | 23                 | 23                    | 24             | 24                |
| Type of Current                         | DC                 | DC                 | DC                    | DC             | DC                |
| Current (A)                             | 45                 | 65                 | 65                    | 65             | 65                |
| Current Control Range (A)               | 30-55              | 50-70              | 50-70                 | 45-75          | 45-75             |
| Lumens (lm)                             | 35000              | 70000              | 60000                 | 60000          | 60000             |
| Luminous Intensity (cd)                 | 3200               | 5500               | 5500                  | 6000           | 6000              |
| Average Luminance (cd/cm <sup>2</sup> ) | 45000              | 70000              | 70000                 | 65000          | 65000             |
| Luminous Area -- w x h (mm)             | 1.0 x 4.0          | 1.0 x 3.2          | 1.0 x 3.2             | 1.4 x 4.0      | 1.4 x 4.0         |
| Length l <sub>1</sub> max (mm)          | 330                | 235                | 236                   | 370            | 370               |
| Length l <sub>2</sub> max (mm)          | 277                | 205                | 222                   | 322            | 322               |
| Distance a (mm)                         | 123                | 95                 | 95                    | 142.5          | 143               |
| Diameter d (mm)                         | 46                 | 46                 | 46                    | 52             | 52                |
| Avg Rated Life Vertical (hrs)           | 2400               | 2000               | 2000                  | 2400           | 2400              |
| Avg Rated Life Horizontal (hrs)         | 2400               | 2000               | 2000                  |                |                   |
| Operating Position                      | s30 p30            | s20 p20            | s20 p20               | s 30           | s 30              |
| Forced Cooling                          |                    | Required           | Required              | Required       | Required          |
| Magnetic Arc Stabilization              | Required           |                    |                       |                |                   |
| Base Anode                              | SFa25-14           | SFa27-11           | SK27/50               | SFa27-10       | SFaX27-10         |
| Base Cathode                            | SFc25-14           | SFcX27-8           | SFcX27-8              | SFa27-12       | SFa27-12          |
| Fig No                                  | 1                  | 2                  | 3                     | 4              | 5                 |
| Symbols & Footnotes                     | 2,28,29,30,31,46   | 2,8,28,29,30,31,46 | 2,8,28,29,30,31,35,46 | 28,29,30,31,46 | 28,29,30,31,46,47 |

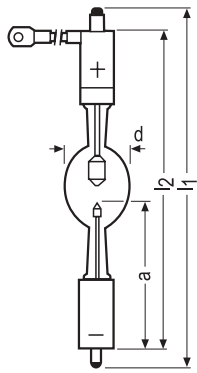
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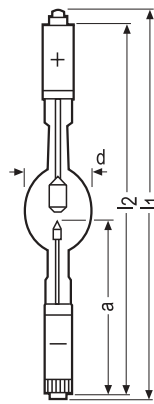
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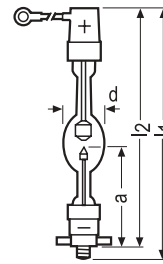
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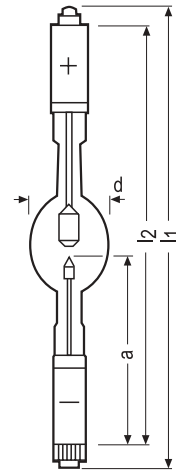
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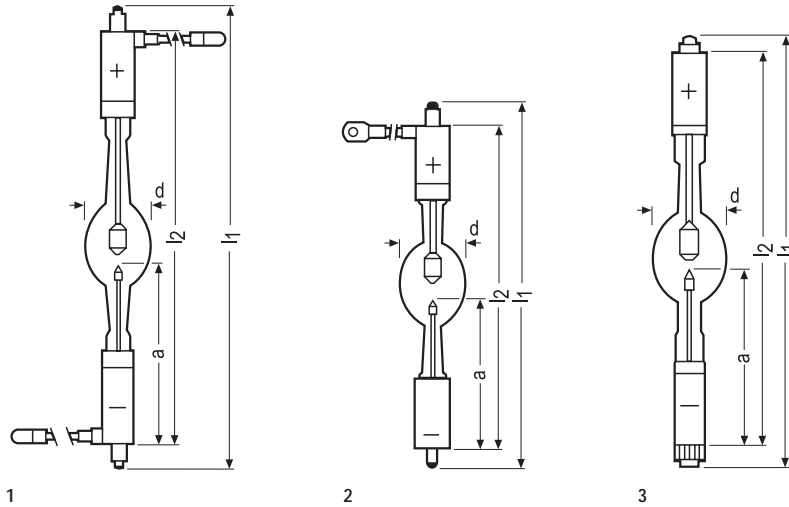
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| Ordering Abbreviation                   | XBO 2000 W/H OFR | XBO 2000 W/HS OFR  | XBO 2000 W/HTP OFR     | XBO 2000 W/SHSC OFR       | XBO 2001 W/HTP OFR        |
|---|------------------|--------------------|------------------------|---------------------------|---------------------------|
| Product Number                          | 69258            | 69270              | 69247                  | 69256                     | 69310                     |
| Watts (W)                               | 2000             | 2000               | 2000                   | 2000                      | 2000                      |
| Volts (V)                               | 28               | 25                 | 27                     | 26                        | 25                        |
| Type of Current                         | DC               | DC                 | DC                     | DC                        | DC                        |
| Current (A)                             | 70               | 80                 | 70                     | 70                        | 80                        |
| Current Control Range (A)               | 50-85            | 50-85              | 50-85                  | 50-85                     | 50-85                     |
| Lumens (lm)                             | 80000            | 80000              | 80000                  | 80000                     | 80000                     |
| Luminous Intensity (cd)                 | 7500             | 7500               | 7500                   | 7500                      | 7500                      |
| Average Luminance (cd/cm <sup>2</sup> ) | 80000            | 80000              | 75000                  | 80000                     | 75000                     |
| Luminous Area -- w x h (mm)             | 1.3 x 4.8        | 1.3 x 4.0          | 1.3 x 4.8              | 1.3 x 4.0                 | 1.3 x 4.8                 |
| Length l <sub>1</sub> max (mm)          | 370              | 342                | 375                    | 236                       | 375                       |
| Length l <sub>2</sub> max (mm)          | 322              | 302                | 322                    | 222                       | 322                       |
| Distance a (mm)                         | 142.5            | 145                | 142.5                  | 95                        | 142.5                     |
| Diameter d (mm)                         | 52               | 60                 | 52                     | 46                        | 52                        |
| Avg Rated Life Vertical (hrs)           | 2400             | 2400               | 2400                   | 2400                      | 2400                      |
| Avg Rated Life Horizontal (hrs)         | 2400             | 2400               | 2400                   | 2400                      | 2400                      |
| Operating Position                      | s30 p30          | s30 p30            | s30 p30                | s20 p20                   | s30 p30                   |
| Forced Cooling                          | Required         | Required           |                        | Required                  | Required                  |
| Magnetic Arc Stabilization              | Required         |                    | Required               |                           | Required                  |
| Base Anode                              | SFaX27-10        | SFaX27-9.5         | SFa25-14               | SK27/50                   | SFa25-14                  |
| Base Cathode                            | SFaX27-12        | SFa27-7.9          | SFc25-14               | SFcX27-8                  | SFc25-14                  |
| Fig No                                  | 1                | 2                  | 3                      | 4                         | 5                         |
| Symbols & Footnotes                     | 2,28,29,30,31,46 | 2,8,28,29,30,31,46 | 2,28,29,30,31,46,48,49 | 2,28,29,30,31,35,46,50,51 | 2,28,29,30,31,40,46,48,49 |

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| Ordering Abbreviation                   | XBO 2500 W OFR | XBO 2500 W/HS OFR  | XBO 3000 W/H OFR | XBO 3000 W/HS OFR  | XBO 3000 W/HTP OFR  |
|---|----------------|--------------------|------------------|--------------------|---------------------|
| Product Number                          | 69248          | 69249              | 69251            | 69250              | 69252               |
| Watts (W)                               | 2500           | 2500               | 3000             | 3000               | 3000                |
| Volts (V)                               | 29             | 26                 | 30               | 30                 | 30                  |
| Type of Current                         | DC             | DC                 | DC               | DC                 | DC                  |
| Current (A)                             | 85             | 90                 | 100              | 100                | 100                 |
| Current Control Range (A)               | 60-95          | 70-100             | 60-110           | 60-110             | 60-110              |
| Lumens (lm)                             | 100000         | 100000             | 130000           | 130000             | 130000              |
| Luminous Intensity (cd)                 | 9500           | 10000              | 12000            | 12000              | 12000               |
| Average Luminance (cd/cm <sup>2</sup> ) | 60000          | 80000              | 90000            | 90000              | 85000               |
| Luminous Area -- w x h (mm)             | 1.5 x 6.0      | 1.5 x 4.5          | 1.7 x 5.0        | 1.7 x 5.0          | 1.7 x 5.0           |
| Length l <sub>1</sub> max (mm)          | 428            | 342                | 428              | 342                | 405                 |
| Length l <sub>2</sub> max (mm)          | 382            | 302                | 382              | 302                | 357                 |
| Distance a (mm)                         | 167.5          | 145                | 167.5            | 145                | 162.5               |
| Diameter d (mm)                         | 60             | 60                 | 66               | 60                 | 66                  |
| Avg Rated Life Vertical (hrs)           | 2000           | 1800               | 1800             | 1800               | 1800                |
| Avg Rated Life Horizontal (hrs)         |                | 1500               | 1500             | 1500               | 1500                |
| Operating Position                      | s 30           | s30 p20            | s30 p30          | s30 p30            | s30 p30             |
| Forced Cooling                          |                | Required           | Required         | Required           | Required            |
| Magnetic Arc Stabilization              |                |                    | Required         |                    | Required            |
| Base Anode                              | SFaX27-13      | SFaX27-9.5         | SFaX27-13        | SFaX27-9.5         | SFa27-14            |
| Base Cathode                            | SFaX27-14      | SFa27-7.9          | SFa27-14         | SFa27-7.9          | SFc27-14            |
| Fig No                                  | 1              | 2                  | 2                | 2                  | 3                   |
| Symbols & Footnotes                     | 28,29,30,31,46 | 2,8,28,29,30,31,46 | 2,28,29,30,31,46 | 2,8,28,29,30,31,46 | 2,28,29,30,31,46,48 |

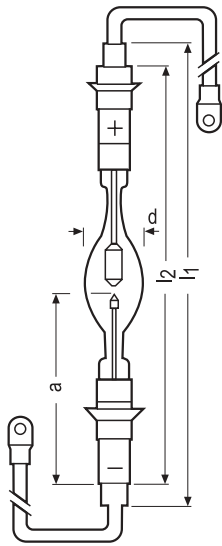
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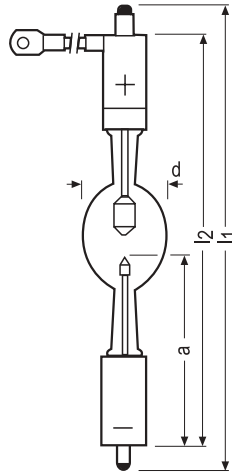
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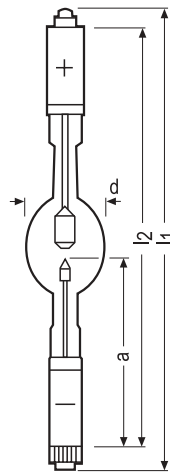
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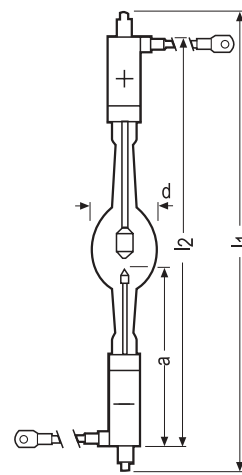
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| Ordering Abbreviation                   | XBO 4000 W OFR | XBO 4000 W/HS OFR  | XBO 4000 W/HTP OFR  | XBO 4200 W/CA OFR    | XBO 4200 W/GS OFR |
|---|----------------|--------------------|---------------------|----------------------|-------------------|
| Product Number                          | 69253          | 69254              | 69296               | 69294                | 69350             |
| Watts (W)                               | 4000           | 4000               | 4000                | 4200                 | 4200              |
| Volts (V)                               | 32             | 28                 | 31                  | 29                   | 29                |
| Type of Current                         | DC             | DC                 | DC                  | DC                   | DC                |
| Current (A)                             | 120            | 135                | 130                 | 140                  | 140               |
| Current Control Range (A)               | 80-140         | 80-150             | 100-140             | 80-160               | 80-160            |
| Lumens (lm)                             | 180000         | 155000             | 155000              | 190000               | 190000            |
| Luminous Intensity (cd)                 | 19000          | 17000              | 16000               | 20000                | 20000             |
| Average Luminance (cd/cm <sup>2</sup> ) | 70000          | 90000              | 90000               | 100000               | 100000            |
| Luminous Area -- w x h (mm)             | 2.0 x 7.5      | 1.9 x 6.0          | 1.9 x 6.0           | 2.1 x 5.7            | 2.1 x 5.7         |
| Length l <sub>1</sub> max (mm)          | 432            | 410                | 433                 | 428                  | 428               |
| Length l <sub>2</sub> max (mm)          | 384            | 370                | 382                 | 382                  | 382               |
| Distance a (mm)                         | 176            | 171                | 167.5               | 167.5                | 167.5             |
| Diameter d (mm)                         | 60             | 70                 | 70                  | 70                   | 60                |
| Avg Rated Life Vertical (hrs)           | 1000           | 1000               | 1200                | 1000                 | 500               |
| Avg Rated Life Horizontal (hrs)         |                | 1000               | 1200                |                      | 500               |
| Operating Position                      | s 15           | s20 p20            | s20 p20             | s 15                 | s 15              |
| Forced Cooling                          | Required       | Required           | Required            | Required             | Required          |
| Magnetic Arc Stabilization              |                |                    |                     |                      |                   |
| Base Anode                              | SFa30-18       | SFaX30-9.5         | SFa27-14            | SFaX27-13            | SFaX27-13         |
| Base Cathode                            | SFa30-20       | SFa30-7.9          | SFc27-14            | SFaX27-14            | SFaX27-14         |
| Fig No                                  | 1              | 2                  | 3                   | 4                    | 4                 |
| Symbols & Footnotes                     | 28,29,30,31,46 | 2,8,28,29,30,31,46 | 2,28,29,30,31,46,48 | 28,29,30,31,46,47,52 | 7,28,29,30,31,46  |

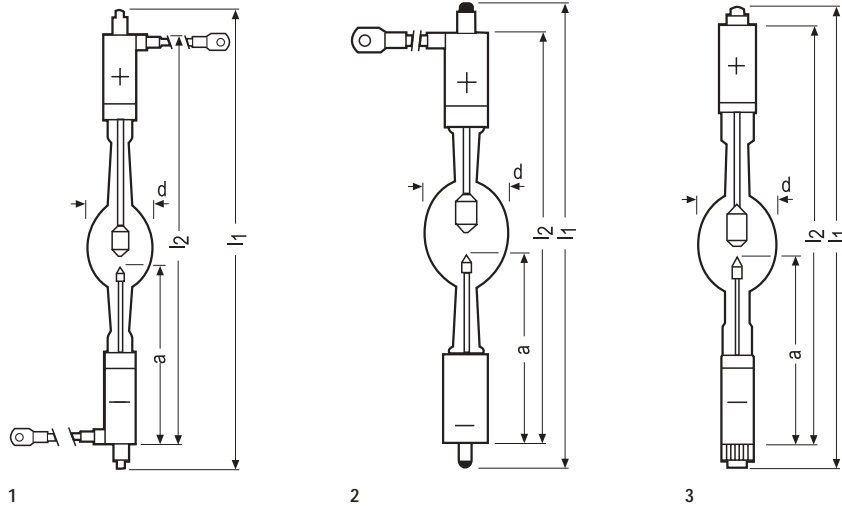
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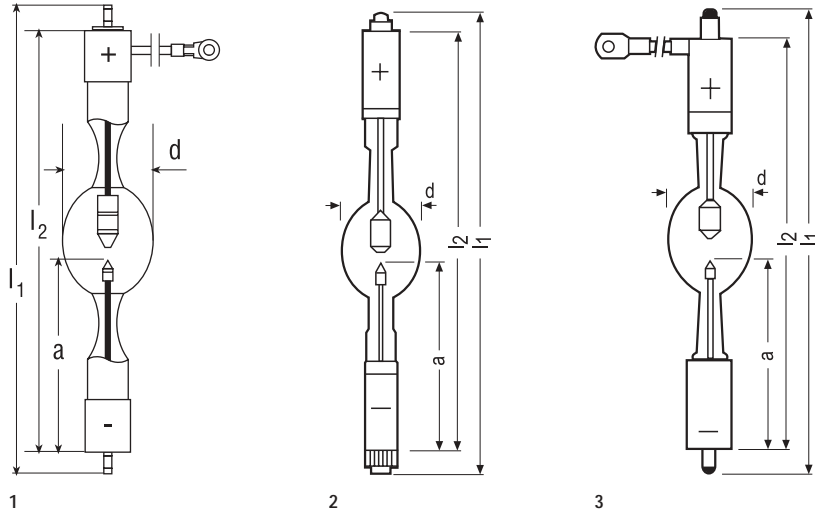


| Ordering Abbreviation                   | XBO 4500 W/HS | XBO 4500 W/HTP | XBO 5000 W/H OFR | XBO 5000 W/HTP OFR  |
|---|---------------|----------------|------------------|---------------------|
| Product Number                          | 69359*        | 69360*         | 69315            | 69336               |
| Watts (W)                               | 4500          | 4500           | 5000             | 5000                |
| Volts (V)                               | 32            | 32             | 34               | 35                  |
| Type of Current                         | DC            | DC             | DC               | DC                  |
| Current (A)                             | 135           | 135            | 140              | 140                 |
| Current Control Range (A)               | 80-150        | 100-150        | 100-150          | 100-150             |
| Lumens (lm)                             | 200000        | 200000         | 225000           | 225000              |
| Luminous Intensity (cd)                 | 20000         | 20000          | 27000            | 22000               |
| Average Luminance (cd/cm <sup>2</sup> ) | 120000        | 120000         | 95000            | 95000               |
| Luminous Area -- w x h (mm)             | 1.8 x 6.0     | 1.8 x 6.0      | 2.2 x 6.5        | 2.2 x 6.5           |
| Length l <sub>1</sub> max (mm)          | 410           | 433            | 433              | 433                 |
| Length l <sub>2</sub> max (mm)          | 370           | 370            | 382              | 382                 |
| Distance a (mm)                         | 171           | 171            | 168              | 165                 |
| Diameter d (mm)                         | 70            | 70             | 70               | 70                  |
| Avg Rated Life Vertical (hrs)           | 1000          | 1000           | 1000             | 1000                |
| Avg Rated Life Horizontal (hrs)         | 1000          | 1000           | 1000             | 1000                |
| Operating Position                      | s15 p15       | s15 p15        | s15 p15          | s15 p15             |
| Forced Cooling                          | Required      | Required       | Required         | Required            |
| Magnetic Arc Stabilization              | Required      | Required       | Required         | Required            |
| Base Anode                              | SFa30-7.9     | SFa27-14       | SFaX30-16        | SFa27-14            |
| Base Cathode                            | SFaX30-9.5    | SFc27-14       | SFa28-18         | SFc27-14            |
| Fig No                                  | 1             | 3              | 2                | 3                   |
| Symbols & Footnotes                     | 28,46         | 28,46          | 2,28,29,30,31,46 | 2,28,29,30,31,46,48 |

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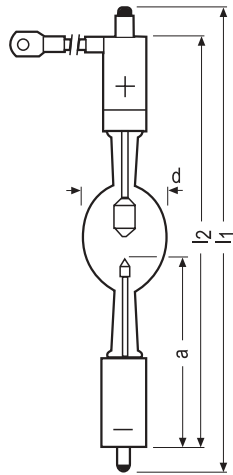


| Ordering Abbreviation                   | XBO 6000 W/HS OFR  | XBO 6000 W/HTP OFR    | XBO 6500 W  | XBO 7000 W/HS OFR |
|---|--------------------|-----------------------|-------------|-------------------|
| Product Number                          | 69339              | 69340                 | 69298       | 69295             |
| Watts (W)                               | 6000               | 6000                  | 6500        | 7000              |
| Volts (V)                               | 37                 | 37                    | 40          | 42                |
| Type of Current                         | DC                 | DC                    | DC          | DC                |
| Current (A)                             | 160                | 160                   | 160         | 160               |
| Current Control Range (A)               | 110 - 165          | 110 - 165             | 80-160      | 110-165           |
| Lumens (lm)                             | 300000             | 280000                | 325000      | 350000            |
| Luminous Intensity (cd)                 | 28000              | 28000                 | 32000       | 35000             |
| Average Luminance (cd/cm <sup>2</sup> ) | 105000             | 105000                | 95000       | 100000            |
| Luminous Area -- w x h (mm)             | 2.0 x 7.5          | 2.0 x 7.5             | 2.3 x 9.0   | 2.0 x 7.5         |
| Length l <sub>1</sub> max (mm)          | 433                | 433                   | 483         | 433               |
| Length l <sub>2</sub> max (mm)          | 393                | 382                   | 434         | 393               |
| Distance a (mm)                         | 170.5              | 165                   | 200         | 170.5             |
| Diameter d (mm)                         | 78                 | 78                    | 60          | 78                |
| Avg Rated Life Vertical (hrs)           | 600                | 600                   | 500         | 500               |
| Avg Rated Life Horizontal (hrs)         | 600                | 600                   |             | 500               |
| Operating Position                      | s15 p15            | s15 p15               | s 10        | s15 p15           |
| Forced Cooling                          | Required           | Required              | Required    | Required          |
| Magnetic Arc Stabilization              |                    | Required              |             | Required          |
| Base Anode                              | SFaX30-9.5         | SFa30-14              | SFa30-20    | SFaX30-9.5        |
| Base Cathode                            | SFa30-7.9          | SFc30-14              | SFa30-22    | SFa30-8.0         |
| Fig No                                  | 1                  | 2                     | 3           | 3                 |
| Symbols & Footnotes                     | 2,8,28,29,30,31,46 | 2,8,29,30,31,46,53,54 | 28,29,30,46 | 2,28,29,30,31,46  |

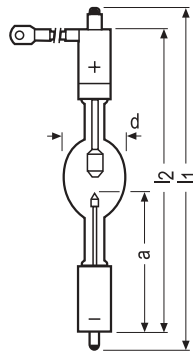
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| Ordering Abbreviation                   | XBO 7000 W/HS OFR | XBO 8000 W/HS OFR | XBO 10000 W/C OFR    | XBO 10000 W/HS OFR |
|---|-------------------|-------------------|----------------------|--------------------|
| Product Number                          | 69301             | 69351             | 69297 <sup>2</sup>   | 69342              |
| Watts (W)                               | 7000              | 8000              | 9600                 | 10000              |
| Volts (V)                               | 43                | 45                | 59                   | 51                 |
| Type of Current                         | DC                | DC                | DC                   | DC                 |
| Current (A)                             | 160               | 175               | 160                  | 195                |
| Current Control Range (A)               | 110-165           | 150-180           | 110-170              | 160-200            |
| Lumens (lm)                             | 350000            | 400000            | 500000               | 500000             |
| Luminous Intensity (cd)                 | 35000             | 40000             | 47500                | 45000              |
| Average Luminance (cd/cm <sup>2</sup> ) | 110000            | 110000            | 80000                | 90000              |
| Luminous Area -- w x h (mm)             | 2.0 x 7.5         | 2.3 x 10.5        | 2.7 x 14.0           | 2.4 x 12.0         |
| Length l <sub>1</sub> max (mm)          | 433               | 433               | 483                  | 433                |
| Length l <sub>2</sub> max (mm)          | 393               | 393               | 434                  | 393                |
| Distance a (mm)                         | 170.5             | 170.5             | 200                  | 170.5              |
| Diameter d (mm)                         | 78                | 90                | 78                   | 90                 |
| Avg Rated Life Vertical (hrs)           | 500               | 500               | 500                  | 500                |
| Avg Rated Life Horizontal (hrs)         | 500               | 500               |                      | 500                |
| Operating Position                      | s 15, p15         | s 15, p15         | s 15                 | s15 p15            |
| Forced Cooling                          | Required          | Required          | Required             | Required           |
| Magnetic Arc Stabilization              | Required          | Required          |                      | Required           |
| Base Anode                              | SFaX 30-9.5       | SFaX 30-9.5       | SK30-20              | SfaX 30-9.5        |
| Base Cathode                            | SFa30-7.9         | SFa 30-7.9        | SFa30-22             | SFa30-7.9          |
| Fig No                                  | 1                 | 1                 | 2                    | 2                  |
| Symbols & Footnotes                     | 2,28,29,30,31,46  | 2,28,29,30,31,46  | 28,29,30,31,35,46,55 | 2,28,29,30,31,46   |

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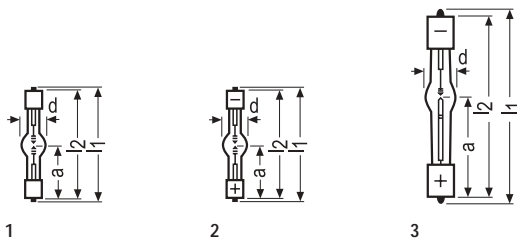


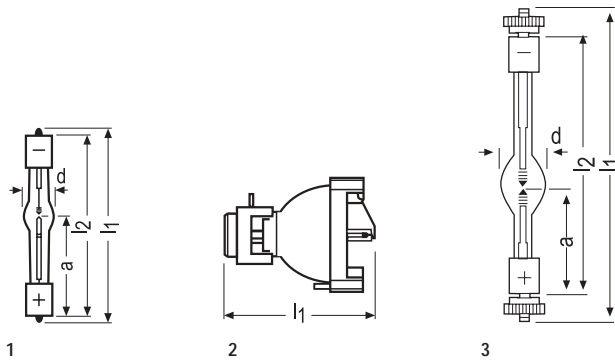
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| Ordering Abbreviation                   | HBO 50 W AC L1   | HBO 50 W AC L2   | HBO 50 W/3       | HBO 100 W/2      |
|---|------------------|------------------|------------------|------------------|
| Product Number                          | 69213            | 69214            | 69215            | 69217            |
| Watts (W)                               | 50               | 50               | 50               | 100              |
| Volts (V)                               | 37               | 42               | 23               | 20               |
| Type of Current                         | AC               | AC               | DC               | DC               |
| Current (A)                             | 1.45             | 1.3              | 2.3              | 5.0              |
| Lumens (lm)                             | 2000             | 2000             | 1300             | 2200             |
| Luminous Intensity (cd)                 | 230              | 230              | 150              | 260              |
| Average Luminance (cd/cm <sup>2</sup> ) | 30000            | 30000            | 90000            | 170000           |
| Luminous Area – w x h (mm)              | 0.3 x 1.0        | 0.3 x 1.0        | 0.2 x 0.35       | 0.25 x 0.25      |
| Luminous Efficacy (lm/W)                | 40               | 40               | 26               | 22               |
| Length l <sub>1</sub> max (mm)          | 53               | 53               | 53               | 90               |
| Length l <sub>2</sub> max (mm)          | 47               | 47               | 47               | 82               |
| Distance a (mm)                         | 22               | 22               | 22               | 43               |
| Diameter d (mm)                         | 8.5              | 8.5              | 9                | 10               |
| Avg Rated Life (hrs)                    | 100              | 100              | 200              | 200              |
| Operating Position                      | s 45, anode down | s 45, anode down | s 45, anode down | s 90, anode down |
| Cooling                                 | Convection       | Convection       | Convection       | Convection       |
| Base Anode                              | SFa6-2           | SFa6-2           | SFa6-2           | SFa7.5-2         |
| Base Cathode                            | SFa6-2           | SFa6-2           | SFa8-2           | SFa9-2           |
| Fig No                                  | 1                | 1                | 2                | 3                |
| Symbols & Footnotes                     |                  |                  |                  |                  |

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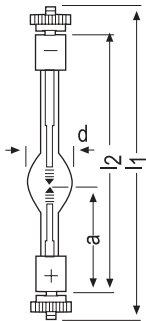
| Ordering Abbreviation                   | HBO 103 W/2      | HBO R 103 W/45 | HBO 200 W/2 L1   | HBO 200 W/2 L2   |
|---|------------------|----------------|------------------|------------------|
| Product Number                          | 69182            | 69311          | 69198            | 69222            |
| Watts (W)                               | 100              | 100            | 200              | 200              |
| Volts (V)                               | 23               | 23             | 61               | 53               |
| Type of Current                         | DC               | DC             | DC or AC         | DC or AC         |
| Current (A)                             | 4.44             | 4.3            |                  |                  |
| Lumens (lm)                             | 2550             |                | 9500             | 9500             |
| Luminous Intensity (cd)                 | 270 MIN          |                | 1000             | 1000             |
| Average Luminance (cd/cm <sup>2</sup> ) | 150000           |                | 40000            | 40000            |
| Luminous Area – w x h (mm)              | 0.25 x 0.25      |                | 0.6 x 2.2        | 0.6 x 2.2        |
| Luminous Efficacy (lm/W)                | 30               |                | 47.5             | 47.5             |
| Length l <sub>1</sub> max (mm)          | 90               | 81.50          | 128              | 128              |
| Length l <sub>2</sub> max (mm)          | 82               |                | 102              | 102              |
| Distance a (mm)                         | 43               |                | 40               | 40               |
| Diameter d (mm)                         | 10               |                | 17               | 17               |
| Avg Rated Life (hrs)                    | 300              | 300            | 400              | 400              |
| Operating Position                      | s 90, anode down | p 15           | s 45, anode down | s 45, anode down |
| Cooling                                 | Convection       | Convection     | Convection       | Convection       |
| Base Anode                              | SFa7.5-2         | Pin            | SFc10-4          | SFc10-4          |
| Base Cathode                            | SFa9-2           | Pin            | SFc10-4          | SFc10-4          |
| Fig No                                  | 1                | 2              | 3                | 3                |
| Symbols & Footnotes                     | 56               | 34,57          | 58,59,60         | 58,59,60         |

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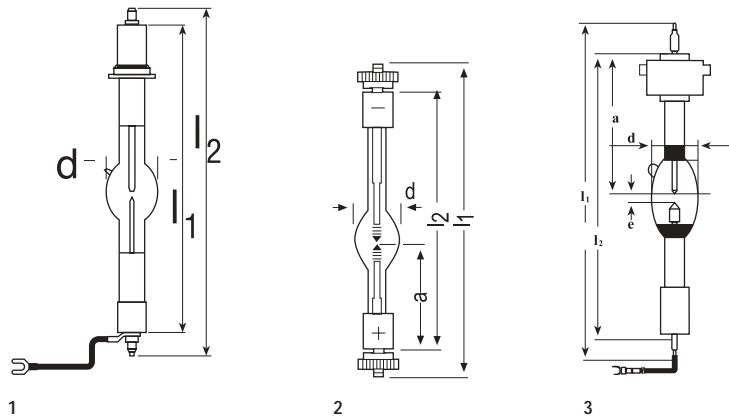
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| Ordering Abbreviation                   | HBO 200 W/2 TM L1 | HBO 200 W/2 TM L2 | HBO 200 W/4      | HBO 200 W/DC     |
|---|-------------------|-------------------|------------------|------------------|
| Product Number                          | 69221             | 69223             | 69224            | 69225            |
| Watts (W)                               | 200               | 200               | 200              | 200              |
| Volts (V)                               | 47                | 47                | 61               | 57               |
| Type of Current                         | DC or AC          | DC or AC          | AC               | DC               |
| Current (A)                             |                   |                   | 3.6              | 3.5              |
| Lumens (lm)                             | 9500              | 9500              | 9500             | 10000            |
| Luminous Intensity (cd)                 | 1000              | 1000              | 1000             | 1100             |
| Average Luminance (cd/cm <sup>2</sup> ) | 40000             | 40000             | 40000            | 40000            |
| Luminous Area – w x h (mm)              | 0.6 x 2.2         | 0.6 x 2.2         | 0.6 x 2.2        | 0.75 x 2.3       |
| Luminous Efficacy (lm/W)                | 47.5              | 47.5              | 47.5             | 50               |
| Length l <sub>1</sub> max (mm)          | 128               | 128               | 128              | 128              |
| Length l <sub>2</sub> max (mm)          | 102               | 102               | 102              | 102              |
| Distance a (mm)                         | 40                | 40                | 40               | 40               |
| Diameter d (mm)                         | 17                | 17                | 17               | 17               |
| Avg Rated Life (hrs)                    | 400               | 200               | 200              | 1000             |
| Operating Position                      | s 45, anode down  | s 45, anode down  | s 45, anode down | s 15, anode down |
| Cooling                                 | Convection        | Convection        | Convection       | Convection       |
| Base Anode                              | 8-32 UNC-3A       | 8-32 UNC-3A       | SFc10-4          | SFc10-4          |
| Base Cathode                            | 8-32 UNC-3A       | 8-32 UNC-3A       | SFc10-4          | SFc10-4          |
| Fig No                                  | 1                 | 1                 | 1                | 1                |
| Symbols & Footnotes                     | 61                | 61                | 62               |                  |

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| Ordering Abbreviation                   | HBO 201 W/HS-D2    | HBO 202 W/4      | HBO 250 W/HS         |
|---|--------------------|------------------|----------------------|
| Product Number                          | 69168              | 69316            | 69364*               |
| Watts (W)                               | 200                | 200              | 250                  |
| Volts (V)                               | 25                 | 61               | 40                   |
| Type of Current                         | DC                 | AC               | DC                   |
| Current (A)                             | 8                  | 3.6              | 6.25                 |
| Lumens (lm)                             |                    |                  |                      |
| Luminous Intensity (cd)                 |                    | 1000             |                      |
| Average Luminance (cd/cm <sup>2</sup> ) |                    | 40000            |                      |
| Luminous Area – w x h (mm)              |                    | 0.6 x 2.2        |                      |
| Luminous Efficacy (lm/W)                |                    | 47.5             |                      |
| Length l <sub>1</sub> max (mm)          | 150                | 128              | 143                  |
| Length l <sub>2</sub> max (mm)          | 127                | 102              | 125                  |
| Distance a (mm)                         |                    | 40               | 62                   |
| Diameter d (mm)                         | 20                 | 17               | 20                   |
| Avg Rated Life (hrs)                    | 1000               | 200              | 1000                 |
| Operating Position                      | Vertical, anode up | s 45, anode down | Vertical, anode down |
| Cooling                                 | Convection         | Convection       | Convection           |
| Base Anode                              | SFcX32-22          | SFc10-4          | SFa 13-5/20          |
| Base Cathode                            | SFcX12-4/15        | SFc10-4          | Special              |
| Fig No                                  | 1                  | 2                | 3                    |
| Symbols & Footnotes                     | 28,63              | 64               | 63                   |

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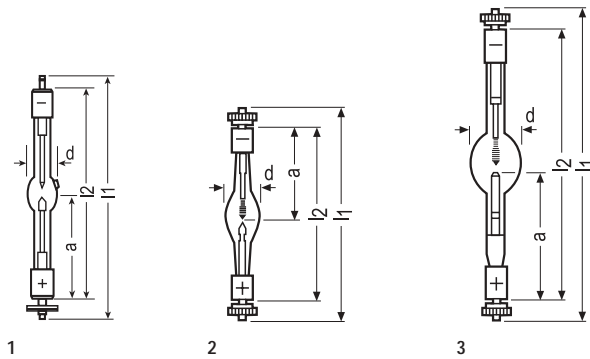


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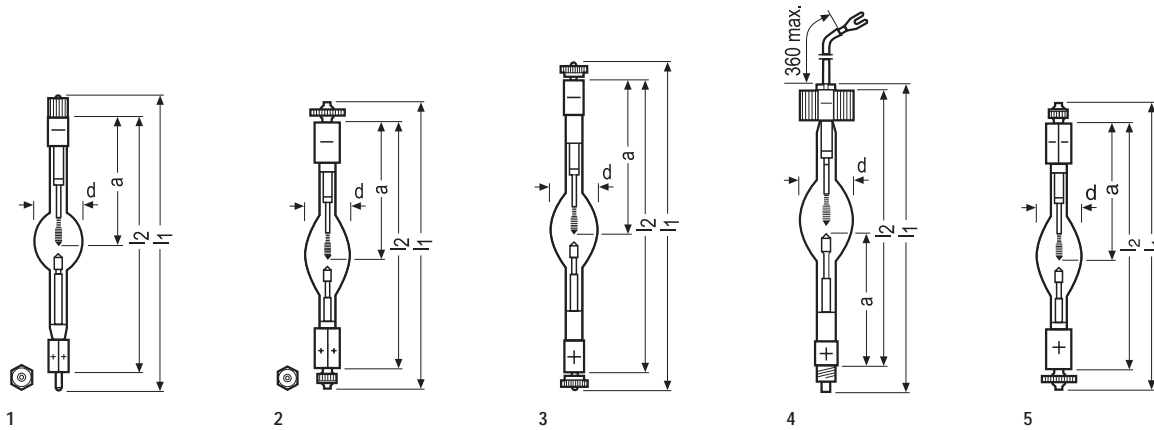
| Ordering Abbreviation                 | HBO 250 W/BY         | HBO 350 W            | HBO 350 W/S          | HBO 450 W/GS         | HBO 500 W/A          |
|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Product Number                        | 69246                | 69226                | 69228                | 69343                | 69205                |
| Watts (W)                             | 250                  | 350                  | 350                  | 450                  | 500                  |
| Volts (V)                             | 40                   | 68                   | 68                   | 50                   | 60                   |
| Type of Current                       | DC                   | DC                   | DC                   | DC                   | DC                   |
| Current (A)                           | 6.5                  | 5.3                  | 5.15                 | 9                    | 8.3                  |
| Radiant Intensity 350..450 nm (mW/sr) |                      | 4600                 | 4700                 |                      | 6200                 |
| Length l <sub>1</sub> max (mm)        | 152                  | 128                  | 127                  | 150                  | 190                  |
| Length l <sub>2</sub> max (mm)        | 125                  | 102                  | 103                  | 105                  | 161.5                |
| Distance a (mm)                       | 62                   | 45                   | 52.5                 | 53                   | 73                   |
| Diameter d (mm)                       | 20                   | 20                   | 20                   | 22                   | 29                   |
| Electrode Gap -- cold (mm)            | 2                    | 2.9                  | 3                    | 2.2                  | 4.5                  |
| Avg Rated Life (hrs)                  | 1000                 | 600                  | 600                  | 600                  | 800                  |
| Operating Position                    | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down |
| Cooling                               | Forced Base          | Convection           | Convection           | Convection           | Convection           |
| Base Anode                            | SFc13-5/20           | SFcY 10-4            | SFcY10-4             | SFc 13-5/15          | SFcY13-5             |
| Base Cathode                          | SFc13-5/20           | SFcY 10-4            | SFcY10-4             | SFc 13-5/15          | SFcY13-5             |
| Fig No                                | 1                    | 2                    | 2                    | 1                    | 3                    |
| Symbols & Footnotes                   |                      | 67,68,69,70          | 67,70                | 71                   | 70,71,72             |



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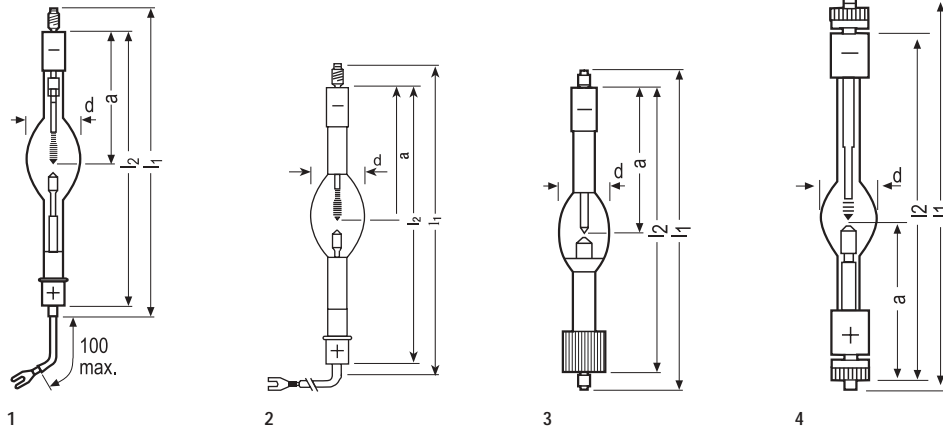
| Ordering Abbreviation                 | HBO 500 W/B          | HBO 1000 W/CEL       | HBO 1000 W/G         | HBO 1000 W/NEL       | HBO 1002 W/CEL       |
|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Product Number                        | 69206                | 69175                | 69208 <sup>2</sup>   | 69176                | 69177                |
| Watts (W)                             | 500                  | 750                  | 750                  | 750                  | 750                  |
| Volts (V)                             | 48                   | 47                   | 47                   | 47                   | 47                   |
| Type of Current                       | DC                   | DC                   | DC                   | DC                   | DC                   |
| Current (A)                           | 10.3                 | 16                   | 16                   | 16                   | 16                   |
| Radiant Intensity 350..450 nm (mW/sr) | 5800                 | 8300                 | 8300                 | 8300                 | 8300                 |
| Length l <sub>1</sub> max (mm)        | 180                  | 175                  | 197                  | 190                  | 175                  |
| Length l <sub>2</sub> max (mm)        | 151.5                | 157                  | 169.5                | 168                  | 157                  |
| Distance a (mm)                       | 78.5                 | 78.5                 | 85                   | 84.5                 | 78.5                 |
| Diameter d (mm)                       | 29                   | 28                   | 28                   | 28                   | 28                   |
| Electrode Gap -- cold (mm)            | 3                    | 3                    | 3                    | 3                    | 3                    |
| Avg Rated Life (hrs)                  | 800                  | 2500                 | 600                  | 2500                 | 2500                 |
| Operating Position                    | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down |
| Cooling                               | Convection           | Convection           | Forced Base          | Convection           | Convection           |
| Base Anode                            | SfCX13-5/20          | SxFc15-6/20          | SfCX14-6/25          | SFa15-5/16           | SFfC15-6/20          |
| Base Cathode                          | SfCY 13-15/20        | SFfC15-6/20          | SfCX15-4/20          | SFaX14-5/21          | SXFfC15-6/20         |
| Fig No                                | 1                    | 2                    | 3                    | 4                    | 5                    |
| Symbols & Footnotes                   | 70,71,73,74          | 75,76,77             | 67,76                | 71,76,78,79,80       | 76                   |

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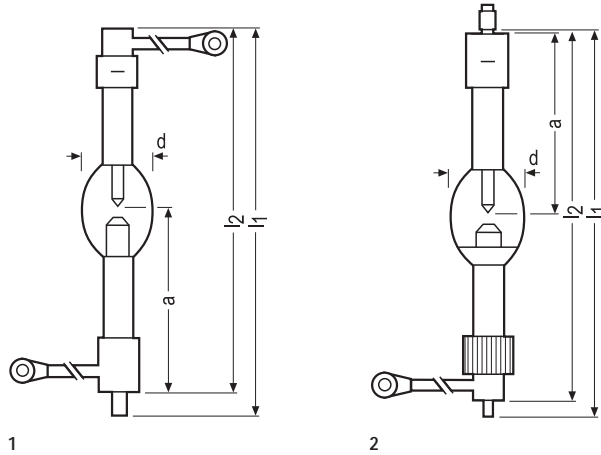
| Ordering Abbreviation                 | HBO 1002 W/NEL       | HBO 1002 W/NIL       | HBO 1003 W/PI        | HBO 1003 W/PIL       | HBO 1000 W/D         |
|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Product Number                        | 69273                | 69347                | 69195                | 69180                | 69200                |
| Watts (W)                             | 750                  | 750                  | 750                  | 750                  | 1000                 |
| Volts (V)                             | 47                   | 25                   | 26                   | 26                   | 38                   |
| Type of Current                       | DC                   | DC                   | DC                   | DC                   | DC                   |
| Current (A)                           | 16                   | 27.1                 | 27.1                 | 25.8                 | 26.5                 |
| Radiant Intensity 350..450 nm (mW/sr) | 8300                 |                      |                      |                      | 10800                |
| Length l <sub>1</sub> max (mm)        | 190                  | 187                  | 197                  | 195                  | 240                  |
| Length l <sub>2</sub> max (mm)        | 168                  | 168                  | 169.5                | 169.5                | 208                  |
| Distance a (mm)                       | 78.5                 | 78.5                 | 85                   | 85                   | 89.5                 |
| Diameter d (mm)                       | 28                   | 29                   | 29                   | 29                   | 40                   |
| Electrode Gap -- cold (mm)            | 3                    | 3                    | 3                    | 3                    | 3                    |
| Avg Rated Life (hrs)                  | 2500                 | 1500                 | 850                  | 1500                 | 1000                 |
| Operating Position                    | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down |
| Cooling                               | Convection           | Forced Base          | Forced Base          | Forced Base          | Forced Base          |
| Base Anode                            | SFaX14-5/21          | SFaX14-5/21          | SFcX14-6/25          | SFcX14-6/25          | SFc15-6/25           |
| Base Cathode                          | SFc15-6/25           | SFc15-6/25           | SFc15-6/25           | SFc15-6/25           | SFc15-6/25           |
| Fig No                                | 1                    | 2                    | 3                    | 3                    | 4                    |
| Symbols & Footnotes                   | 77,81                | 77,82                | 76,83,84             | 76,83,85             |                      |

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| Ordering Abbreviation                 | HBO 1500 W/CI        | HBO 1500 W/CIEL      | HBO 1500 W/CIL       | HBO 1500 W/PI        | HBO 1500 W/PIL       |
|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Product Number                        | 69185 <sup>⚡</sup>   | 69171                | 69179 <sup>⚡</sup>   | 69319                | 69181                |
| Watts (W)                             | 1500                 | 1500                 | 1500                 | 1500                 | 1500                 |
| Volts (V)                             | 23                   | 23                   | 23                   | 23                   | 23                   |
| Type of Current                       | DC                   | DC                   | DC                   | DC                   | DC                   |
| Current (A)                           | 65.2                 | 65.2                 | 65.2                 | 65.2                 | 65.2                 |
| Radiant Intensity 350..450 nm (mW/sr) |                      |                      |                      |                      |                      |
| Length l <sub>1</sub> max (mm)        | 262                  | 262                  | 262                  | 267                  | 273                  |
| Length l <sub>2</sub> max (mm)        | 242                  | 242                  | 242                  | 240                  | 242                  |
| Distance a (mm)                       | 122                  | 122                  | 122                  | 118                  | 118                  |
| Diameter d (mm)                       | 52                   | 52                   | 52                   | 47                   | 46                   |
| Electrode Gap -- cold (mm)            | 4                    | 4                    | 4                    | 4                    | 4                    |
| Avg Rated Life (hrs)                  | 850                  | 2250                 | 1500                 | 850                  | 1500                 |
| Operating Position                    | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down | Vertical, anode down |
| Cooling                               | Forced Base          | Forced Base          | Forced Base          | Forced Base          | Forced Base          |
| Base Anode                            | SFa27-10/35          | SFa27-20/22          | SFa27-10/35          | SFc30-6/25           | SFc30-6/25           |
| Base Cathode                          | SFa27-20/23          | SFa27-20/23          | SFa27-20/23          | SFc27-10/35          | SFc27-10/35          |
| Fig No                                | 1                    | 1                    | 1                    | 2                    | 2                    |
| Symbols & Footnotes                   | 86,87,88             | 87,88,89             | 86,88                | 66,90                | 66,91,92             |

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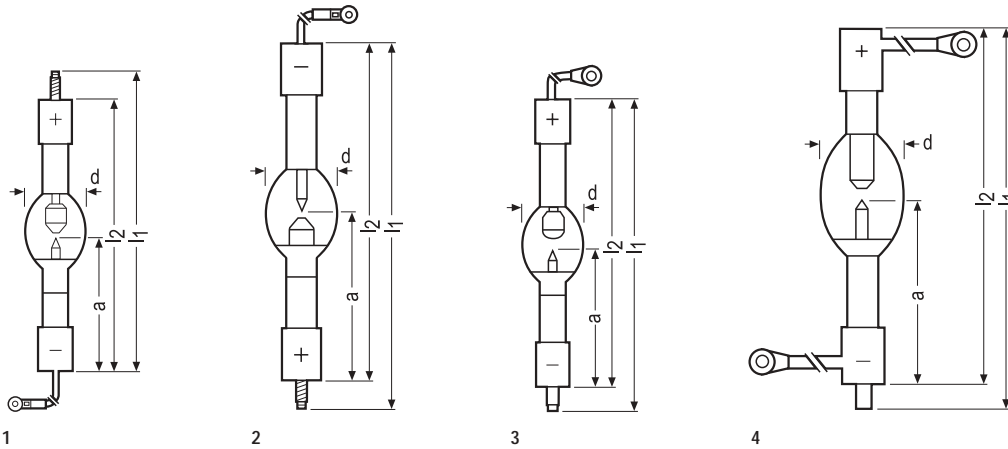
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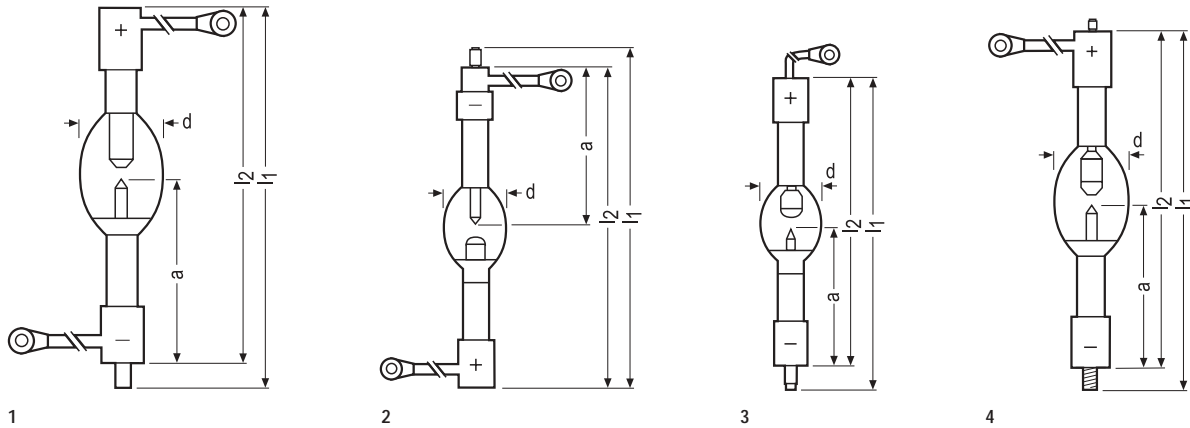


| Ordering Abbreviation                 | HBO 2000 W/NIL     | HBO 2001 W/NIEL      | HBO 2001 W/NIL       | HBO 2002 W/NIL     | HBO 2001 W/CIEL                          |
|---------------------------------------|--------------------|----------------------|----------------------|--------------------|--|
| Product Number                        | 69303              | 69306                | 69292                | 69287              | 69166                                    |
| Watts (W)                             | 1750               | 1750                 | 1750                 | 1750               | 2000                                     |
| Volts (V)                             | 26                 | 26                   | 26                   | 24                 | 26                                       |
| Type of Current                       | DC                 | DC                   | DC                   | DC                 | DC                                       |
| Current (A)                           | 67                 | 67                   | 67                   | 67                 | 77                                       |
| Radiant Intensity 350..450 nm (mW/sr) |                    |                      |                      |                    |  |
| Length l <sub>1</sub> max (mm)        | 241                | 251                  | 251                  | 254                | 329                                      |
| Length l <sub>2</sub> max (mm)        | 221                | 231                  | 231                  | 234                | 309                                      |
| Distance a (mm)                       | 112.25             | 112.5                | 112                  | 107.5              | 148.75                                   |
| Diameter d (mm)                       | 52                 | 52                   | 50                   | 52                 | 62                                       |
| Electrode Gap -- cold (mm)            | 4.5                | 4.5                  | 4.5                  | 4.5                | 4  |
| Avg Rated Life (hrs)                  | 1500               | 2250                 | 1500                 | 1500               | 2250                                     |
| Operating Position                    | Vertical, anode up | Vertical, anode down | Vertical, anode down | Vertical, anode up | Vertical, anode up                       |
| Cooling                               | Forced Base        | Forced Base          | Forced Base          | Forced Base        | Forced Base                              |
| Base Anode                            | SFc27-12/35        | SFc27-10/35          | SFc27-10/35          | SFc27-7/35         | SF33.5/50 with cable connection (M8)     |
| Base Cathode                          | SFc27-7/35         | SFc27-7/35           | SFaX27-7/35          | SFc27-10x1.25/35   | SFa33.5-10/50 with cable connection (M6) |
| Fig No                                | 1                  | 2                    | 2                    | 3                  | 4  |
| Symbols & Footnotes                   | 88,92              | 88,92                | 88,92                | 86,92              | 89,93,94                                 |

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| Ordering Abbreviation                 | HBO 2001 W/CIL     | HBO 2002 W/MA        | HBO 2011 W/NIL     | HBO 2500 W/PIL     |
|---------------------------------------|--------------------|----------------------|--------------------|--------------------|
| Product Number                        | 69189              | 69199                | 69288              | 69172              |
| Watts (W)                             | 2000               | 2000                 | 2000               | 2500               |
| Volts (V)                             | 26                 | 37                   | 24                 | 28                 |
| Type of Current                       | DC                 | DC                   | DC                 | DC                 |
| Current (A)                           | 77                 | 54                   | 80                 | 90                 |
| Radiant Intensity 350..450 nm (mW/sr) |                    |                      |                    |                    |
| Length l <sub>1</sub> max (mm)        | 329                | 292                  | 256                | 350                |
| Length l <sub>2</sub> max (mm)        | 307                | 272                  | 236                | 315                |
| Distance a (mm)                       | 149                | 138.5                | 107.75             | 149                |
| Diameter d (mm)                       | 62                 | 62                   | 52                 | 62                 |
| Electrode Gap -- cold (mm)            | 4.5                | 3                    | 4.5                | 6.7                |
| Avg Rated Life (hrs)                  | 1500               | 1000                 | 1500               | 1500               |
| Operating Position                    | Vertical, anode up | Vertical, anode down | Vertical, anode up | Vertical, anode up |
| Cooling                               | Forced Base        | Forced Base          | Forced Base        | Forced Base        |
| Base Anode                            | SF33.5/50          | SF27/35              | SF27-7/35          | SF30-6/50          |
| Base Cathode                          | SFa33.5-10/50      | SFa27-10/35          | SF27-12x1.5/35     | SF30-6.3/50        |
| Fig No                                | 1                  | 2                    | 3                  | 4                  |
| Symbols & Footnotes                   | 86,92,93,95        | 28,86,88,92,96       | 86,92              | 28,89,92,97        |

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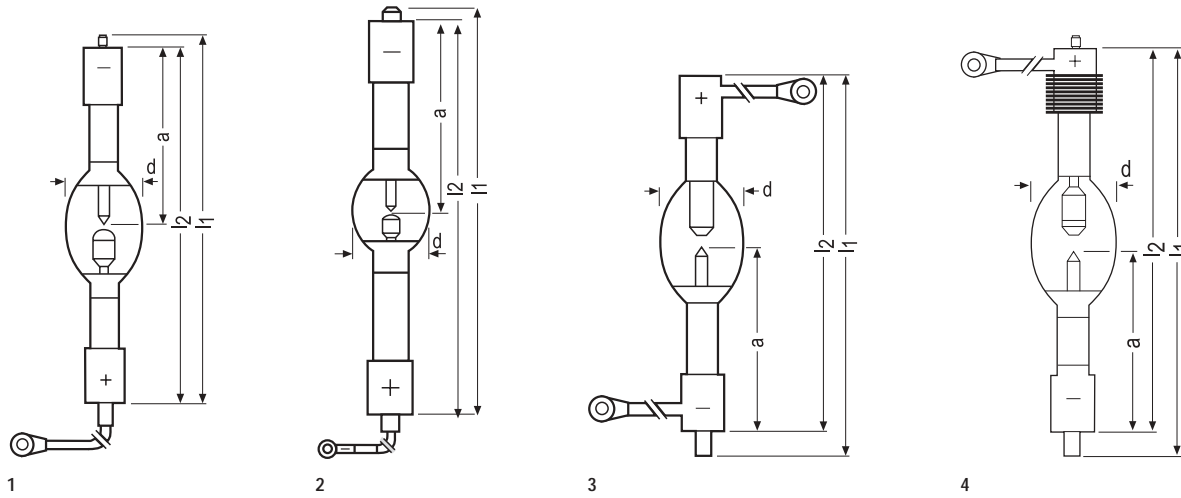
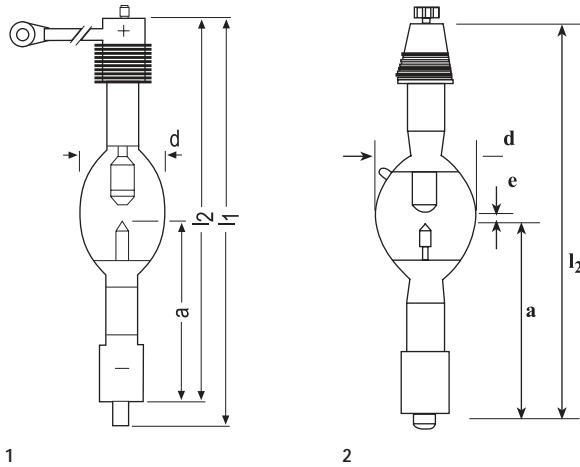


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| Ordering Abbreviation                 | HBO 2501 W/NIL       | HBO 2510 W/NIL     | HBO 2700 W/CIL     | HBO 3500 W/PI      |
|---------------------------------------|----------------------|--------------------|--------------------|--------------------|
| Product Number                        | 69289                | 69299              | 69344              | 69174              |
| Watts (W)                             | 2500                 | 2500               | 2700               | 3400               |
| Volts (V)                             | 23                   | 23                 | 24                 | 23                 |
| Type of Current                       | DC                   | DC                 | DC                 | DC                 |
| Current (A)                           | 110                  | 109                | 110                | 148                |
| Radiant Intensity 350..450 nm (mW/sr) |                      |                    |                    |                    |
| Length l <sub>1</sub> max (mm)        | 367                  | 367                | 334                | 340                |
| Length l <sub>2</sub> max (mm)        | 327                  | 327                | 309                | 315                |
| Distance a (mm)                       | 157.75               | 157.5              | 148.75             | 154                |
| Diameter d (mm)                       | 70                   | 70                 | 62                 | 77                 |
| Electrode Gap -- cold (mm)            | 4.5                  | 4.5                |                    | 4.5                |
| Avg Rated Life (hrs)                  | 1500                 | 1500               | 1500               | 850                |
| Operating Position                    | Vertical, anode down | Vertical, anode up | Vertical, anode up | Vertical, anode up |
| Cooling                               | Forced Base          | Forced Base        | Forced Base        | Forced Base        |
| Base Anode                            | SFc33.5-8/50         | SFc33.5-8/50       | SFa33.5/50         | SFaX40-6/50        |
| Base Cathode                          | SFc33.5-14/5         | SFc33.5-14/50      | SFa33.5-14.59      | SFc32.5-6.7/50     |
| Fig No                                | 1                    | 2                  | 3                  | 4                  |
| Symbols & Footnotes                   | 28,86                | 28,92,98           | 71,86,99           | 28,89,92,100       |

# HBO® MERCURY SHORT ARC FOR MICROLITHOGRAPHY



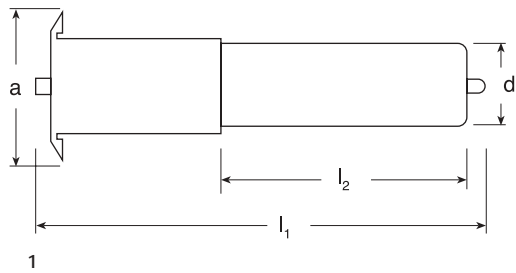
Click Below To Order

Interlight Specialty Bulbs  
 1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)

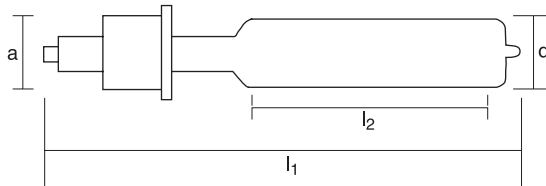
| Ordering Abbreviation                 | HBO 3500 W/PIL     | HBO 3501 W/PI      | HBO 3501 W/PIL                          | HBO 4500 W/CIL     | HBO 5500 W/PI      |
|---------------------------------------|--------------------|--------------------|---|--------------------|--------------------|
| Product Number                        | 69169              | 69127              | 69165                                   | 69162*             | 69164              |
| Watts (W)                             | 3400               | 3400               | 3400                                    | 4500               | 5000               |
| Volts (V)                             | 23                 | 23                 | 23                                      | 30                 | 25                 |
| Type of Current                       | DC                 | DC                 | DC                                      | DC                 | DC                 |
| Current (A)                           | 148                | 148                | 148                                     | 148                | 200                |
| Radiant Intensity 350..450 nm (mW/sr) |                    |                    |   |                    |                    |
| Length l <sub>1</sub> max (mm)        | 360                | 360                | 360                                     | 360                |                    |
| Length l <sub>2</sub> max (mm)        | 315                | 315                | 315                                     | 315                | 355                |
| Distance a (mm)                       | 154                | 154                | 154                                     | 154                | 154                |
| Diameter d (mm)                       | 77                 | 77                 | 77                                      | 77                 | 85                 |
| Electrode Gap -- cold (mm)            | 4.5                | 4.5                | 4.5                                     |                    | 5.5                |
| Avg Rated Life (hrs)                  | 1500               | 850                | 1500                                    | 1500               | 850                |
| Operating Position                    | Vertical, anode up | Vertical, anode up | Vertical, anode up                      | Vertical, anode up | Vertical, anode up |
| Cooling                               | Forced Base        | Forced Base        | Forced Base                             | Forced Base        | Forced Base        |
| Base Anode                            | SFaX40-6/50        | SFaX40-6/50        | SFc32.5-6.7/50                          | SFAX40-6/50        | SFcX 42.5-6/50     |
| Base Cathode                          | SFc32.5-6.7/50     | SFc32.5-6.7/50     | SFaX40-6/50 with cable connection (M10) | SFc32.5-6.7/50     | SFa 37.5-9/50      |
| Fig No                                | 1                  | 1                  | 1                                       | 1                  | 2                  |
| Symbols & Footnotes                   | 28,65,89,92        | 28,89,92           | 65,85,91,97,99,101,102,103              | 65,66              | 9,30,83,89,104     |

PHOTO OPTIC DISCHARGE

## EXCIMER AND SPECTRAL LAMPS



1



2



3

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### EXCIMER - XERADEX

| Ordering Abbreviation          | XERADEX 20      | XERADEX 20/HV   | XERADEX 20/SY45/45 |
|--------------------------------|-----------------|-----------------|--------------------|
| Product Number                 | 69338           | 69352           | 69349              |
| Watts (W)                      | 20              | 20              | 20                 |
| Length l <sub>1</sub> max (mm) | 245             | 245             | 300                |
| Length l <sub>2</sub> max (mm) | 120             | 120             | 125                |
| Distance a (mm)                | 75              | 75              | 45                 |
| Diameter d (mm)                | 40              | 40              | 40                 |
| Avg Rated Life (hrs)           | 1500            | 1500            | 1500               |
| Operating Position             | Any             | Any             | Any                |
| Fig No                         | 1               | 1               | 2                  |
| Symbols & Footnotes            | 105,106,107,108 | 105,106,107,109 | 105,106,107,110    |

### SPECTRAL

| Ordering Abbreviation | Na 10 FL            |  |  |
|-----------------------|---------------------|--|--|
| Product Number        | 69284               |  |  |
| Elements              | Sodium              |  |  |
| Watts (W)             | 9                   |  |  |
| Volts (V)             | 16                  |  |  |
| Current (A)           | 0.57                |  |  |
| Type of Current       | AC                  |  |  |
| Operating Position    | Vertical, base down |  |  |
| Base                  | Pico 9              |  |  |
| Fig No                | 3                   |  |  |
| Symbols & Footnotes   | 111,112             |  |  |



# LAMP BASES

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BA15d  
IEC 7004-11  
DIN 49721  
DL  
Bayonet



BA15s  
IEC 7004-11A  
DIN 49720  
SC  
Bayonet



BA20d  
IEC 7004-12  
DIN 49730



E10  
IEC 7004-22  
DIN 49610  
miniature  
Edison



E14  
IEC 7004-23  
DIN 49615  
small  
Edison



E27/E26  
IEC 7004-21  
DIN 49620  
E26-NA  
E27-EURO



E40/E39  
IEC 7004-21  
DIN 49625  
E39-NA  
E40-EURO



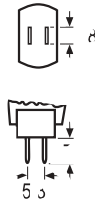
FaX1.5-3x1



G4  
IEC 7004-72  
DIN 49757  
2-pin



GX5.3  
IEC 7004-61  
DIN 49640  
2-pin



G5.3-4.8  
2-pin



GY5.3  
2-pin



G6.35-15  
G6.35-20  
G6.35-25  
IEC 7004-59  
2-pin



GX6.35-25  
IEC 7004-59  
2-pin



GY6.35-15  
IEC 7004-59  
2-pin



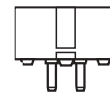
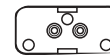
GZ6.35  
IEC 7004-59 A  
DIN 49754  
2-pin



GZX9.5  
GZZ9.5  
IEC 7004-70 B  
DIN 49756  
2-pin  
pre-focus



G9.5  
IEC 7004-70  
medium  
2-pin



GX9.5  
DIN 49638  
IEC 7004-70 A  
2-pin  
pre-focus



GY9.5  
GZ9.5  
DIN 49756  
IEC 7004-70 B  
2-pin  
pre-focus

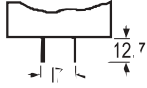
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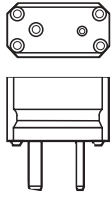
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**LAMP BASES**



GX16d  
2-pin



GY16  
DIN 49758  
IEC 7004-45  
2-pin



GY17q  
DIN 49758  
IEC 7004-74  
4-pin



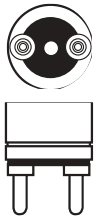
GY17t  
DIN 49665  
IEC 7004-45  
4-pin



G22  
IEC 7004-75  
medium  
Bipost



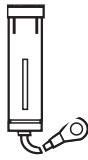
GY22  
2-pin



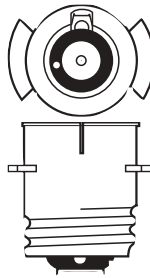
G38  
IEC 7004-76  
MOGUL  
Bipost



GX38q



K24s  
Length of cable  
250 mm  
Hole of cable lug  
ø 8.4 mm  
DIN 49748



P40s  
DIN 49728  
IEC 7004-43  
medium  
pre-focus



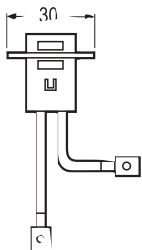
Pico9  
DIN 41539



PG22-6.35  
DIN 49751  
IEC 7004-48



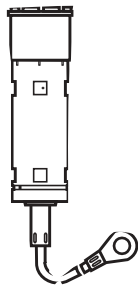
P28s  
DIN 49728  
IEC 7004-42  
MOGUL  
pre-focus



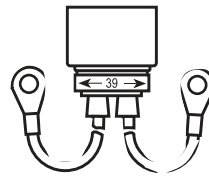
PK30d



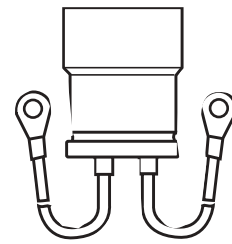
R7s  
RX7s  
DIN 49750  
IEC 7004-92



K30 s  
Length of cable  
275 mm  
Hole of cable lug  
dia 8.4 mm  
DIN 49748



K39 d  
with flexible Sialf cable  
Length of cable 300 mm.  
Hole of cable lug dia. 8.4 mm



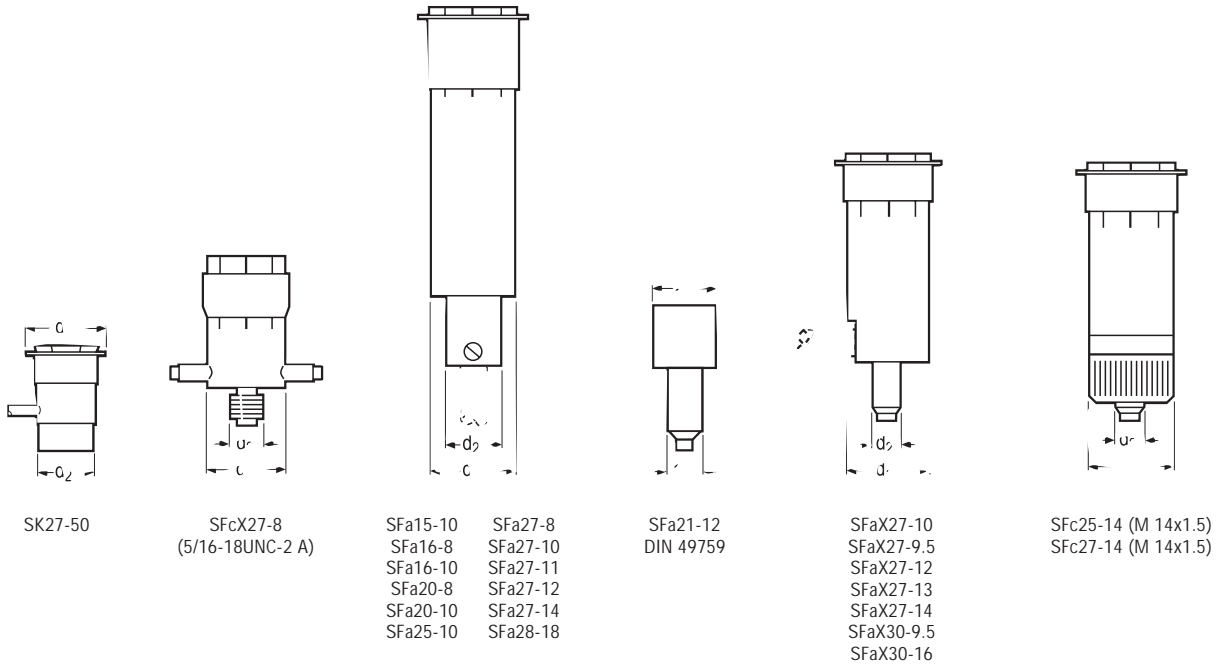
K59 d  
with flexible Sialf cable  
Length of cable 350 mm.  
Hole of cable lug dia. 8.4 mm  
DIN 49732

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LAMP BASES



SK27-50

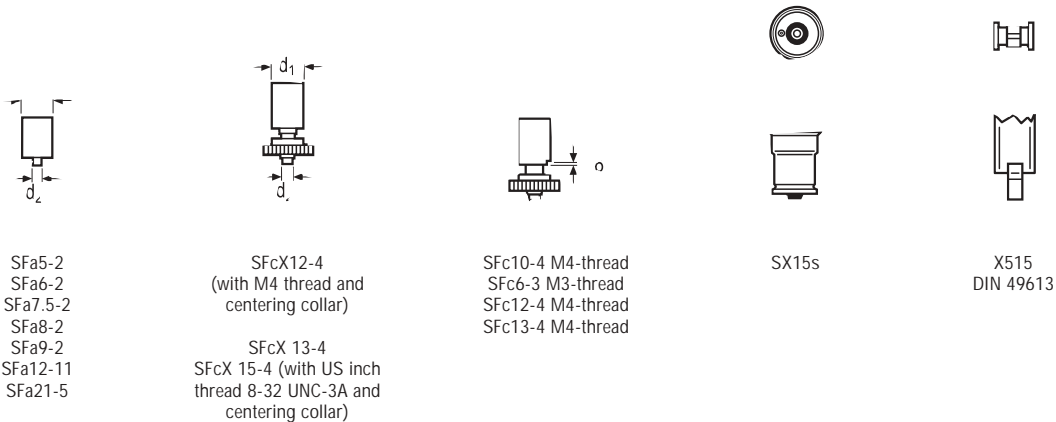
SFCX27-8  
(5/16-18UNC-2 A)

SFA15-10 SFA27-8  
 SFA16-8 SFA27-10  
 SFA16-10 SFA27-11  
 SFA20-8 SFA27-12  
 SFA20-10 SFA27-14  
 SFA25-10 SFA28-18

SFA21-12  
 DIN 49759

SFA27-10  
 SFA27-9.5  
 SFA27-12  
 SFA27-13  
 SFA27-14  
 SFA30-9.5  
 SFA30-16

SFC25-14 (M 14x1.5)  
 SFC27-14 (M 14x1.5)



SFA5-2  
 SFA6-2  
 SFA7.5-2  
 SFA8-2  
 SFA9-2  
 SFA12-11  
 SFA21-5

SFCX12-4  
(with M4 thread and  
 centering collar)  
 SFCX 13-4  
 SFCX 15-4 (with US inch  
 thread 8-32 UNC-3A and  
 centering collar)

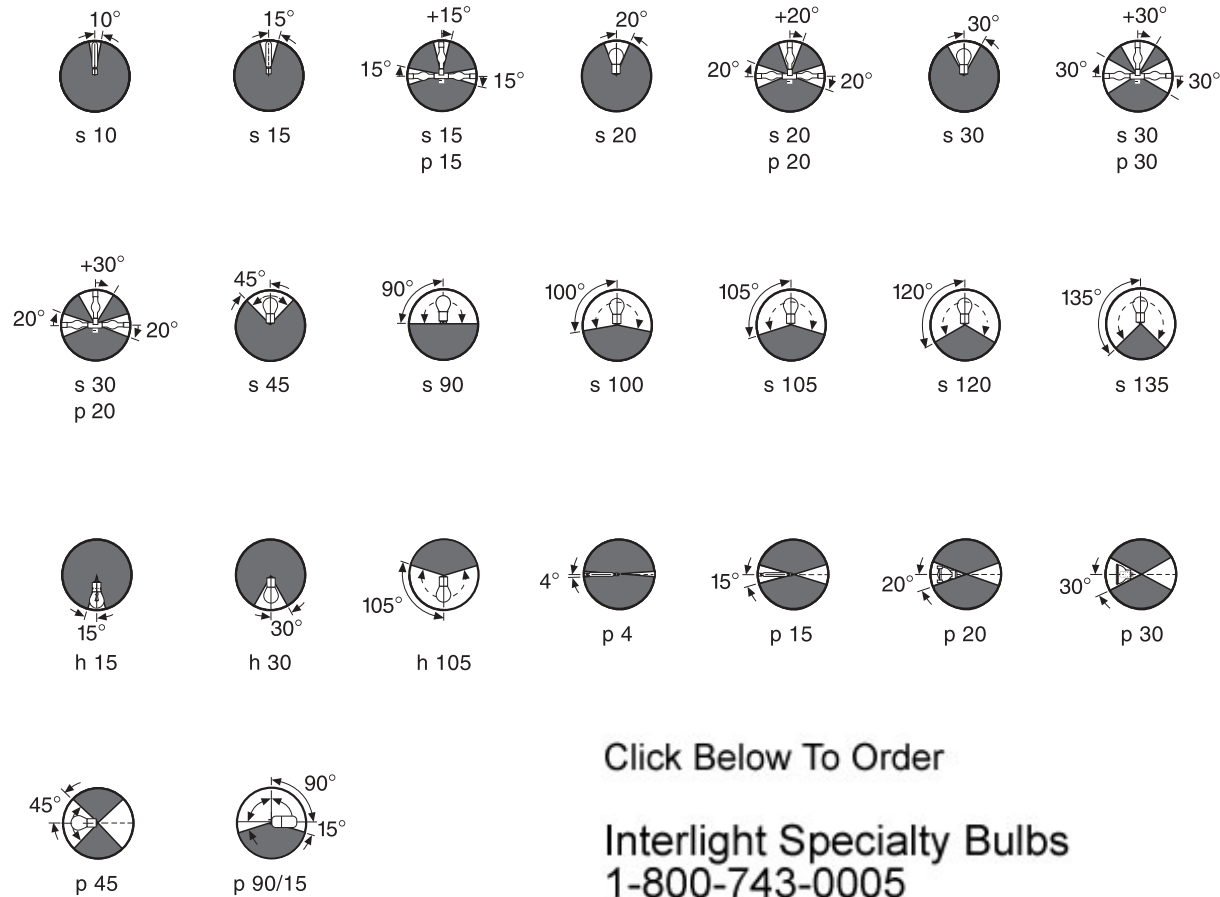
SFC10-4 M4-thread  
 SFC6-3 M3-thread  
 SFC12-4 M4-thread  
 SFC13-4 M4-thread

SX15s

X515  
 DIN 49613

## OPERATING POSITIONS

### Schematic diagrams



□ permitted  
■ not permitted

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## GENERAL INFORMATION

In North America, OSRAM brand Photo-Optic lighting products are sold by OSRAM SYLVANIA AND OSRAM SYLVANIA LTD. Sales are subject to standard terms and conditions of sale prevailing as of the date of purchase.

Operational data and dimensions are nominal values. OSRAM reserves the right to make technical modifications without notice. All supplies are subject to availability.

® = Registered trademarks of OSRAM GmbH



Lamps are designated in accordance with ANSI standard C78.370-1982 (As amended).

When disposing of spent lamps, always consult federal, state, local and/or provincial hazardous waste disposal rules and regulations to ensure proper disposal.

Use of improper, unapproved or unsuitable ballasts will negatively impact the performance of Photo-Optic lamps and could void the lamp warranty. A list of power supply manufacturers is available upon request.

Discharge lamps in the HMD®, HMI®, HMP®, HTI®, HSR®, HSD®, HBO®, OSRAM STUDIOLINE® and VIP® types and the spectral lamps contain small quantities of harmful substances (such as mercury).

## SYMBOLS & FOOTNOTES FOR PHOTO-OPTIC HALOGEN LAMPS

| Symbol  | Description   |
|---|---|
|  | New item introduced within the past year.             |
|  | Item will be discontinued when inventory is depleted. |

| Footnote | Description   |
|----------|---|
| 1        | Base - filament connections: Pins 1 and 4.  |
| 2        | Lamp has monoplane filament.  |
| 3        | Lamp has internal proximity reflector.  |
| 4        | Lumens refers to screen lumens.   |
| 5        | Lamp also available as a 240V model (Product Number 54977).   |
| 6        | Product number 54100 is the replacement for product number 54048.   |
| 7        | Lamp service life 75hr life is defined at 76V with a duty cycle of 45 min. ON / 15 min. OFF.  |
| 8        | Lamp suited for video camera heads; 500hr life @ 1.8V/ 45 min. ON / 15 min. OFF.  |
| 9        | Lamp has round-core double filament.  |
| 10       | h (Operating Position) = Vertical, base up  |
| 11       | Lamp has a flat core filament with filament area perpendicular to the lamp axis.  |
| 12       | Lamp also available in 240 V model.   |
| 13       | Length l1 = Contact to contact.   |
| 14       | Length l = Contact to contact.  |
| 15       | Lamp also available as 115V model (Product Number 54636).   |
| 16       | Lamp interchangeable with HX 600  |
| 17       | Lamp has a biplane filament.  |
| 18       | Lamp interchangeable with HX 602  |
| 19       | High-performance HPL halogen lamps are manufactured under license from ETC, Inc.  |
| 20       | Do not tilt perpendicular to the filament.  |
| 21       | NSP=Narrow Spot   |
| 22       | WFL=Wide Flood  |
| 23       | VNSP=Very Narrow Spot.  |
| 24       | MFL=Medium Flood  |
| 25       | For use where seal temperature does not exceed 650F.  |
| 26       | Life at rated voltage and at 650F maximum seal temperature.   |
| 27       | Clean room ready packaging.   |
| 28       | A suitable protective shield, screening technique, or both must be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation. |
| 29       | High temperature base. Retards seal deterioration where seal temperature exceeds 650F.  |
| 30       | Usually limited to intermittent burning.  |
| 31       | Average service life of lamp if operated with 400W is 100 hrs.  |
| 32       | Snap-on connector, female / male contact.   |
| 33       | Connector = Female, round, with 4mm pin.  |
| 34       | Lamp also available with male connectors (Product Number 58722)   |
| 35       | Female contact is according to DIN 46247.   |
| 36       | Lamp also available with female connectors (Product Number 58697)   |
| 37       | Male contacts according to DIN 46248.   |
| 38       | Lamp also available with female connectors (Product Number 58721)   |
| 39       | Lamp also available with female connectors (Product Number 58709)   |
| 40       | This lamp type is twice the life of the ANSI standard version.  |
| 41       | WARNING: Lamp only for use where seal temperature does not exceed 650 degrees F (343 degrees C). Minimum bulb wall temperature 480 degrees F (249 degrees C).                                 |
| 42       | Lamp also available with male contact according to DIN 46248. 64361/HLX Z (Product Number 58717)  |

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## SYMBOLS & FOOTNOTES FOR PHOTO-OPTIC HALOGEN LAMPS

| Footnote | Description   |
|----------|---|
| 43       | This lamp type is twice the life of the standard version. |
| 44       | Max. Beam Candlepower (MBCP) : 175 kcd.                   |
| 45       | Lamp has snap-on male contact to DIN 46248.               |

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## SYMBOLS & FOOTNOTES FOR PHOTO-OPTIC DISCHARGE LAMPS

| Symbol   | Description   |
|--|---|
|  | New item introduced within the past year.             |
|  | Item will be discontinued when inventory is depleted. |

| Footnote | Description  |
|----------|--|
| 1        | Type of current: square-wave AC.   |
| 2        | p (Operating Position) = Horizontal  |
| 3        | OSRAM socket #46721, cable length 22" for use with the following OSRAM lamps: HTI 250W/SE (product number 54091), HTI 400W/SE (product number 54084), HTI 600W/SE (product number 54087), and HMI 250W/SE (product number 54062).* |
| 4        | Type of current: sine-wave (sinusoidal) AC.  |
| 5        | In horizontal operation position it is recommended that the "lead connection" wire be in the top position with filler tip facing down.   |
| 6        | Optimized lamp seal technology to withstand interior base temperatures of up to 450 degrees C.   |
| 7        | GS=Gap Shortened   |
| 8        | S=Short  |
| 9        | Lamp bases need to be forced cooled.   |
| 10       | Necessary input voltage: 380 volt.   |
| 11       | Permitted wattage range: 400W to 700W.   |
| 12       | Lamp filler tip needs to point upwards during operation.   |
| 13       | Permitted wattage range: 300W to 600W.   |
| 14       | Lamp arc needs to be in horizontal operating position.   |
| 15       | Current bar needs to be positioned underneath the discharge arc during operation.  |
| 16       | Lampholder for FaX 1.5 base = HMI Socket 46721 (Product Number 69302).   |
| 17       | All HTI® lamps are hot restrikeable with the exception of HTI 150, HTI 152, HTI 405 W/SE, and 705 W/SE.  |
| 18       | SE=Single Ended  |
| 19       | WARNING: Lamp has a special GY22 base. Ignition voltage must be applied only to the thin pin.  |
| 20       | WARNING: The contact pins on the base are connected internally. The electrode farthest from the base must be connected via cable.  |
| 21       | DX=Type of Double Ended  |
| 22       | Lamp is also available with connecting cable and plug-in contact. HTI 250W/32 C (Product Number 54089).  |
| 23       | When operated on electronic control gear (ECG) service life extended to 3000h.   |
| 24       | Lamp HSD 250/78 also available with 7800K color temperature and average rated life at 3000 hr. Product Number 54118.   |
| 25       | All VIP® lamps are for AC operation on electronic power supplies and are hot restrikeable. All VIP® lamps need forced cooling.   |
| 26       | Lamp has a elliptical reflector.   |
| 27       | Lamp also available in ozone-free version XBO 75 W/2 OFR (Product Number 69232)  |
| 28       | This lamp has positive pressure even when cold. Please read safety/warning instructions before using this lamp.  |
| 29       | Distance a is from end of base to the respective electrode tip (cold) - see lamp drawing.  |
| 30       | With vertical operating position: anode(+) on top.   |
| 31       | OFR=Ozone Free   |
| 32       | Lamp also available with connecting cable and plug-in contact. XBO R 100W/45 C OFR (Product Number 69191).   |
| 33       | Lamp current not to exceed 7.2A.   |
| 34       | The focus lies 45mm in front of the mounting rim (working distance).   |
| 35       | C=Cable  |

## SYMBOLS & FOOTNOTES FOR PHOTO-OPTIC DISCHARGE LAMPS

| Footnote | Description   |
|----------|---|
| 36       | The connecting cables do not have a plug-in connector.  |
| 37       | Lamp also available in ozone-free version XBO 150 W/1 OFR (Product Number 69235)  |
| 38       | Lamp also available in Suprasil quartz glass version: XBO 150 W/4 (Product Number 69238).   |
| 39       | Lamp uses Suprasil quartz glass.  |
| 40       | Magnetic arc stabilization required.  |
| 41       | Lamp is suitable for Crosfield color scanner (CR = Crosfield).  |
| 42       | Lamp also available with connecting cable and plug-in contact. XBO 180W/45 C OFR (Product Number 69183).  |
| 43       | Lamp focus is 60mm in front of reflector rim.   |
| 44       | Lamp also available in ozone-free version XBO 450 W OFR (Product Number 69245)  |
| 45       | Lamp also available in Suprasil quartz glass version XBO 450 W/4 (Product Number 69244)   |
| 46       | Photometric data is measured in vertical operating position at rated wattage.   |
| 47       | CA=Cable on anode base  |
| 48       | TP=Threaded Pin   |
| 49       | Lamp also available as XBO 2001 W/HTP OFR (Product Number 69310).   |
| 50       | SHSC=Super short  |
| 51       | Lamp has same dimensions as XBO 1600 W/HSC OFR (Product Number 69268).  |
| 52       | Lamp also available as XBO 4200 W/GS with 60mm bulb diameter and 500 hrs life.  |
| 53       | H=Suitable for horizontal operation   |
| 54       | Magnetic arc stabilization: necessary for horizontal operation  |
| 55       | Lamp XBO 10000 W/HS OFR also available with current control range 160-299 amps. Product Number 69342.   |
| 56       | Lamp optimized for fluorescence microscopy.   |
| 57       | Lamp also available with AMP plug contact. HBO R 103/45 C (Product Number 69311).   |
| 58       | For DC operation both Product Numbers 69198 & 69222 can be used (47...65Volts / 3.1...4.2Amps). For AC operation Product Number 69198 (L1 version 57 65 Volt / 3.6 Amps) or Product Number 69222 (L2 version 49 57 Volt / 4.2 Amps) can be used.  |
| 59       | Lamp also available with threaded pin 8-32 UNC-3A: HBO 200 W/2TM (Product Number 69223).  |
| 60       | Technical data if operated on AC current: Volts=65, Lumens=10,000 lm, Luminous Efficacy=50 lm/W.  |
| 61       | For DC operation both Product Numbers 69221 & 69223 can be used (47...65 Volts / 3.1...4.2Amps). For AC operation Product Number 69221 (L1 version 57 65 Volt / 3.6 Amps) or Product Number 69223 (L2 version 49 57 Volt / 4.2 Amps) can be used. |
| 62       | Lamp also available with increased radiation in the wavelength range below 450nm for UV-curing. HBO 202W/4 (Product Number 69316).  |
| 63       | 2000hr warranty against non-passive lamp failure.   |
| 64       | Lamp same as HBO 200 W/4 (Product Number 69224 but with increased radiation in the wavelength range below 450nm for UV-curing.  |
| 65       | Lamp also available with 850 hrs (HBO 3500 W/PI, Product Number 69174)  |
| 66       | Anode Base=Cooling fins with cable connection (M 8).  |
| 67       | Anode and Cathode Base with UNC-3A thread.  |
| 68       | Lamps suitable for pulse operation between 250W and 500W. Maximum permissible average power is 350W (also for constant power operation).  |
| 69       | HBO 350W (Product Number 69226) replaces HBO 350 W/G (Product Number 69227).  |
| 70       | Lamp service life is defined with a switch-on/switch off duty cycle of 12hours ON / 30 minutes OFF.   |
| 71       | Maximum permitted base temperature: 200 degrees C (392 degrees F).  |
| 72       | Lamp base(s) with M 5x0.9 thread.   |
| 73       | Cathode base with M 5x 0.9 thread   |
| 74       | Lamp anode base (hexagon) with thread M5x0.9  |
| 75       | Anode Base=Hexagon base with M 6 thread.  |
| 76       | Lamps suitable for pulse operation between 700W and 1000W. Maximum permissible average power is 750W (also for constant power operation).   |
| 77       | Cathode Base=Sleeve base with M 6 thread.   |
| 78       | Cathode base with cable connection (M 5)  |
| 79       | Cathode Base with cooling fins.   |
| 80       | Anode sleeve base without thread.   |

## SYMBOLS & FOOTNOTES FOR PHOTO-OPTIC DISCHARGE LAMPS

| Footnote | Description  |
|----------|--|
| 81       | Anode Base=Sleeve base with cable connection (M 5)   |
| 82       | Anode Base=Sleeve base with cable connection (M 6).  |
| 83       | Lamp has cooling fins on anode base.   |
| 84       | Lamp also available as Longlife version HBO 1003 W/PIL (Product Number 69180) with 1500hr life.  |
| 85       | Lamp also available as version HBO 1003 W/PI with 850hr life (Product Number 69195)  |
| 86       | Anode Base with cable connection (M 8).  |
| 87       | Lamp also available as Longlife version HBO 1500 W/CIL (Product Number 69179) with 1500hr life.  |
| 88       | Cathode Base with cable connection (M 8).  |
| 89       | Anode Base with cable connection (M 10).   |
| 90       | Lamp also available as Longlife version HBO 1500 W/PIL (Product Number 69181) with 1500hr life.  |
| 91       | Lamp also available with 850 hr HBO 1500 W/PI (Product Number 69319)   |
| 92       | Lamp should not be ignited more than ten times over lifetime.  |
| 93       | Lamp also available as version HBO 2001 W/CI with 850hr life (Product number 69219)  |
| 94       | Lamp also available as version HBO 2001 W/CIL with 1500hr life (product number 69189)  |
| 95       | Cathode Base with cable connection (M 6).  |
| 96       | The average rated life of this lamp depends on the operating mode (initial power setting).   |
| 97       | Lamp also available as version HBO 2500 W/PI with 850hr life (Product Number 69178)  |
| 98       | Anode base with cable: length 340mm; connector 8/25.   |
| 99       | Distance a = Distance (cold) of either anode base to anode tip or cathode base to cathode tip depending on lamp type.  |
| 100      | Lamp also available as Longlife version HBO 3500 W/PIL with 1500hr life (Product Number 69169).  |
| 101      | Average service life of lamp if operated with 400W is 100 hrs.   |
| 102      | Also available with 850h, HBO 3501 W/PI: NAED 69127.   |
| 103      | SHP - series (Super High Performance Technology).  |
| 104      | Lamp life may vary depending on duty cycle and application.  |
| 105      | The XERADEX® 20 lamp must be operated with DBD 20/110-240/ECG-XERADEX power supply (Product Number 69128 or 69129).  |
| 106      | XERADEX lamps are only to be operated in appropriate equipment. Read and understand the Product Safety Warnings before using this product. XERADEX lamps generate a strong 172 nm (VUV) radiation. This short-wave radiation will convert atmospheric oxygen (O <sub>2</sub> ) surrounding the lamp into ozone (O <sub>3</sub> ). Ozone gas is toxic when inhaled in high concentrations over long periods of time. Ozone levels can be measured and monitored with commercial measuring equipment. Always keep ozone levels below the applicable TLV (threshold limit value). |
| 107      | XERADEX lamp life is rated in terms of 70% of initial UVC output on a continuous burn cycle.   |
| 108      | Base is KF50 flange fitting; lamp is designed for use in vacuum environments at pressures above 300 mbar.  |
| 109      | Base is KF50 flange fitting; lamp is designed for use in high vacuum environments at pressures above 200 mbar and below 10 <sup>-3</sup> mbar.   |
| 110      | Base is KF40 flange fitting; lamp is designed for use in high vacuum environments at pressures above 30 mbar and below 10 <sup>-3</sup> mbar.  |
| 111      | For Na 10 FL (product number 69284) use adapter no. 454/s using Pico 9 bases with P28 sockets.   |
| 112      | Safety: Because the danger from glare, UV radiation and overpressure during operation, spectral lamps may only be operated in sealed housings specially designed for the purpose. Suitable filters must be fitted to ensure that UV radiation is reduced to permissible levels.  |



## WARNING

## TUNGSTEN HALOGEN &amp; INCANDESCENT PHOTO-OPTIC LAMPS

The following information pertains to all Photo-Optic Tungsten-Halogen and Incandescent lamps including Infrared Heat Lamps, Current-Controlled Airfield Lamps, PAR and other Reflector Lamps.

**WARNING:**

In accordance with ANSI/IESNA Standard RP-27, Photo-Optic incandescent & tungsten halogen lamps are Risk Group 2 products.

Read and understand this warning before using this bulb!

**THIS LAMP EMITS ULTRAVIOLET AND INFRARED RADIATION. ALWAYS WEAR SUITABLE EYE PROTECTION WHEN WORKING NEAR THIS LAMP. THIS LAMP OPERATES AT HIGH PRESSURE AND AT HIGH TEMPERATURE AND MAY SHATTER UNEXPECTEDLY. THIS LAMP MUST BE USED IN A FIXTURE THAT HAS A SUITABLE PROTECTIVE SHIELD AND/OR SCREEN TO PROTECT PEOPLE AND SURROUNDINGS AGAINST THE RISK OF PERSONAL INJURY AND/OR PROPERTY DAMAGE FROM LAMP SHATTERING AND EXPOSURE TO INFRARED OR ULTRAVIOLET RADIATION.**

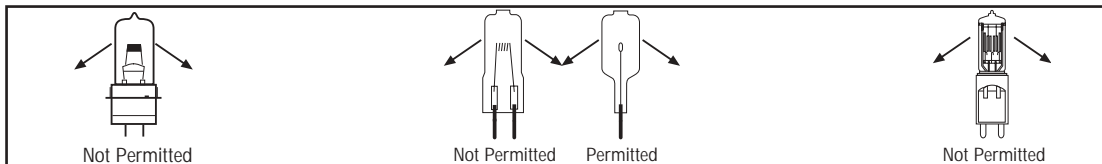
**ALL OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED FOR SAFETY AND TO OBTAIN SATISFACTORY LAMP PERFORMANCE.**

**GENERAL SAFETY AND INSTALLATION TIPS:**

1. This lamp generates UV (ultraviolet) and/or IR (infrared) radiation. Prolonged exposure to this lamp may cause skin and eye irritation from the radiation when operated at or above rated voltage.  
Please note that lamp with reference number 64614 has enhanced UV output as a result of its reflector coating.
2. To avoid risk of serious eye injury from the intense light, do not stare at operating lamp.
3. Because this lamp radiates considerable heat, do not use in close proximity to people, combustible materials, or substances adversely affected by heat or drying.
4. To avoid shattering of glass parts and/or lens/reflector, keep water, other liquids and metal objects from contacting hot glass surfaces. Protect the entire lamp from moisture (rain, snow, etc.) to avoid cracking or breaking.
5. Protect the lamp from contamination, abrasion and scratches. Do not use if lamp is scratched, cracked or damaged in any way.
6. For safe and proper lamp operation, operate at rated voltage and wattage. Operation above rated voltage increases UV output and internal pressure, thus increasing the risk of rupture.
7. This lamp (for reflectorized lamps, this applies to inner lamp capsule) operates at high internal pressure and at high surface temperature and may unexpectedly shatter resulting in hot, flying fragments of glass or metal. Although this lamp was carefully constructed, tested and inspected before packing and shipping, under certain conditions beyond the manufacturer's control, the glass parts could crack or break.
8. For PAR and other reflectorized lamps: Even though this lamp may continue to operate after the reflector and/or lens is broken or damaged, it should be replaced as soon as possible since the pressure-filled inner lamp capsule could unexpectedly shatter if scratched or otherwise damaged, creating a risk of personal injury or property damage.

**LAMP MOUNTING AND OPERATION:**

1. Use only in equipment/fixture specifying this lamp type, including voltage and wattage. Use in circuits, which do not exceed rated voltage and in sockets and equipment designed for its use.
2. Do not touch or handle the quartz glass with bare fingers. Contaminants can burn in at high operating temperatures and cause glass to recrystallize. This makes the glass opaque and milky; it increasingly loses its strength, and the risk of bursting increases. If lamp is touched, clean with denatured alcohol and wipe dry with a soft, clean lint-free cloth before operating.
3. Make sure lamp is properly installed into socket to obtain good electrical contact and to avoid damaging lamp and/or socket. A heat resistant connector should be used to make electrical contact to the lamp base for safety and to obtain rated lamp life. To avoid damage to lamps with bipin bases, do not twist. Pull old lamp straight out and push new lamp straight in. For safe and proper operation of lamps with lead wires, please ensure that the lamp is securely supported and the lead-wires are securely connected to the electrical supply.  
For PAR 36, 46, 56, 64 lamps: To avoid breaking, the lamp must be supported by its rim.
4. Operating temperatures deteriorate lamp sockets. Socket condition may affect lamp life. Replace socket if deterioration of socket or lamp base contacts is observed.
5. Do not move, bump or bounce equipment/fixture during operation because mechanical shock can cause shattering and failure of the lamp.
6. For PAR 36, 46, 56 and 64 lamps: Lamp should be operated with a protective shield (especially in public places -- churches, auditoriums, etc) to prevent the risk of personal injury or property damage from flying lamp fragments in the event of the lamp cracking or breaking.
7. To avoid risk of burns or electrical shock, do not remove or insert lamp when power is on, allow lamp to cool to room temperature before removing or storing.
8. Replace all equipment/fixture covers and shields after servicing to prevent personal injury or property damage.
9. All Photo-Optic lamps have a range of permissible operating positions. Please see relevant operating position information in our literature or on-line catalog and only operate lamps at the operating positions specified. The basic rule for all single-ended Photo-Optic halogen and incandescent lamps is that the lamp may only be tilted/inclined perpendicular to the plane through both filament lead-wires (see illustrations and list of affected filament designs below).

**Affected Filament Designs:**

C-2V, C-6, C-6F, C-13, C-13D, CC-2V, CC-6, CC-13, CC-13D, 2C-8, 2CC-8

10. Keep lamp seal temperature below 350°C (660°F) and the lamp wall temperature between 250°C (480°F) and 900°C (1650°F). When used in equipment designed to provide cooling to operating lamp, do not obstruct equipment cooling system.
11. Filaments for high luminance applications are designed in such a way that the incandescent elements do not block each other in the direction of projection. The positioning of single filament coils in one plane is called a monoplane filament. Biplane filaments have the incandescent elements staggered forward and backward in two parallel planes while maintaining adequate spacing to prevent arc-over.
12. Note: Photometric values of a frosted lamp will vary from the published values of the same non-frosted type.

## TUNGSTEN HALOGEN &amp; INCANDESCENT PHOTO-OPTIC LAMPS (continued)

## LAMP DIMMING:

1. **Incandescent lamps (non-halogen):** Incandescent lamps perform according to fixed relationships between luminous flux, luminous efficacy, color temperature, electrical voltage, electrical current and electrical power consumption. In general, a 5% increase in applied lamp voltage results in half the lamp life, and conversely a 5% reduction of lamp voltage results in twice the lamp life.
2. **Tungsten-Halogen Lamps:** In standard incandescent lamp operation, there is an inverse relationship of lamp life vs. supply voltage; i.e., the lower the voltage, the longer the life. In some tungsten halogen lamps, however, this holds true only when operated within 5 to 10% of the rated voltage. Further dimming, beyond the 10%, may affect the halogen chemistry in the lamp and may cause filament corrosion. There are also tungsten halogen lamps that only achieve nominal lamp lives regardless of the level of dimming that is used. Unlike standard incandescent lamps, the relationships in halogen lamps are not clear-cut because of the halogen chemical cycle. For the vaporized tungsten to be removed from the inner bulb wall, a minimum bulb wall temperature is necessary. This temperature is directly related to the power input to the lamp such that a reduction in power effects a reduction in the bulb wall temperature. Special design techniques have been incorporated in modern halogen lamps to prevent blackening regardless of the level of dimming. Consideration must be given to lamp dimming in applications that require maximum constancy of color temperature (photographic and video recording, for example), since the color temperature changes with the filament temperature.

## CURRENT-CONTROLLED HALOGEN LAMPS:

Some lamp types are designed for constant current operation, primarily for airfield applications. They are usually operated in series with an isolation transformer tap connected to each lamp to ensure that all lamps have the same brightness. Constant current-operated lamps differ in performance from the published values of constant applied voltage lamps. Direct series connection of non-constant current designed lamps is not recommended.

## INFRARED HEAT LAMPS:

These lamps are designed for use in applications specifically requiring an infrared radiation source. Infrared radiation from these lamps causes surfaces to be heated. These lamps operate at high temperatures. Allow sufficient cooling time before handling. A listing of Kelvin temperatures, method for electrical connection, and operating positions with appropriate cooling recommendations for tungsten halogen special heat lamps can be found in the OSRAM literature or in the on-line catalog.

**CAUTION:** The infrared reflector lamp, HLX 64635 is specially designed to produce high temperatures at its focal point (approximately 1300°C / 2372°F) for soldering, welding and heating applications.

## LAMP DISPOSAL:

1. Disposal of spent lamps must be in accordance with applicable federal, state/provincial, and local regulations.
2. Lamp users in North America may obtain specific state or province information concerning disposal regulations, toll free, by calling 1-866-666-6850.
3. OSRAM SYLVANIA Products Inc. cannot advise lamp users as to general or specific disposal regulations for federal, state/provincial, and/or local municipalities.

## WARNING

METAL HALIDE PHOTO-OPTIC LAMPS [HMI<sup>®</sup>, HMD<sup>®</sup>, HMP<sup>®</sup>, HSD<sup>®</sup>, HSR<sup>®</sup>, HTI<sup>®</sup>]

## WARNING:

In accordance with ANSI/IESNA Standard RP-27, Photo-Optic metal halide lamps are a Risk Group 3 product.

*Read and understand this warning before using this lamp!*

**THIS LAMP EMITS ULTRAVIOLET AND INFRARED RADIATION. ALWAYS WEAR SUITABLE EYE PROTECTION WHEN WORKING NEAR THIS LAMP. THIS LAMP OPERATES AT HIGH PRESSURE AND AT HIGH TEMPERATURE AND MAY SHATTER UNEXPECTEDLY. THIS LAMP MUST BE USED IN A FIXTURE THAT HAS A SUITABLE PROTECTIVE SHIELD AND/OR SCREEN TO PROTECT PEOPLE AND SURROUNDINGS AGAINST THE RISK OF PERSONAL INJURY AND/OR PROPERTY DAMAGE FROM LAMP SHATTERING AND EXPOSURE TO INFRARED OR ULTRAVIOLET RADIATION.**

## RUPTURE &amp; RADIATION (UV-IR-VISIBLE) HAZARD:

1. All Photo-Optic metal halide lamps operate at high internal pressures (upwards of 500psi or 35bar possible) and may unexpectedly rupture resulting in the discharge of hot fragments (approximately 800°C / 1472°F) of quartz and/or metal particles, as well as the release of mercury/mercury vapor. In the event of such a rupture, there is a risk of personal injury, burns and fire.
2. All Photo-Optic metal halide lamps generate ultraviolet (UV), infrared (IR) and visible radiation during operation. This radiation can cause permanent damage to the eyes (including blindness) and serious injury to the skin (including burns and blistering). To avoid eye damage, other personal injury and/or property damage, the lamp **MUST** be operated in a suitable fixture.
3. A suitable fixture is one that will prevent the arc from being viewed directly while operating, and in the event of a lamp rupture, will prevent hot (up to 800°C / 1472°F), flying fragments of quartz and/or metal from escaping into the area.
4. To minimize the risk of a lamp rupture, replace the lamp at or before the end of rated life (see OSRAM SYLVANIA product catalog for rated life) or when the lamp shows signs of blackening.
5. The discharge vessel of Photo-Optic metal halide lamps is constructed of quartz glass that is filled with a quantity of mercury, elemental metals and/or rare earth elements. These lamps are **not** at positive pressure when cold (not operating, at room temperature).

## GENERAL SAFETY &amp; INSTALLATION TIPS

## BROKEN LAMPS (MERCURY VAPOR RELEASE AND DISPOSAL):

1. In the event of a lamp rupturing during operation, all personnel should leave the area immediately to avoid the inhalation of mercury vapor. The area should then be thoroughly ventilated for a minimum of 30 minutes or until the mercury vapor in the area is below the ACGIH TLV (American Conference of Governmental Industrial Hygienists Threshold Limit Value). Inhaling vapor or small particles of mercury or its compounds can be harmful to lungs, kidneys and nervous system. Penetration of the skin or ingestion can also be harmful.
2. To avoid mercury vapor getting into air conditioning systems, mercury vapor-absorbing filters should be used. ***When the lamp housing has cooled, mercury residue may be picked up with special mercury adsorptive agents or a mercury vacuum cleaner (available from laboratory safety equipment suppliers) and disposed of in accordance with local, state and federal regulations.*** There should be no direct skin contact with and/or inhalation of mercury residues that may be residing in lamp housing, optics or lamp parts.  
If a cold (room temperature) lamp is broken, proceed with clean up and disposal as indicated above (in the ***bold, italic statement***).

METAL HALIDE PHOTO-OPTIC LAMPS [HMI<sup>®</sup>, HMD<sup>®</sup>, HMP<sup>®</sup>, HSD<sup>®</sup>, HSR<sup>®</sup>, HTI<sup>®</sup>](continued)

**INSTALLATION:**

1. Do not use if lamp is scratched, cracked or damaged in any way.
2. To prevent electric shock, shut off main power to the fixture before attempting to service or replace lamp.
3. To avoid damaging the quartz and causing premature lamp failure, do not handle lamp with bare hands. Use clean gloves.
4. If the quartz parts are inadvertently touched, clean fingerprints off with denatured alcohol and wipe dry with a clean, soft, lint-free cloth. Do not use cleaning rags or material that can leave a residue.
5. To prevent skin burns, allow lamp to cool before handling.
6. To avoid breakage, mounting of the lamp must be free of mechanical stress during installation and during operation by allowing for thermal expansion along its axis.
7. Photo-Optic metal halide lamps should not be subjected to force/stress during installation. Single-ended lamp types use a metal bar, which runs parallel to the lamp body and provides an electrical path for the lamp current (from the socket end to the opposite end of the lamp). To avoid overheating the lamp current bar, Photo-Optic metal halide lamp types without outer jackets should not have the lamp current bar positioned above the discharge arc during operation. Single-ended lamp types with outer jackets may be operated in any position and with any current bar position.
8. Replace all fixture covers and shields after replacing lamp to prevent eye damage, other personal injury or property damage.
9. Use only in instruments/equipment specifying this light source.
10. **CAUTION - Shorting Hazard:** The HTI 2500 W/SE has both base pins connected to the same point inside the lamp socket. A lead wire on the opposite side of the lamp provides the current connection necessary for operating the lamp.
11. Make sure lamp is properly installed into socket/connector to obtain good electrical and thermal contact and avoid damaging lamp and/or socket/connector. electrical connections should be free from dirt and corrosion. Socket/connector condition may affect lamp life. Replace socket/connector or lamp if deterioration (pitting, scorching, corrosion, etc.) is observed.

Please note that certain Photo-Optic, AC metal halide lamps have dedicated pins or connectors for high voltage ignition.

**OPERATION:**

1. Magnetic current-limiting ballasts (chokes) provide sine-wave current operation for lamps. However, electronic control gear (ECG) allows for square wave current operation, often at higher frequencies. Some Photo-Optic metal halide lamps have been designed for, and therefore require, ECG square-wave operation. Please see OSRAM literature for power requirements for your specific lamp type.
2. Operate with compatible power supply and fixture only.
3. OSRAM Photo-Optic metal halide discharge lamps are designed for either hot re-start (high ignition voltages) or cold start (low ignition voltages only). Please see OSRAM literature for power requirements for your specific lamp type.
4. To ensure that lamps operate at the correct power during AC operation, connections on the ballast/choke in the power supply should be made to the correct voltage taps; i.e., tap voltage should match input line voltage. To avoid wall blackening, overheating or other premature failure modes, OSRAM strongly advises against operating Photo-Optic metal halide lamps at higher than rated wattage ("boosted operation"). Only OSRAM HMP Photo-Optic metal halide lamps are offered with a unique power feature allowing for operation at increased wattage of up to 1.5 times their rated wattage, but with reduced service life. For safe lamp operation and optimum performance, use only those ballasts/power supplies that have been approved by OSRAM. See your OSRAM dealer for a list of approved equipment.
5. Dimming of Photo-Optic metal halide lamps, like incandescent lamps, causes a drop in luminous output. If a metal halide lamp is dimmed by electrical means, it will not reach its optimum operating state and, unlike incandescent lamps, will not last longer. When dimmed, the lamp wall temperature falls more rapidly on a lamp that has no outer jacket. In metal halide lamps without an outer jacket, reduced power operation causes an increase in the color temperature and a reduction in CRI. Lamps with outer jackets can have either a vacuum or filling gas (often Nitrogen) within. Metal halide lamps with outer jackets tend to maintain their color properties better under dimmed conditions because the outer jacket provides thermal insulation against internal lamp cooling.
6. Photo-Optic metal halide lamps need 5 to 20 minutes (depending on lamp type and cooling conditions) before they reach their operating temperatures. To ensure proper ignition on subsequent start-up, lamps should not be switched off during the warm-up period.
7. Average service life of these lamps is determined by the ON/OFF duty cycle. Lamp performance is reduced with increased duty cycle.

**OPERATING POSITION:**

Photo-Optic metal halide lamps may only be used in the operating positions described in the OSRAM SYLVANIA product catalog. Please note that lamp photometric values and arc stability can be effected by the operating position.

**OZONE GENERATION:**

- During operation, Photo-Optic metal halide lamps produce a spectrum that ranges from about 150 nm in the ultraviolet region to the infrared region.
- If the quartz glass bulb is transparent in the ultraviolet region between 180 and 220 nm, this short-wave radiation will convert a small quantity of atmospheric oxygen (O<sub>2</sub>) surrounding the lamp into ozone (O<sub>3</sub>). Moreover, the oxygen molecules will link together with the nitrogen (N<sub>2</sub>) in the air, creating nitrogen oxides (NO<sub>x</sub>). (Some believe that the smell attributed to ozone is in actuality from the nitrogen oxides.)
- Ozone gas is toxic when inhaled in high concentrations over long periods of time. Ozone levels can be measured and monitored with commercial measuring equipment. Always keep ozone levels below the applicable TLV (threshold limit value)
- An "ozone smell" (or smell of nitrogen oxide) may be detected shortly after ignition. There are two probable causes for this condition. O<sub>3</sub> and NO<sub>x</sub> production is caused by the (short-duration) radiation of the spark gap used for lamp ignition. Or, the cold condition of the quartz glass bulb has slightly shifted its UV-absorption characteristics thus permitting a small amount of radiation in the very short-wave ultraviolet range to be emitted by the bulb. Typically, after the lamp has run up to its operating temperature range, virtually no ozone is produced by the lamp, as a rule, due to the quartz glass absorption and the self-absorption of the plasma.

**LAMP COOLING:**

1. All Photo-Optic metal halide lamp bases must be kept below 230°C (446°F) during operation to prevent premature lamp failure. If convection cooling is inadequate, forced air-cooling may be used. Please see OSRAM literature for cooling requirements of specific lamp types.
2. If forced air-cooling is used, care must be taken to direct airflow at the bases only. Striking elsewhere on the lamp with the airflow will result in poor lamp performance or premature failure.
3. Discoloration, surface pitting, and/or corrosion of the lamp connections indicates a thermal overload. To obtain optimum lamp performance, components exhibiting these conditions must be cleaned or replaced.

**LAMP REMOVAL:**

- Turn off power to the lamp and allow lamp to cool (forced or convection) for a minimum of 30 minutes prior to shutting main fixture power and opening fixture. Do not remove lamp until it has cooled.
- Lamps should be placed in their original OSRAM SYLVANIA packaging for temporary storage until disposal and/or transportation to a disposal location. See "Lamp Transportation" and "Lamp Disposal" sections below for relevant information.

## METAL HALIDE PHOTO-OPTIC LAMPS [HMI<sup>®</sup>, HMD<sup>®</sup>, HMP<sup>®</sup>, HSD<sup>®</sup>, HSR<sup>®</sup>, HTI<sup>®</sup>] (continued)

### LAMP TRANSPORTATION:

1. All Photo-Optic metal halide lamps should be transported ONLY in their original packaging.
2. Transportation in non-original packaging can damage the lamp and void warranty.
3. U.S. Federal regulations require mercury-containing lamps to be shipped ONLY in DOT-compliant packaging. Original OSRAM packaging is DOT-compliant.

### MERCURY FILL OF Photo-Optic METAL HALIDE LAMPS:

- Mercury is referred to by its chemical symbol, Hg, which is derived from the Greek and Latin "hydrargyrum," a silvery shiny liquid metal at room temperature. In humid air it is covered with a gray oxide skin. Of all metals it has the highest vapor pressure which increases exponentially with rising temperatures. For this reason, mercury is volatile at room temperature. The colorless and odorless vapors produced are poisonous and heavier than air.
- The inhalation (respiration) of mercury or mercury compounds as vapor or dust will lead to the damage of lungs, kidneys, and the nervous system. Apart from inhalation, mercury can be transmitted through the skin (penetration) or through the gastro-intestinal tract (ingestion), which is also harmful.
- The ACGIH TLVs are merely guidelines to assist in the control of health hazards. The ACGIH states that the TLVs refer to airborne concentrations of substances and represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse health effects. Therefore, the TLV for mercury should never be exceeded.
- Analytical detection of mercury vapor is possible by means of gas/vapor detector tubes (rough measurement) or air-monitors that absorb mercury vapor.

OSRAM metal halide lamps have the following mercury contents:

| Lamp Family | Maximum Mercury Content (mg) |
|-------------|------------------------------|
| HMI         | 1200                         |
| HMP         | 70                           |
| HTI         | 180                          |
| HSR/HSD     | 110                          |
| HMD         | 520                          |

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### PROPERTIES OF MERCURY:

- Chemical symbol: Hg
- Atomic number: 80
- Molecular Weight: 200.59
- Density: 13.6 g/cm<sup>3</sup> @ 20°C / 68°F
- Melting Point: -39°C / -38.2°F
- Boiling Point: 357°C / 674°F
- Vapor pressure:
  - 160 Pa @ 20°C / 68°F
  - 370 Pa @ 30°C / 86°F
  - 823 Pa @ 40°C / 104°F
- Concentration in air:
  - 13.6 mg/m<sup>3</sup> @ 20°C / 68°F
  - 29.6 mg/m<sup>3</sup> @ 30°C / 86°F
  - 62.7 mg/m<sup>3</sup> @ 40°C / 104°F
- CAS Registry Number: 7439-97-6
- RCRA waste number: U151
- Other Names: Hydrargyrum, Colloidal mercury, Kwik, Mercure, Mercurio, Metallic mercury, Quecksilber, Quick silver, Liquid Silver

### LAMP DISPOSAL:

1. Disposal of spent lamps must be in accordance with applicable federal, state/provincial, and local regulations. State laws may differ in their disposal requirements for lamps.
2. Lamp users in North America may obtain specific state or province information concerning disposal regulations, toll free, by calling 1-866-666-6850.
3. OSRAM SYLVANIA Products Inc. cannot advise lamp users as to general or specific disposal regulations for federal, state/provincial, and/or local municipalities. It is the responsibility of the waste generator to ensure proper classification and disposal of waste products.



Lamp Contains Mercury

Manage in accordance with disposal laws  
See [www.lamprecycle.org](http://www.lamprecycle.org) or 1-866-666-6850

### WARNING

### VIP<sup>®</sup> SUPER HIGH PRESSURE MERCURY LAMPS (PHOTO-OPTIC)

#### WARNING:

In accordance with ANSI/IESNA Standard RP-27, VIP Super High Pressure Mercury Lamps are Risk Group 3 products.

Read and understand this entire statement before using this lamp!

#### RUPTURE & RADIATION (UV- VISIBLE) HAZARD:

1. The discharge vessel of Super High Pressure Mercury VIP lamps is constructed of quartz glass that is filled with a quantity of mercury. These lamps are not pressurized when cold (i.e., at room temperature).
2. *All Super High Pressure Mercury VIP lamps have high internal pressures (up to approximately 3,675 psi or 250 bar) during operation and may unexpectedly rupture resulting in the discharge of hot fragments (approximately 800°C / 1472°F) of quartz and/or metal particles, as well as the release of mercury/mercury vapor.* In the event of such a rupture, there is a risk of personal injury, burns, and fire.
3. *Super High Pressure Mercury VIP lamps generate intense ultraviolet (UV), visible and infrared radiation during operation. This radiation can cause permanent damage to the eyes (including blindness) and serious injury to the skin (including burns and blistering).* To avoid eye damage, other personal injury, and/or property damage, the lamp MUST be operated in a suitable fixture.
4. A suitable fixture is one that will prevent the arc from being viewed directly while operating, and in the event of a lamp rupture, will prevent hot (up to 800°C / 1472°F), flying fragments of quartz and/or metal from escaping into the area.
5. To minimize the risk of a lamp rupture, replace the lamp at or before the end of rated life (see OSRAM SYLVANIA product catalog for rated life).

## VIP® SUPER HIGH PRESSURE MERCURY LAMPS (PHOTO-OPTIC) (continued)

**BROKEN LAMPS (MERCURY VAPOR RELEASE AND DISPOSAL):**

1. In the event of a lamp rupturing during operation, all personnel should leave the area immediately to avoid the inhalation of mercury vapor. The area should then be thoroughly ventilated for a minimum of 30 minutes or until the mercury vapor in the area is below the ACGIH TLV (American Conference of Governmental Industrial Hygienists Threshold Limit Value). Inhaling vapor or small particles of mercury or its compounds can be harmful to lungs, kidneys, and nervous system. Penetration of the skin or ingestion can also be harmful.
2. When the lamp housing has cooled, mercury residue may be picked up with special mercury adsorptive agents or a mercury vacuum cleaner (available from laboratory safety equipment suppliers) and disposed of in accordance with local, state, and federal regulations. There should be no direct skin contact with and/or inhalation of mercury residues that may be residing in lamp housing, optics or lamp parts.
3. If a cold (room temperature) lamp is broken, proceed with clean-up and disposal as indicated in item 2 above.

**GENERAL SAFETY & INSTALLATION TIPS****INSTALLATION:**

1. Do not use if lamp or any lamp parts such as reflector, front glass, etc. are scratched, cracked, or damaged in any way.
2. To prevent electric shock, shut off main power to the fixture before attempting to service or replace lamp.
3. If the quartz parts are inadvertently touched, clean fingerprints off with denatured alcohol and wipe dry with a soft, clean, lint-free cloth. Do not use cleaning rags or material that can leave a residue.
4. To prevent skin burns, allow lamp to cool before handling.
5. To avoid breakage, mounting of the lamp must be free of mechanical stress during installation and during operation by allowing for thermal expansion.
6. Super High Pressure Mercury VIP lamps should not be subjected to force/stress during installation.
7. Replace all fixture covers and shields after replacing lamp to prevent eye damage, other personal injury, or property damage.
8. Use only in instruments/equipment specifying this light source.
9. Make sure lamp is properly connected to avoid damaging lamp and/or socket/connector. Electrical connections should be free from dirt and corrosion. Socket/connector condition may affect lamp life.
10. Replace socket/connector or lamp if deterioration (pitting, scorching, corrosion, etc.) of either is observed.

**OPERATION:**

1. Super High Pressure Mercury VIP lamps are designed for operation on AC only.
2. Operate with compatible power supply and fixture only.
3. Super High Pressure Mercury VIP lamps need approximately 5 minutes (depending on lamp type and cooling conditions) before they reach their operating temperatures. To ensure proper ignition on the following start-up, lamps should not be switched off during the warm-up period.
4. The average service life of Super High Pressure Mercury VIP lamps is influenced by their ON/OFF-duty cycle. Lamp performance is reduced with increased duty cycle.

**OPERATING POSITION:**

Super High Pressure Mercury VIP lamps may only be operated in the positions described in the OSRAM SYLVANIA product catalog and/or technical literature.

**LAMP COOLING:**

1. To prevent premature failure, forced-air cooling is required. Maximum permitted lamp temperatures are described in the available technical literature.
2. Discoloration, surface pitting, and/or corrosion of the lamp connections indicate a thermal overload. Components exhibiting these conditions must be cleaned or replaced.

**LAMP REMOVAL:**

Turn off power to the lamp and allow lamp to cool (forced) for a minimum of 15 minutes prior to shutting main fixture power and opening fixture. Do not remove lamp until it has cooled.

**LAMP TRANSPORTATION:**

1. All Super High Pressure Mercury VIP lamps should be transported ONLY in their original packaging.
2. Transportation in non-original packaging can result in damage to the lamp thus voiding the warranty.
3. U.S. Federal regulations require mercury-containing lamps to be shipped ONLY in DOT-compliant packaging. Original OSRAM packaging is DOT-compliant.

**MERCURY FILL OF SUPER HIGH PRESSURE MERCURY VIP LAMPS:**

Mercury is referred to by its chemical symbol, Hg, which is derived from the Greek and Latin "hydrargyrum," a silvery, shiny liquid metal at room temperature. In humid air it is covered with a gray oxide skin. Of all metals it has the highest vapor pressure which increases exponentially with rising temperatures. For this reason, mercury is volatile at room temperature. The colorless and odorless vapors produced are poisonous and heavier than air.

The inhalation (respiration) of mercury or mercury compounds as vapor or dust may lead to the damage of lungs, kidneys, and the nervous system. Apart from inhalation, mercury can be transmitted through the skin (penetration) or through the gastro-intestinal tract (ingestion), which is also harmful.

Threshold Limit Values (TLVs) are not fine lines between safe and dangerous concentrations but are guidelines to assist in the control of health hazards. They represent the maximum exposure to substances, both short-term and long-term, that a person may experience without resulting in health-related problems. Therefore, the TLV for mercury should never be exceeded.

Analytical detection of mercury vapor is possible by means of gas/vapor detector tubes (rough measurement) or air-monitors that absorb mercury vapor.

OSRAM Super High Pressure Mercury VIP lamps have the following mercury contents:

| Power level | Maximum Mercury content (mg) |
|-------------|------------------------------|
| 100-200W    | 12                           |

**PROPERTIES OF MERCURY:**

- Chemical symbol: Hg
- Atomic number: 80
- Molecular Weight: 200.59
- Density: 13.6 g/cm<sup>3</sup> @ 20°C / 68°F
- Melting Point: -39°C / -38.2°F
- Boiling Point: 357°C / 674°F
- Vapor pressure: 160 Pa @ 20°C / 68°F  
370 Pa @ 30°C / 86°F  
823 Pa @ 40°C / 104°F

## VIP® SUPER HIGH PRESSURE MERCURY LAMPS (PHOTO-OPTIC) (continued)

- Concentration in air: 13.6 mg/m<sup>3</sup> @ 20°C / 68°F  
29.6 mg/m<sup>3</sup> @ 30°C / 86°F  
62.7 mg/m<sup>3</sup> @ 40°C / 104°F
- CAS Registry Number: 7439-97-6
- RCRA waste number: U151
- Other Names: Hydrargyrum, Colloidal mercury, Kwik, Mercure, Mercurio, Metallic mercury, Quecksilber, Quick silver, Liquid Silver

## LAMP DISPOSAL:

1. Disposal of spent lamps must be in accordance with applicable federal, state/provincial, and local regulations. Some U.S. states differ in their disposal requirements for lamps containing mercury.
2. Lamp users in North America may obtain specific state or province information concerning disposal regulations, toll free, by calling 1-866-666-6850.
3. OSRAM SYLVANIA INC. cannot advise lamp users as to general or specific disposal regulations for federal, state/provincial, and/or local municipalities.



## Lamp Contains Mercury

Manage in accordance with disposal laws  
See [www.lamprecycle.org](http://www.lamprecycle.org) or 1-866-666-6850

## WARNING

## XBO® HIGH PRESSURE XENON LAMPS

## WARNING:

In accordance with ANSI/IESNA Standard RP-27, this XBO bulb is a Risk Group 3 product.

*Read and understand this warning before using this bulb!*

XBO lamps are at high internal pressure when cold (up to 35 bar or approximately 525 psi) and at operating temperature (up to 80 bar or approximately 1200 psi at bulb wall temperatures of 600°C to 800°C). Therefore, XBO lamps may unexpectedly rupture resulting in the discharge of hot fragments of quartz and/or glass and metal. In the event of such a rupture, there is a risk of personal injury, burns and fire. Only handle lamps with their protective covers in place. Do not handle lamps without their protective covers unless government-approved (OSHA-approved in the U.S.A.) safety glasses, facemask (with neck protector), chest protector, and gauntlets are worn.

## RUPTURE &amp; RADIATION (UV-VISIBLE-IR) HAZARDS:

1. Intense ultraviolet (UV), visible, and infrared (IR) radiation is also generated during operation. This radiation can cause permanent damage to the eyes (including blindness) and serious injury to the skin (including burns and blistering). Some operating lamps also generate ozone (O<sub>3</sub>). Others, designated "OFR," are constructed of materials that prevent the generation of ozone. See the "Ozone Generation" section below.
2. To avoid eye damage, other personal injury and/or property damage, the lamp MUST be operated in a suitable fixture. A suitable fixture is one that will prevent the arc from being viewed directly while operating. It is ventilated to the outside for those lamps that produce ozone and, in the event of a rupture, will prevent hot (up to 800°C), flying fragments of quartz and/or glass or metal from escaping into the surrounding area.
3. To minimize the risk of a lamp rupture, the lamp must be replaced at or before the end of rated life (see catalog for rated life) or when the lamp shows signs of advanced blackening or quartz devitrification (recrystallization, a white, frosted appearance).
4. XBO lamps are constructed of quartz glass, tungsten electrodes and either tungsten support rods or molybdenum foils. High wattage XBO lamps used for cinema film projection have nickel-plated end caps (bases). Reflectorized XBO lamps have a dichroic-coated borosilicate glass reflector.

## GENERAL SAFETY &amp; INSTALLATION TIPS

## INSTALLATION:

1. Do not use if lamp is scratched, cracked, or damaged in any way.
2. To prevent electric shock, shut off main power to the fixture before attempting to service or replace lamp.
3. To avoid damaging the quartz and causing premature lamp failure, do not handle lamp with bare hands.
4. Handle lamp ONLY with suitable, clean, safety gloves. See special handling instructions for using government-approved personal protective safety equipment with high-pressure lamps.
5. If the quartz parts (or the reflector for reflectorized lamps) are inadvertently touched, clean fingerprints off with denatured alcohol and wipe dry with a soft, clean, lint-free cloth. Do not use cleaning rags or material that can leave a residue.
6. To prevent skin burns, allow lamp to cool before handling.
7. To avoid breakage, mounting of the lamp must be free of mechanical stress during installation and during operation by allowing for thermal expansion along its axis. For this reason, XBO lamps should be fixed at one end only and the electrical connection on the other end must be flexible enough to avoid stressing the lamp.
8. XBO lamps should not be subjected to force/stress during installation.
9. Handle lamp only with protective safety cover in place. When installing lamp, remove safety cover only AFTER fully securing lamp in lamphouse/fixture and immediately preceding the replacement of equipment covers or closing of lamphouse door.
10. Replace all fixture covers and shields after replacing lamp to prevent eye damage, other personal injury, and/or property damage.
11. Use only in instruments/equipment specifying this lamp type.
12. Make sure lamp is properly installed into socket/connector to obtain good electrical and thermal contact and avoid damaging lamp and/or socket/connector. Electrical connections should be free from dirt and corrosion.
13. Socket/connector condition may affect lamp life. Replace socket/connector or lamp if deterioration (pitting, scorching, corrosion, etc.) of either is observed.
14. All XBO lamps are designed for DC operation. Make sure that the polarity is correct before turning power on. Incorrect polarity can destroy the lamp in a matter of seconds. Operate with compatible power supply and fixture only.
15. For best performance, operate this XBO lamp at rated current. Note: some low wattage XBO lamps may not be operated above their specified rated wattage. See catalog for details.
16. For those XBO lamps that have a current control range, the current may be increased to its maximum value to compensate for loss of light over the life of the lamp. Operating the lamp at minimum current does not prolong the life of the lamp. The DC current may only be varied within specified control limits for the selected type. (See catalog for these limits for your specific lamp type.)

**XBO® HIGH PRESSURE XENON LAMPS (continued)**

17. When installing bare lamps that have an included flat washer, slip the washer over the threaded pin on the cathode (- negative) side. Removal of this flat washer (after half the average life) will allow a rotation of the lamp by 180° resulting in better output maintenance over life for horizontally operated lamps. This should be done only if darkening is evident in the upper part of the bulb. In instances where bare lamp cathode bases are provided with two metal pins, they may be engaged with the two slots on the protective cover to screw the cathode end of the lamp into its socket.

**LAMP REMOVAL:**

1. Turn off power to the lamp and allow it to cool (forced or convection) for a minimum of 15 minutes prior to shutting main fixture power and opening fixture. Do not remove lamp until it has cooled. After the lamp has cooled, place the protective cover around it and reverse the procedure described above. See special handling instructions for using government-approved safety equipment with high-pressure lamps.
2. Lamp should be placed in the original OSRAM SYLVANIA packaging for temporary storage until disposal and/or transportation to a disposal location. See "Lamp Disposal" section below for transportation and spent lamp disposal information.

**OPERATING POSITION:**

1. XBO bare lamps are designed to operate vertically. Of those, some (having an "H" in their designation) may also be operated in the horizontal position as well. For vertically operated lamps, the anode (+ positive) electrode must be on the top. See catalog for operating position and permissible deviation for your specific type.
2. Some horizontally operated lamps require magnetic arc stabilization. Check the catalog for your specific lamp type.
3. XBO reflector lamps are designed to operate with lamp/reflector axis within 15° of the horizontal position.

**LAMP COOLING:**

1. Discoloration, surface pitting, and/or corrosion of the lamp indicates a thermal overload. Components exhibiting these conditions must be cleaned or replaced.
2. If forced-air cooling is used, care must be taken to direct airflow at the lamp bases only. Striking the lamp elsewhere with the airflow will result in poor lamp performance or premature failure.
3. To prevent premature failure, the following cooling instructions must be followed:  
**Bare lamps** - Bases must be kept below 230°C (445°F) during operation. If convection cooling is insufficient and additional cooling is required, forced air-cooling may be used. If forced air is used, care must be taken to direct airflow at bases only, since striking elsewhere on the lamp with the airflow will result in poor lamp performance or premature failure. See catalog for your specific lamp type to learn whether forced air-cooling is required.  
**Reflector lamps** - To avoid damaging the reflector coating, do not allow the outer reflector surface to exceed the maximum temperature of 250°C (480°F). [Optimum temperature: 175-200°C (345-390°F)] To prevent premature failure, the lamp ends must not exceed the maximum temperature of 350°C (660°F). [Optimum temperature: 200-250°C (385-480°F)] Forced air-cooling is therefore required and the air flow must be directed perpendicular to the lamp/reflector axis, through the slots in the openings of both ceramics. See catalog for diagram.

**OZONE GENERATION:**

An electrical discharge in xenon gas generates radiant energy ranging from approximately 140 nm in the UV region to far into the infrared region. Xenon lamps are made of quartz glass. The quartz glass allows for the transmission of short UV wavelengths starting from approximately 140 nm, depending on the quartz type. Ozone gas (O<sub>3</sub>) is generated by the conversion of oxygen (O<sub>2</sub>) in the air by UV energy in the range of approximately 110-200 nm. Ozone is extremely toxic and will cause serious health problems if inhaled in excess of allowable limits over a prolonged period of time. For more information on allowable limits, please refer to the ACGIH (American Conference of Governmental Industrial Hygienists) publication, "TLVs and BEIs" (Threshold Limit Values and Biological Exposure Indices). Ozone production can be suppressed in xenon discharge lamps by adding materials to the quartz glass that block short-wave UV transmission.

**QUARTZ GLASS DESIGN OPTIONS:**

OSRAM XBO® xenon lamps are offered in three quartz glass designs. They are:

1. **OSRAM XBO W/4:** These lamps are fabricated from synthetic Suprasil quartz glass. Suprasil quartz is low in impurities and provides for maximum short-wave UV transmission and consequently allows for the production of ozone. These lamps should always be used with external ventilation with no possible direct exposure to humans. Under no circumstances may the applicable maximum allowable workplace concentration of ozone be exceeded for any OSRAM xenon XBO lamps.
2. **OSRAM XBO:** These lamps use standard quartz glass and will also emit UV radiation that produces ozone. These lamps, like the W/4 types, must always be externally ventilated. With these types of lamps, health risks must always be minimized by suitably extracting the air from the lamp housing and externally venting it.
3. **OSRAM XBO OFR:** These lamps are designated "Ozone-Free" and are characterized by the letters "OFR" in the order description. OSRAM XBO OFR type lamps have their quartz glass transparently coated to effectively suppress radiation below approximately 250 nm, resulting in the elimination of ozone production during operation.

**LAMP DISPOSAL:**

1. There is a risk that a lamp could rupture because of its high internal pressure (both hot and at room temperature). A lamp rupture could result in personal injury or property damage from flying fragments of glass and/or metal. Therefore, spent (end-of-life) lamps should ALWAYS be stored in the protective covers and packaging in which they originally came, and ultimately depressurized before release for disposal. The following is one example of a depressurizing method for XBO lamps prior to disposal, but it may not be the most suitable or appropriate method depending on the circumstance:
  - The operator must wear government-approved (OSHA-approved in the U.S.A.) safety glasses, facemask (with neck protector), chest protector, and gauntlets during this entire procedure.
  - With protective lamp covers in place, place lamps<sup>1</sup> into steel drum<sup>2</sup> and lock down cover with bolt ring and bolt.
  - Drop drum onto solid surface (concrete floor) from at least five feet. Increase height as needed to ensure all lamps are depressurized.
  - Wait for dust to settle (about 5 minutes) before opening drum. Loosen bolt and allow gas to escape before complete removal of cover.
    - <sup>1</sup> The lamps should not exceed the half-full point in the drums. Adjust the maximum number of lamps accordingly.
    - <sup>2</sup> 8, 20, or 30-gallon drums, depending on quantity of lamps to be de-pressurized, are available. Drums of 20-gauge steel are recommended and are available from many safety supply companies.
2. Disposal of spent lamps must be in accordance with applicable federal, state/provincial, and local regulations. State laws differ in their disposal requirements.
3. Lamp users in North America may obtain specific state or province information concerning disposal regulations, toll free, by calling 1-866-666-6850.
4. OSRAM SYLVANIA Products Inc. cannot advise lamp users as to general or specific disposal regulations for federal, state/provincial, and/or local municipalities.

### HBO® HIGH PRESSURE MERCURY LAMPS

#### WARNING:

In accordance with ANSI/IESNA Standard RP-27, this HBO bulb is a Risk Group 3 product.

*Read and understand this warning before using this bulb!*

#### RUPTURE & RADIATION (UV- VISIBLE) HAZARD:

1. The discharge vessel of HBO lamps is constructed of quartz glass that is filled with a quantity of mercury and either Argon or Xenon gas. Most HBO lamps are not at positive pressure when cold (not operating, at room temperature). However, there are several HBO lamps that DO have a positive internal pressure of upto approximately 8 bar (or approximately 120 psi) in the cold (room temperature) state. The printing of the following bold warning statement on individual packages identifies them as positive-pressure lamps.

#### WARNING

**RISK OF LAMP RUPTURING. TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE, ALWAYS WEAR PROTECTIVE CLOTHING WHEN HANDLING THESE LAMPS. Never handle these lamps unless government-approved (OSHA-approved in the U.S.A.) safety glasses, facemask (with neck protector), chest protector, and gauntlets are worn.**

These positive-pressure lamps may unexpectedly rupture resulting in the discharge of quartz and/or metal fragments as well as exposing the surrounding area to mercury. In the event of such a rupture, there is a risk of personal injury or property damage. Therefore these positive-pressure lamps should be handled in accordance with these safety instructions.

2. All HBO lamps have high internal pressures (400 - 1100 psi or 30 to 75 bar) during operation and may unexpectedly rupture resulting in the discharge of hot fragments (approximately 800°C / 1472°F) of quartz and/or metal particles, as well as the release of mercury/mercury vapor. In the event of such a rupture, there is a risk of personal injury, burns, and fire.
3. All HBO lamps generate intense ultraviolet (UV) and visible radiation during operation. This radiation can cause permanent damage to the eyes (including blindness) and serious injury to the skin (including burns and blistering). To avoid eye damage, other personal injury, and/or property damage, the lamp **MUST** be operated in a suitable fixture.
4. A suitable fixture is one that will prevent the arc from being viewed directly while operating, and in the event of a lamp rupture, will prevent hot (up to 800°C / 1472°F), flying fragments of quartz and/or metal from escaping into the area.
5. Fixtures for lamps that produce ozone during operation should be ventilated and filtered to the outside for ozone removal.
6. To minimize the risk of a lamp rupture, replace the lamp at or before the end of rated life (see OSRAM SYLVANIA product catalog for rated life) or when the lamp shows signs of blackening.

#### BROKEN LAMPS (MERCURY VAPOR RELEASE AND DISPOSAL):

1. In the event of a lamp rupturing during operation, all personnel should leave the area immediately to avoid the inhalation of mercury vapor. The area should then be thoroughly ventilated for a minimum of 30 minutes or until the mercury vapor in the area is below the ACGIH TLV (American Conference of Governmental Industrial Hygienists Threshold Limit Value). Inhaling vapor or small particles of mercury or its compounds can be harmful to lungs, kidneys, and nervous system. Penetration of the skin or ingestion can also be harmful.
2. To avoid mercury vapor getting into air conditioning systems, instruments/equipment using lamps of 350 watts or greater should be connected to separate air exhaust systems through mercury vapor-absorbing filters. When the lamp housing has cooled, ***mercury residue may be picked up with special mercury adsorptive agents or a mercury vacuum cleaner (available from laboratory safety equipment suppliers) and disposed of in accordance with local, state, and federal regulations.*** There should be no direct skin contact with and/or inhalation of mercury residues that may be residing in lamp housing, optics or lamp parts. If a cold (room temperature) lamp is broken, proceed with clean-up and disposal as indicated above (in the ***bold, italicized statement***).

#### GENERAL SAFETY & INSTALLATION TIPS

##### INSTALLATION:

1. Do not use if lamp is scratched, cracked, or damaged in any way.
2. To prevent electric shock, shut off main power to the fixture before attempting to service or replace lamp.
3. To avoid damaging the quartz and causing premature lamp failure, do not handle lamp with bare hands.
4. Only handle lamp with suitable, clean safety gloves. See special, bolded warning for using government-approved safety equipment when handling positive-pressure lamps.
5. If the quartz parts are inadvertently touched, clean fingerprints off with denatured alcohol and wipe dry with a soft, clean, lint-free cloth. Do not use cleaning rags or material that can leave a residue.
6. To prevent skin burns, allow lamp to cool before handling.
7. To avoid breakage, mounting of the lamp must be free of mechanical stress during installation and during operation by allowing for thermal expansion along its axis. For this reason, HBO lamps should be fixed at one end only and the electrical connection on the other end must be flexible enough to avoid stressing the lamp.
8. HBO lamps should not be subjected to force/stress during installation.
9. Replace all fixture covers and shields after replacing lamp to prevent eye damage, other personal injury, or property damage.
10. Use only in instruments/equipment specifying this light source.
11. Make sure lamp is properly installed into socket/connector to obtain good electrical and thermal contact and avoid damaging lamp and/or socket/connector. Electrical connections should be free from dirt and corrosion.
12. Socket/connector condition may affect lamp life. Replace socket/connector or lamp if deterioration (pitting, scorching, corrosion, etc.) of either is observed.

##### OPERATION:

1. Some HBO lamps are designed for operation on only AC or only DC while some are designed for operation on either AC or DC.
2. Note: all HBO lamps with power consumption of 350 W and higher are only suited for DC operation. Make sure that the polarity is correct before turning power on. Incorrect polarity can destroy the lamp in a matter of seconds.
3. Operate with compatible power supply and fixture only.
4. To ensure that AC-suited lamps operate at correct power during AC operation, connections on the ballast/choke in the power supply should be made to the voltage taps that are marked the same as the marking on the lamp base (L1 or L2). Some power supplies are equipped with a switch (or taps) for selecting L1 or L2. For correct and safe lamp operation, use only those ballasts/power supplies that have been approved or meet minimum requirements as specified by OSRAM. See your OSRAM dealer for list of approved equipment.
5. HBO lamps need 5 to 20 minutes (depending on lamp type and cooling conditions) before they reach their operating temperatures. To ensure proper ignition on subsequent start-up, lamps should not be switched off during the warm-up period.
6. The average service life of high wattage HBO lamps (≥350 watts) is determined by their ON/OFF duty cycle. These lamps have been designed for a limited amount of ignitions only (less than 10). Lamp performance is reduced with increased duty cycle.



**HBO® HIGH PRESSURE MERCURY LAMPS (continued)**
**OPERATING POSITION:**

HBO lamps may only be operated in the operating positions described in the OSRAM SYLVANIA product catalog.

Some HBO lamps are designed to operate horizontally (mainly low wattage types in the power range of 50 to 200 W) and others, vertically (all lamp types with power consumption of 350 W and higher). Greater arc stability is obtained in vertically operating lamps when they are operated as close to vertical as possible. See catalog for permissible operating positions and electrode positions.

**OZONE GENERATION:**

During operation, HBO lamps produce a spectrum that ranges from about 150 nm in the ultraviolet region to the infrared region.

If the quartz glass bulb is transparent in the ultraviolet region between 180 and 220 nm, this short-wave radiation will convert a small quantity of atmospheric oxygen ( $O_2$ ) surrounding the lamp into ozone ( $O_3$ ). Moreover, the oxygen molecules will link together with the nitrogen ( $N_2$ ) in the air, creating nitrogen oxides ( $NO_x$ ). (Some believe that the smell attributed to ozone is in actuality from the nitrogen oxides.)

Ozone gas is toxic when inhaled in high concentrations over long periods of time. Ozone levels can be measured and monitored with commercial measuring equipment. Always keep ozone levels below the applicable TLV (threshold limit value).

The production of ozone and nitrogen oxide can be suppressed by using doped quartz glass, which absorbs the ozone-producing ultraviolet radiation. The quartz glass used in high wattage i-line (365nm) enhanced HBO lamps only transmits wavelengths above 250 nm, which provides effective, ozone-free lamps. Please be advised that the OSRAM HBO 4000 W/PL lamp is designed to generate UV wavelengths below 250nm. Consequently, this lamp will generate ozone in operation and should be externally ventilated.

An "ozone smell" (or smell of nitrogen oxide) may be detected shortly after ignition. There are two probable causes for this condition.  $O_3$  and  $NO_x$  production is caused by the (short-duration) radiation of the spark gap used for lamp ignition. Or, the cold condition of the quartz glass bulb has slightly shifted its UV-absorption characteristics thus permitting a small amount of radiation in the very short-wave ultraviolet range to be emitted by the bulb. Typically, after the lamp has run up to its operating temperature range, virtually no ozone is produced by the lamp, as a rule, due to the quartz glass absorption and the self-absorption of the plasma.

**LAMP COOLING:**

1. To prevent premature failure, lamp base temperatures must be kept below 230°C (446°F) for 50 to 350 watt lamps and below 200°C (392°F) for all lamps with power consumption of more than 350 watts.
2. Discoloration, surface pitting, and/or corrosion of the lamp connections indicates a thermal overload. Components exhibiting these conditions must be cleaned or replaced.
3. If convection cooling is insufficient and additional cooling is required, cooling fins may be applied to the bases and/or forced air may be used.
4. If forced air is used, care must be taken to direct airflow at the bases only. Striking elsewhere on the lamp with the airflow will result in poor lamp performance or premature failure.

**LAMP REMOVAL:**

Turn off power to the lamp and allow lamp to cool (forced or convection) for a minimum of 30 minutes prior to shutting main fixture power and opening fixture. Do not remove lamp until it has cooled. See special, bolded warning for using government-approved safety equipment when handling positive-pressure lamps.

Lamps should be placed in their original OSRAM SYLVANIA packaging for temporary storage until disposal and/or transportation to a disposal location. See "Lamp Transportation" and "Lamp Disposal" sections below for relevant information.

**LAMP TRANSPORTATION:**

1. All HBO lamps should be transported ONLY in their original packaging.
2. Transportation in non-original packaging can damage the lamp and void warranty.
3. U.S. Federal regulations require mercury-containing lamps to be shipped ONLY in DOT-compliant packaging. Original OSRAM packaging is DOT-compliant.
4. When transporting positive-pressure lamps, the bolded warning found in the "Rupture & Radiation Hazard" section MUST be placed on outside surface of the shipping carton and the warning instructions must also be placed inside the shipping packaging.

**MERCURY FILL OF HBO LAMPS:**

Mercury is referred to by its chemical symbol, Hg, which is derived from the Greek and Latin "hydrargyrum," a silvery shiny liquid metal at room temperature. In humid air it is covered with a gray oxide skin. Of all metals it has the highest vapor pressure which increases exponentially with rising temperatures. For this reason, mercury is volatile at room temperature. The colorless and odorless vapors produced are poisonous and heavier than air.

The inhalation (respiration) of mercury or mercury compounds as vapor or dust will lead to the damage of lungs, kidneys, and the nervous system. Apart from inhalation, mercury can be transmitted through the skin (penetration) or through the gastro-intestinal tract (ingestion), which is also harmful.

The ACGIH threshold limit values (TLVs) are merely guidelines to assist in the control of health hazards. The ACGIH says that the TLVs refer to airborne concentrations of substances and represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse health effects. Therefore, the TLV for mercury should never be exceeded.

Analytical detection of mercury vapor is possible by means of gas/vapor detector tubes (rough measurement) or air-monitors that absorb mercury vapor.

OSRAM HBO® lamps have the following mercury contents:

| Power level        | Maximum Mercury content (mg) |
|--------------------|------------------------------|
| 50 - 200 W         | 110                          |
| 350 W              | 300                          |
| 500 W              | 500                          |
| 1,000 W            | 600                          |
| 1,500 W            | 800                          |
| 2,000 - 2,500 W    | 5,000                        |
| 3,500 W and higher | 12,000                       |

## HBO® HIGH PRESSURE MERCURY LAMPS (continued)

### PROPERTIES OF MERCURY:

- Chemical symbol: Hg
- Atomic number: 80
- Molecular Weight: 200.59
- Density: 13.6 g/cm<sup>3</sup> @ 20°C / 68°F
- Melting Point: -39°C / -38.2°F
- Boiling Point: 357°C / 674°F
- Vapor pressure:
  - 160 Pa @ 20°C / 68°F
  - 370 Pa @ 30°C / 86°F
  - 823 Pa @ 40°C / 104°F
- Concentration in air:
  - 13.6 mg/m<sup>3</sup> @ 20°C / 68°F
  - 29.6 mg/m<sup>3</sup> @ 30°C / 86°F
  - 62.7 mg/m<sup>3</sup> @ 40°C / 104°F
- CAS Registry Number: 7439-97-6
- RCRA waste number: U151
- Other Names: Hydrargyrum, Colloidal mercury, Kwik, Mercure, Mercurio, Metallic mercury, Quecksilber, Quick silver, Liquid Silver

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[www.interlight.biz](http://www.interlight.biz)

### LAMP DISPOSAL:

1. Disposal of spent lamps must be in accordance with applicable federal, state/provincial, and local regulations. State laws differ in their disposal requirements for lamps containing mercury.
2. Lamp users in North America may obtain specific state or province information concerning disposal regulations, toll free, by calling 1-866-666-6850.



3. OSRAM SYLVANIA Products Inc. cannot advise lamp users as to general or specific disposal regulations for federal, state/provincial, and/or local municipalities.

### Special disposal note for cold, positive-pressure lamps (see "RUPTURE & RADIATION HAZARD" section for applicable lamps)

There is a risk that these lamps could rupture because of their high internal pressure when hot (during operation) and when cold (at room temperature when not operating). A lamp rupture could result in personal injury or property damage from flying fragments of quartz and/or metal. Therefore, spent (end-of-life) lamps should ALWAYS be stored in the packaging in which they originally came.

## Lamp Disposal Labeling

The following information appears on the packages and/or stuffer of mercury-containing Photo-Optic lamps. For more information on lamp disposal labeling, see the inside back cover of this catalog.



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## OSRAM PLANON® New Fluorescent Technology

The OSRAM PLANON® is a two-dimensional, mercury-free light source based on the operating principle of excimer discharge.



### OSRAM technology sets standards Mercury-free light tile

The luminous body of OSRAM PLANON® can be compared with a tile. Thanks to its specific shape and unique uniform light output, PLANON® opens new construction and application possibilities for the lighting industry.

#### Unique advantages

The new mercury-free discharge light source OSRAM PLANON® has a number of unique product characteristics:

##### Unique lighting power

- wide viewing and illumination angle
- uniform high luminance from center to edge
- diagonal lengths from 10.4" to 21.3"
- ultra flat at <10mm (0.4")

##### Extremely long lamp life, up to 100,000 hours

- absence of failure-prone electrodes
- no bulb darkening

##### Extremely thin ≤10mm

##### Mercury-free

- luminous flux not related to temperature
  - same light output from -30°C to +85°C ambients
- instant light with high luminance

##### Lamp and ballast available as system



#### Applications

- LCD backlighting
- Architectural effects
- Digital imaging
- Indoors or outdoors
- Signage backlighting
- Film and photography lighting
- Information displays
- Task lighting

## OSRAM OPTO SEMICONDUCTORS

### THE LEADER IN LED GENERAL LIGHTING SOLUTIONS

Innovative light-emitting diodes are compound semiconductors that convert electric current directly to light. Just a few millimeters in size, LEDs offer distinct advantages through advanced technology, making them a real alternative to conventional lamps in many applications.

#### TECHNOLOGICAL ADVANTAGES

- Low power consumption and heat generation
- Extremely long life
- Negligible early failures
- High color efficiency
- Small dimensions
- High resistance to shock and vibration
- Directed radiation
- No IR/UV radiation -Optimized power supplies and controls

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#### USER BENEFITS

- Creative design possibilities for innovative light solutions through a variety of LED colors, compactness and flexible modularization
- Economically attractive because of low power consumption, long life and minimal maintenance
- Maximized safety due to excellent reliability, even in difficult operating conditions

#### CREATIVE LIGHT SOLUTIONS FOR ALL KINDS OF APPLICATIONS

LED modules and power supplies from OSRAM Opto Semiconductors are the ideal basis for creative design-ins and new light solutions in a wide range of applications:

- Colored light of your choice - LEDs emit yellow, orange, red, blue, green and white light, 3 color multi - LED (RGB) option are available
- Colored light with plexiglass optics for highly decorative effects
- Can be adapted to complex structures - e.g. backlighting of letters - through compact, flexible modules
- Extremely low-profile light solutions
- Reliable orientation lighting that is easy to install and integrates perfectly in the existing architecture with minimal structural change
- Economical operation through low power consumption
- Reliable outdoor operation through mechanical ruggedness in a wide range of operating temperatures
- Ideal for powering by solar energy through minimum consumption and low forward voltage

#### VERTICALLY INTEGRATED

OSRAM Opto Semiconductors offers the core competencies needed for LED lamp module and power supply production - from discrete components through electrical, thermal and optical design to complex modules and electronic controls.

#### CONNECTORS

Please call 1-800-LIGHTBULB for assistance.

#### COMPLETE SYSTEMS ENGINEERING

Our solutions come complete with matching power supplies, dimming and RGB controls. Dimmers are compatible with industry standard protocols such as 0-10 V and DMX 512 (with DMX to 0-10V converters).

#### COMPLETE LIGHT SOURCE SOLUTION

Combined with OSRAM SYLVANIA, OSRAM Opto Semiconductors offers the full spectrum of lighting solutions for any project.

#### Standards and regulations

In the case of LEDs and LED modules, there are regulations for protection of the human eye against excessive doses of radiation. These are based on the tolerances issued by the ICNRP. OSRAM Opto Semiconductors can submit certification by an accredited test laboratory for all standard modules. LED lamp modules and power supplies by OSRAM are UL recognized and listed in the Sign Accessories Manual (SAM).

The stipulations of the low voltage directive are not applicable to LED modules because of their operating voltage of 10 or 24 V DC. LED modules do not produce any interference in the context of EMC.

The major directives for eye safety:

1. IEC 60825-1 A2: Safety of Laser Devices
2. ANSI IESNA RP - 27.1 to 27.3
3. ACGIH (American Conference of Governmental Industrial Hygienists)
4. CIE TC 6-47 Photobiological Safety of Lamps and LampSystems



## TRULY ILLUMINATING: LED MODULES FROM OSRAM OS

LED modules from OSRAM Opto Semiconductors consist of a certain number of LEDs with integrated passive or active current regulation. The single LEDs are mounted on either rigid or flexible printed circuit boards. Secondary optical elements such as lenses, reflectors and surface light guides can be added for enhanced performance.

### POSSIBILITIES TODAY AND TOMORROW

OSRAM Opto Semiconductors produces a high-performance selection of fully contained LED modules - power-saving and cost-saving - for a wide range of conventional and emerging uses in general lighting.

### THREE FAMILIES - VERSATILE AND FLEXIBLE

LED modules without a lens system

- LINEARlight (Rigid or flexible; Monochromatic or integrated RGB)
- BACKlight
- COINlight

LED modules with a lens system

- EFFECTlight

LED modules with light guides

- MARKERlight (rectangular, square, round)
- LEDtag

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### LED MODULES ACCESSORIES

- Optics, dimming

### ELECTRICAL DESIGN OF MODULES

In electrical terms, LEDs are semiconductor diodes. Their major electrical characteristics are:

- Forward voltage  $V_f$
- Forward current  $I_f$

To ensure long life, the specified forward current should not be exceeded. Modules from OSRAM OS exhibit the following features:

- Series connection of LEDs
- Combined with passive and active current limiting
- Current control device (BCR) are built in for all the OSRAM LED lamp modules
- Operation on 10 V DC and 24 V DC
- Easy operation with OPTOTRONIC® power supplies

## THE RIGHT CONNECTION - OSRAM LED SYSTEMS FOR LIGHTING

OSRAM Opto Semiconductors offers you more than first-class LEDs and LED modules. You no longer have to spend your time looking for any extra components you need. Instead you can focus on what is essential for you: your product and your business. In addition to LED modules we deliver optimized power supplies, dimming and RGB controls, and other accessories (pg. 264 & 265). For the latest information call 1-800-LIGHTBULB.

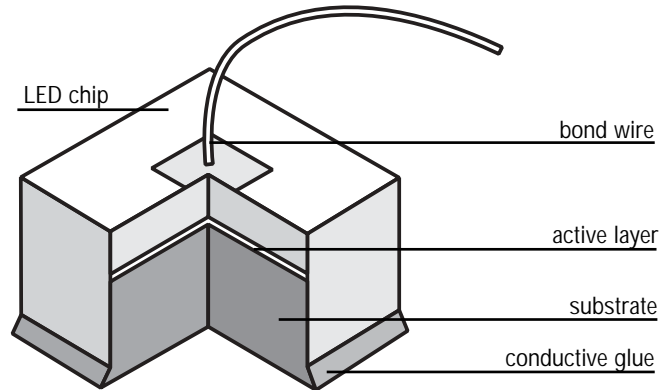
### OPTOTRONIC POWER SUPPLY

- Electronically stabilized, load-insensitive DC output voltage
- Shortcircuit-proof and overload protected
- Designed and built to all applicable standards
- For power supply and packages, please refer to page 265
- Long Life
- Low ripple voltage

## OSRAM OPTO SEMICONDUCTORS: LED TECHNOLOGY IS THE FUTURE

### HOW DOES AN LED WORK?

A light-emitting diode consists of several layers of semiconductor material. When the diode is forward biased, light is generated in a thin layer, the so-called active layer. Unlike incandescent lamps, which radiate a continuous spectrum, an LED emits an almost monochromatic light of a particular color. The color of the light depends on the material used. Two material systems - AlInGaP and InGaN - are used for creating high brightness LEDs in all colors from red to blue and also in white using phosphors. The efficiency of LEDs has very much improved in the last few years, and has already reached levels of 30lm/W and more - depending on the color. This is the result of high-quality production and advanced technologies.



### LED PACKAGES

The typical size of an LED is approximately a few hundred micrometers. The semiconductor is mounted in a package for easy electrical contact and environmental protection. There are two basic types of packages:

#### •THT (through-hole technology)

*This kind of package is soldered "through holes" to the circuit board. The most common type is the radial 5 mm package. The LED chip is seated in the reflector, which is connected to the cathode lead. A bond wire establishes electrical contact to the anode. The light is emitted by a lens integrated into the package. Different radiation characteristics are produced as a function of chip-to-lens spacing and the shape of the lens.*



#### •SMT (surface-mount technology)

*This modern design consists of a plastic package that also serves as the reflector. The LED chip is seated in the cavity. This cavity is filled with epoxy resin to improve light output and protect the chip against environmental influences. SMT components can be assembled faster and with better quality than THT components.*



### ELECTRICAL DATA

The highest luminosity is produced with a DC voltage source. The necessary forward voltage depends on the color of the LED light, varying between 2 and 4 V at forward currents up to 70mA.

### TEMPERATURE RESPONSE

The optical output power drops as temperature increases. Temperature dependence is more significant in yellow LEDs than in green ones. This drop in power, as a function of temperature, can be reversed and has nothing to do with degradation. The maximum operating temperature for LEDs is normally 100 °C, and this should not be exceeded.

### LIFETIME AND DEGRADATION

Just like a conventional source of light, the intensity of LED light gradually diminishes in the course of continuous operation. When an LED produces 50% of its original luminous efficiency, it has, by definition, reached the end of its life.

Under reasonable operating conditions LEDs can last up to 100,000 hours.

### WHITE LIGHT LEDs

To generate white light, the radiation of a blue diode is used to stimulate a secondary (fluorescent) emission from a properly chosen phosphor. By setting the appropriate concentration of luminescent material, the blue primary light from the diode combined with the yellow light emitted by the phosphor creates a spectral wavelength distribution that is perceived as white by the human eye. The color rendering index thus achieved is approximately 80.



The following item was accepted into the 2003 IESNA Progress Report which recognizes innovative products introduced to the industry during that year.

LINEARlight Color Mix

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## HOW TO READ PRODUCT INFORMATION - LED lamp modules

| Product Number                    | 70011                    | 70017                  | 70010             | 70027               |
|-----------------------------------|--------------------------|------------------------|-------------------|---------------------|
| Ordering Abbreviation             | BACKLIGHT/615/OS/LM03A/A | FXLIGHT/505/OS/WL01A/V | LINEAR/OS/LM01A/W | ML/82X33/OS/ML01B/B |
| Operating Voltage (V)             | 10                       | 24                     | 10                | 10                  |
| Power (W)                         | 4                        | 1.3                    | 3.2               | 1.2                 |
| Color                             | Amber Red                | Verde                  | White             | Blue                |
| Wavelength (nm) Color Coordinates | 617                      | 503                    |                   | 470                 |
| LEDs/Module                       | 32                       | 10                     | 32                | 12                  |
| Operating Temperature (°C)        | -30 to +65               | -30 to +65             | -30 to +65        | -30 to +65          |
| Dimensions (mm)                   | 559 x 30 x 6             | 70 x 28 x 34.5         | 448 x 10 x 3.5    | 112.3 x 48 x 7      |
| Inter-LED Spacing (mm)            | 15                       |                        | 14                |                     |
| Luminous Flux (lm)                | 54                       |                        | 29                |                     |
| Luminous Intensity (cd)           | 0.535                    | 2000                   | 0.3               |                     |
| Viewing Angle (°)                 | 120                      | 4                      | 120               |                     |
| Maximum Board Spacing (mm)        |                          |                        |                   |                     |
| Luminous Area (mm <sup>2</sup> )  |                          |                        |                   | 79.5 x 3            |

|  |   |
|--|---|
| <b>Operating Voltage (V)</b>                 | DC voltage applied to the entire module.  |
| <b>Wavelength (nm) / Color Coordinates</b>   | The center wavelength of the light emitted by the LED expressed in nm OR the CIE X and Y color coordinates for white light sources.   |
| <b>Inter-LED Spacing (mm)</b>                | Space between individual LEDs mounted on the module.  |
| <b>Luminance (mlm) or (cd/m<sup>2</sup>)</b> | When reported in mlm, this is the total amount of light leaving the module, also known as luminous flux. When reported in cd/m <sup>2</sup> , this is the brightness of the LED module when viewing it. The cd/m <sup>2</sup> value applies only to MARKERlight products. |
| <b>Luminous Intensity (cd)</b>               | Intensity of the light shining out from the module. This value is especially important on EFFECTlights.   |
| <b>Viewing Angle (°)</b>                     | 2 times the angle between the peak intensity at the center of the beam and the 50% intensity direction.   |
| <b>Maximum Board Spacing (mm)</b>            | Applies only to BACKlights. This is the maximum separation between two consecutive boards in a BACKlight module.  |
| <b>Luminous Area (mm<sup>2</sup>)</b>        | Applies only to MARKERlights. This is the area that actually appears lit when looking towards the module.   |

## Weight & Measurement

For weight and measurement information, please visit [www.sylvania.com](http://www.sylvania.com).

## OPTOTRONIC® LED Power Supplies

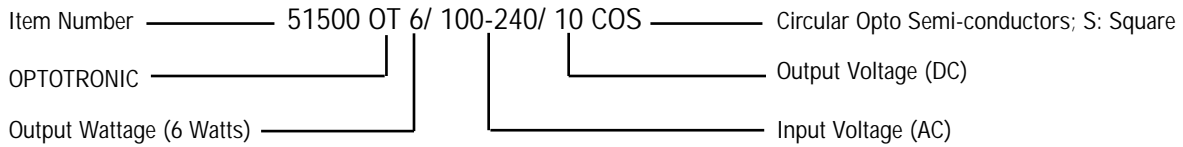
OSRAM OPTOTRONIC power supplies are compact and electronically stabilized. The wide range of input voltage from 100 to 240 V<sub>AC</sub> enables worldwide use on single-phase AC power lines. These supplies are available in 10 V<sub>DC</sub> and 24 V<sub>DC</sub> outputs. The OPTOTRONIC power supplies are protected against open circuit, short circuit, and overload and overheating. They are UL recognized and FCC compliant.

### KEY SYSTEM FEATURE

- New, small enclosure size (OT6, OT20, OT25 fit into small junction box)
- Lightweight, low profile
- -20°C through 50°C operation
- Wide input voltage range
- Isolated output
- UL Class 2 output
- Weather resistant housing
- Long life
- Short circuit and overload protection
- Low power supply losses
- Remote mounting possible
- OT50 model rated for outdoor, damp location

### OT RGB controls are ideal for Colormixing or Color sequencing applications

- Pulse width modulation (PWM) dimming
- Dimming range of 0-100% with OTDIM & OT RGB 3CH DIM



| Item Number | Description              | For LED Lamp Modules Family   |
|-------------|--------------------------|---|
| 51500       | <b>OT6/100-240/10COS</b> | LINEARlight, BACKlight, MARKERlight (Rectangular), and LINEARlight FLEX SIDELED                                 |
| 51505       | <b>OT25/120/10</b>       | LINEARlight, BACKlight, MARKERlight (Rectangular), and LINEARlight FLEX SIDELED                                 |
| 51508       | <b>OT50/120/10</b>       | LINEARlight, BACKlight, MARKERlight (Rectangular), and LINEARlight FLEX SIDELED                                 |
| 51501       | <b>OT6/100-240/24COS</b> | MARKERlight (Square & Circular), EFFECTlight, COINlight TOPLED, COINlight SIDELED and LINEARlight - FLEX TOPLED |
|             |                          | LINEARlight Colormix RGB and LINEARlight Flex TOP Colormix RGB  |
| 51512       | <b>OT20/120-240/24S</b>  | MARKERlight (Square & Circular), EFFECTlight, COINlight TOPLED, COINlight SIDELED and LINEARlight - FLEX TOPLED |
|             |                          | LINEARlight Colormix RGB and LINEARlight Flex TOP Colormix RGB  |

### System Life / Warranty

OPTOTRONIC LED Power Supply Products are covered by our LED System Warranty, a comprehensive light source, and power supply system warranty. For additional detail, refer to our latest version of the LED System Warranty bulletin found in the warranty section of this catalog.

## OSRAM LED Lamp Modules Accessories

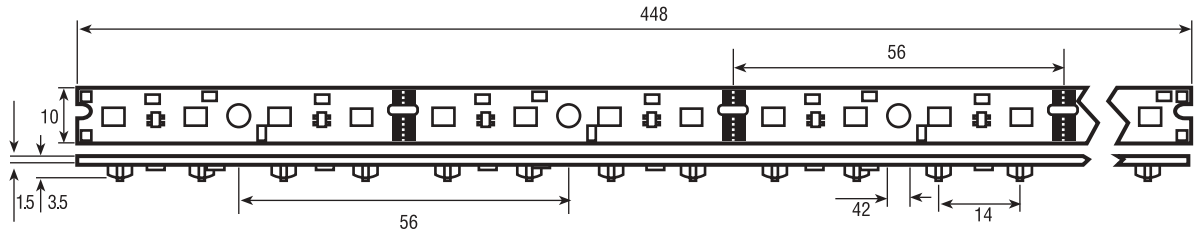
### LINEARlight OPTICS OP4x1-20

LINEARlight Optics is a supplementary optical lens for the LINEARlight module. The optical effect of the optics is a reduction of the viewing angle from 120° to 20° and / or 25° and proportional intensification of the light. The optic provides light intensification and mechanical protection of the LED module. The optic is suitable for all LED colors.

Each module lens optic is 56<sub>mm</sub> long and covers 4 LEDs, which is the smallest divisible unit of LINEARlight. Eight optics are needed to cover the full length of a LINEARlight strip. The guide pin feature ensures precise alignment that can be easily snapped into place.

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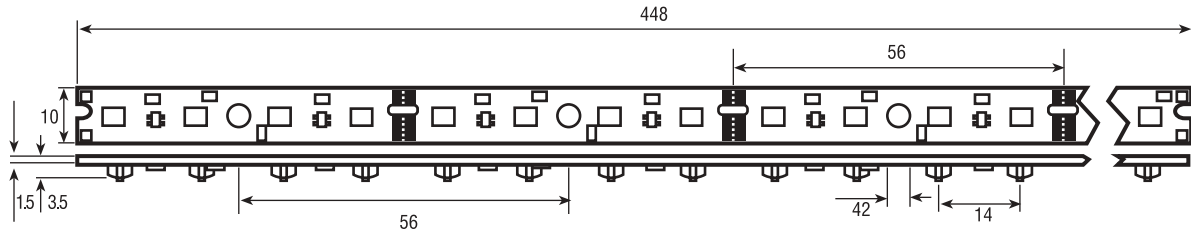


### LINEARLIGHT – RIGID

| Product Number             | 70006                  | 70007                 | 70008                  | 70083               |
|----------------------------|------------------------|-----------------------|------------------------|---------------------|
| Ordering Abbreviation      | LINEAR/587/OS/LM01A/Y1 | LINEAR/615/OS/LM01A/A | LINEAR/525/OS/LM01A/T1 | LINEAR/610/OS/LM01A |
| Operating Voltage (V)      | 10                     | 10                    | 10                     | 10                  |
| Power (W)                  | 4.00                   | 4.00                  | 4.00                   | 4.00                |
| Color                      | Yellow                 | Amber Red             | True Green             | Orange              |
| Wavelength (nm)            | 587                    | 617                   | 525                    | 606                 |
| LEDs/Module                | 32                     | 32                    | 32                     | 32                  |
| Operating Temperature (°C) | -30 to +65             | -30 to +65            | -30 to +65             | -30 to +65          |
| Dimensions (mm)            | 448 X 10 X 3.5         | 448 X 10 X 3.5        | 448 x 10 x 3.5         | 448 X 10 X 3.5      |
| Inter-LED Spacing (mm)     | 14.000                 | 14.000                | 14.000                 | 14.000              |
| Luminous Flux (lm)         | 69                     | 54                    | 36                     | 86                  |
| Luminous Intensity (cd)    | 0.72                   | 0.56                  | 0.38                   | 0.90                |
| Viewing Angle (°)          | 120                    | 120                   | 120                    | 120                 |

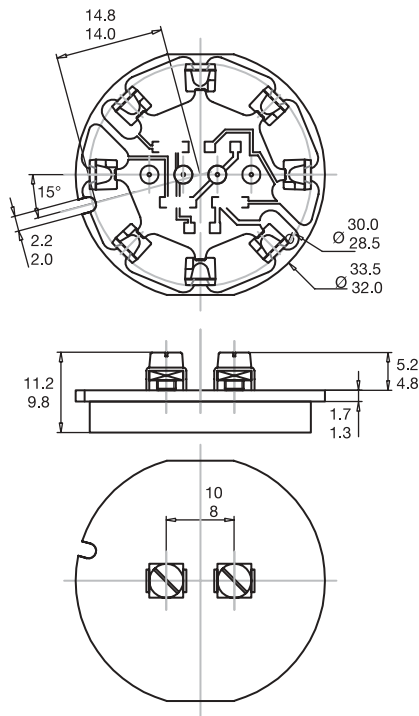
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## LINEARLIGHT – RIGID

| Product Number             | 70009                  | 70010             | 70044                 |
|----------------------------|------------------------|-------------------|-----------------------|
| Ordering Abbreviation      | LINEAR/470/OS/LM01A/B1 | LINEAR/OS/LM01AW1 | LINEAR/633/OS/LM1A/S1 |
| Operating Voltage (V)      | 10                     | 10                | 10                    |
| Power (W)                  | 4.00                   | 3.20              | 4                     |
| Color                      | Blue                   | White             | Super Red             |
| Wavelength (nm)            | 470                    |                   | 633                   |
| Color Temp (K)             |                        | 5400K, 4700K      |                       |
| LEDs/Module                | 32                     | 32                | 32                    |
| Operating Temperature (°C) | -30 to +65             | -30 to +65        | -30 to +65            |
| Dimensions (mm)            | 448 x 10 x 3.5         | 448 X 10 X 3.5    | 448 X 10 X 3.5        |
| Inter-LED Spacing (mm)     | 14.000                 | 14.000            | 14.000                |
| Luminous Flux (lm)         | 9                      | 29                | 54                    |
| Luminous Intensity (cd)    | 0.09                   | 0.30              | 0.56                  |
| Viewing Angle (°)          | 120                    | 120               | 120                   |



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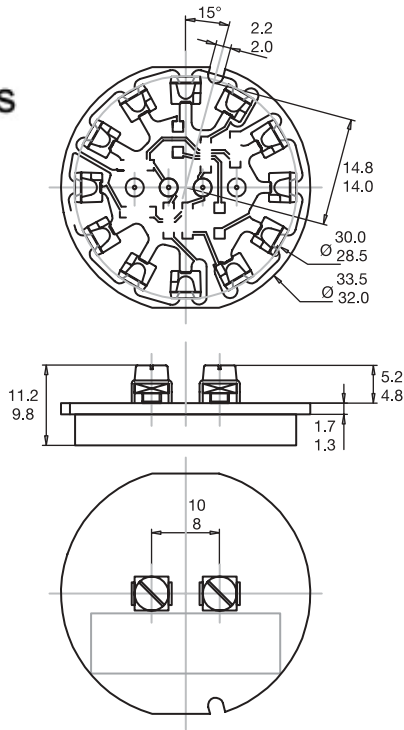
Interlight Specialty Bulbs  
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### COINLIGHT – SIDELED – 8 LEDS

| Product Number              | 70046               | 70047               | 70048               | 70049               | 70050           |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|-----------------|
| Ordering Abbreviation       | COIN/615/OS/CM01B/A | COIN/587/OS/CM01B/Y | COIN/525/OS/CM01B/T | COIN/470/OS/CM01B/B | COIN/OS/CM01B/W |
| Operating Voltage (V)       | 24                  | 24                  | 24                  | 24                  | 24              |
| Power (W)                   | 0.50                | 0.50                | 0.90                | 0.90                | 0.90            |
| Color                       | Amber Red           | Yellow              | True Green          | Blue                | White           |
| Wavelength (nm)             | 615                 | 587                 | 528                 | 470                 | X=0.32; Y=0.31  |
| LEDs/Module                 | 8                   | 8                   | 8                   | 8                   | 8               |
| Operating Temperature (°C)  | -30 to +65          | -30 to +65          | -30 to +65          | -30 to +65          | -30 to +65      |
| Dimensions (mm)             | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11   |
| Inter-LED Spacing (degrees) | 45                  |                     |                     |                     |                 |
| Luminous Flux (lm)          | 3                   | 2                   | 3                   | 1                   | 5               |
| Luminous Intensity (cd)     | 135                 | 0.105               | 0.135               | 0.04                | 0.195           |
| Viewing Angle (°)           | 120                 | 120                 | 120                 | 120                 | 120             |

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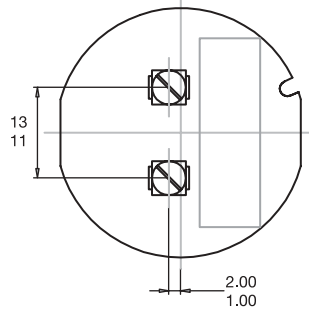
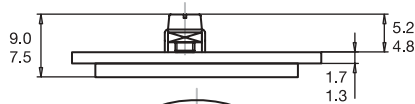
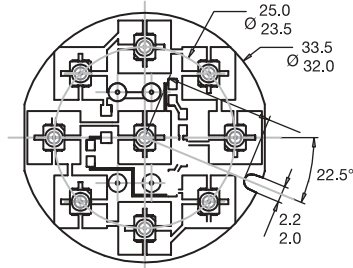
**COINLIGHT – SIDELED – 12 LEDS**

| Product Number             | 70051               | 70052               | 70053               | 70054               | 70055           |
|----------------------------|---------------------|---------------------|---------------------|---------------------|-----------------|
| Ordering Abbreviation      | COIN/587/OS/CM01C/Y | COIN/615/OS/CM01C/A | COIN/525/OS/CM01C/T | COIN/470/OS/CM01C/B | COIN/OS/CM01C/W |
| Operating Voltage (V)      | 24                  | 24                  | 24                  | 24                  | 24              |
| Power (W)                  | 1.50                | 1.50                | 1.30                | 1.30                | 1.30            |
| Color                      | Yellow              | Amber Red           | True Green          | Blue                | White           |
| Wavelength (nm)            | 587                 | 615                 | 525                 | 470                 | X=0.32; Y=0.31  |
| LEDs/Module                | 12                  | 12                  | 12                  | 12                  | 12              |
| Operating Temperature (°C) | -30 to +65          | -30 to +65          | -30 to +65          | -30 to +65          | -30 to +65      |
| Dimensions (mm)            | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11       | 33 X 5.5 X 11   |
| Luminous Flux (lm)         | 3.6                 | 4.3                 | 3.7                 | 1.4                 | 6.5             |
| Luminous Intensity (cd)    | 0.105               | 0.135               | 0.135               | 0.04                | 0.195           |
| Viewing Angle (°)          | 120                 | 120                 | 120                 | 120                 | 120             |



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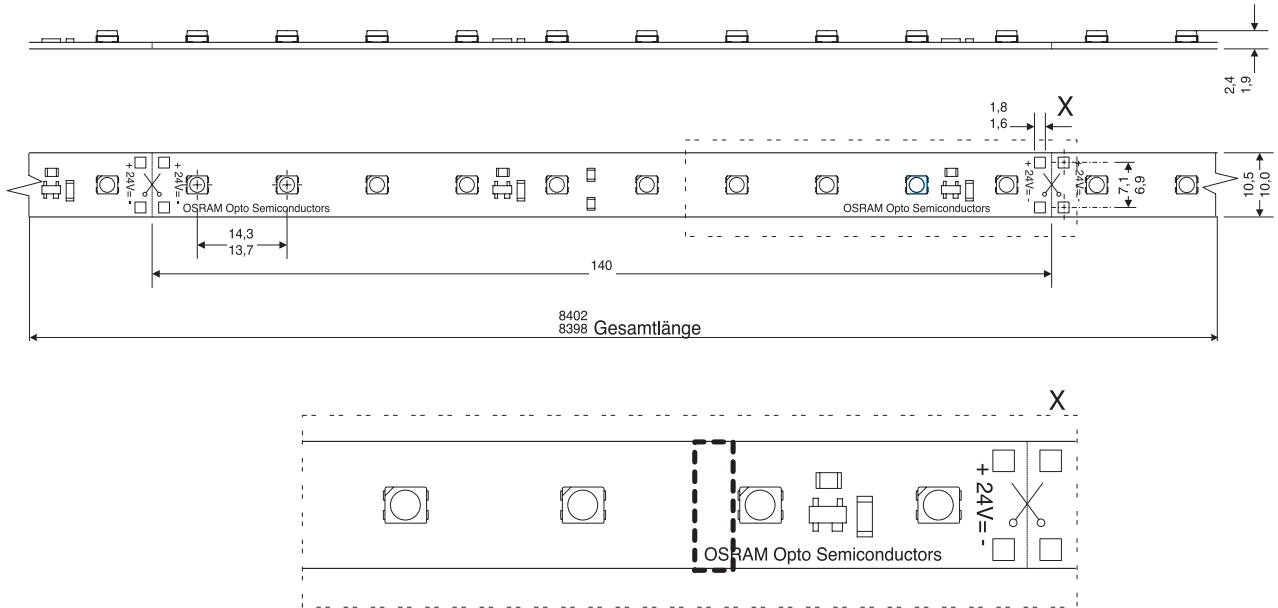


**COINLIGHT – TOPLED**

| Product Number             | 70056            | 70057                | 70058                | 70059                | 70060                |
|----------------------------|------------------|----------------------|----------------------|----------------------|----------------------|
| Ordering Abbreviation      | COIN/OS/CM01E/W1 | COIN/617/OS/CM01E/A1 | COIN/587/OS/CM01E/Y1 | COIN/525/OS/CM01E/T1 | COIN/470/OS/CM01E/B1 |
| Operating Voltage (V)      | 24               | 24                   | 24                   | 24                   | 24                   |
| Power (W)                  | 1.20             | 1.2                  | 1.2                  | 1.20                 | 1.20                 |
| Color                      | White            | Amber Red            | Yellow               | True Green           | Blue                 |
| Wavelength (nm)            | X=0.32; Y=0.31   | 617                  | 587                  | 525                  | 470                  |
| LEDs/Module                | 9                | 9                    | 9                    | 9                    | 9                    |
| Operating Temperature (°C) | -30 to +55       | -30 to +55           | - 30 to +55          | -30 to +55           | -30 to +55           |
| Dimensions (mm)            | 33 X 3.5 X 9     | 33 X 3.5 X 9         | 33 X 3.5 X 9         | 33 X 3.5 X 9         | 33 X 3.5 X 9         |
| Luminous Flux (lm)         | 10               | 24                   | 19                   | 10                   | 3                    |
| Luminous Intensity (cd)    | 0.37             | 0.89                 | 0.70                 | 0.37                 | 0.11                 |
| Viewing Angle (°)          | 120              | 120                  | 120                  | 120                  | 120                  |

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### LINEARLIGHT – FLEXIBLE – TOPLED

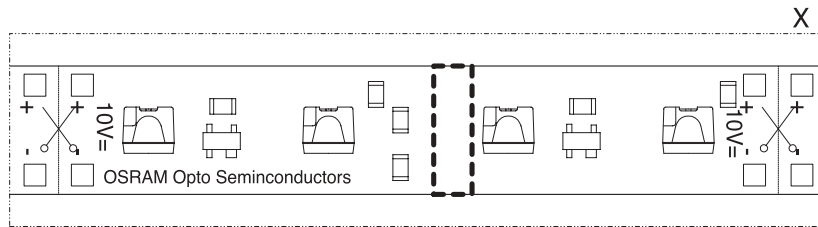
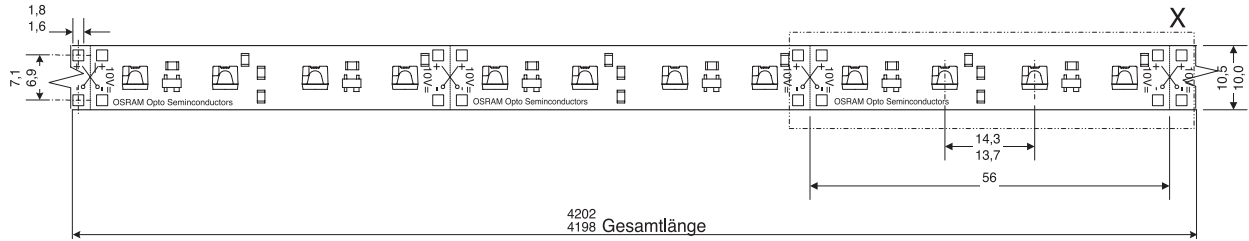
| Product Number             | 70061                         | 70062                        | 70063                         | 70064                         | 70065                     |
|----------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|---------------------------|
| Ordering Abbreviation      | LINEARFLEXTOP/587/OS/LM10A/Y1 | LINEARFLEXTOP/617/OS/LM10A/A | LINEARFLEXTOP/525/OS/LM10A/T1 | LINEARFLEXTOP/470/OS/LM10A/B1 | LINEARFLEXTOP/OS/LM10A/W1 |
| Operating Voltage (V)      | 24                            | 24                           | 24                            | 24                            | 24                        |
| Power (W)                  | 72.0                          | 72.0                         | 72.0                          | 72.0                          | 57.6                      |
| Color                      | Yellow                        | Amber Red                    | True Green                    | Blue                          | White                     |
| Wavelength (nm)            | 587                           | 617                          | 525                           | 469                           |                           |
| Color Temp (K)             |                               |                              |                               |                               | 5400K, 4700K              |
| LEDs/Module                | 600                           | 600                          | 600                           | 600                           | 600                       |
| Operating Temperature (°C) | -30 to +65                    | -30 to +65                   | -30 to +65                    | -30 to +65                    | -30 to +65                |
| Dimensions (mm)            | 8400 X 10 X 2.5               | 8400 X 10 X 2.5              | 8400 X 10 X 2.5               | 8400 X 10 X 2.5               | 8400 X 10 X 2.5           |
| Inter-LED Spacing (mm)     | 14.000                        | 14.000                       | 14.000                        | 14.000                        | 14.000                    |
| Luminous Flux (lm)         | 1290                          | 930                          | 675                           | 170                           | 540                       |
| Luminous Intensity (cd)    | 0.72                          | 0.53                         | 0.38                          | 0.09                          | 0.30                      |
| Viewing Angle (°)          | 120                           | 120                          | 120                           | 120                           | 120                       |

LED SYSTEMS

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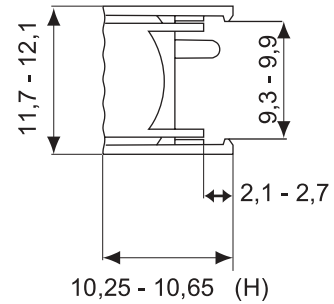
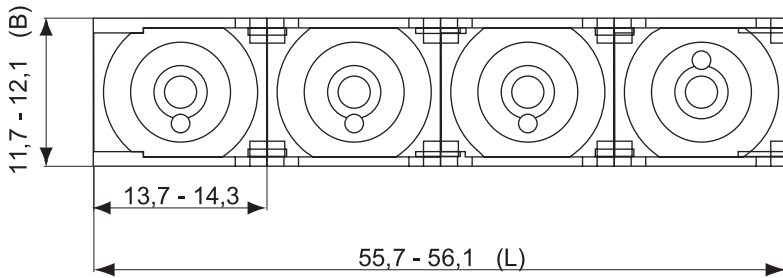
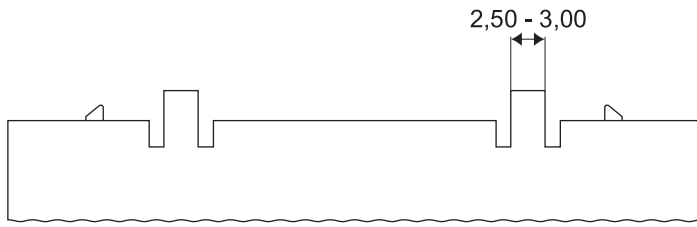


**LINEARLIGHT – FLEXIBLE – SIDELED**

| Product Number             | 70066                          | 70067                           | 70068                          | 70069                          | 70070                       |
|----------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|-----------------------------|
| Ordering Abbreviation      | LINEARFLEXSIDE/615 /OS/LM11A/A | LINEARFLEXSIDE/587 /OS/LM11A/Y1 | LINEARFLEXSIDE/525 /OS/LM11A/T | LINEARFLEXSIDE/470 /OS/LM11A/B | LINEARFLEXSIDE /OS/LM11A/W1 |
| Operating Voltage (V)      | 10                             | 10                              | 10                             | 10                             | 10                          |
| Power (W)                  | 15.0                           | 22.5                            | 30.0                           | 30.0                           | 30.0                        |
| Color                      | Amber Red                      | Yellow                          | True Green                     | Blue                           | White                       |
| Wavelength (nm)            | 615                            | 587                             | 528                            | 470                            |                             |
| Color Temp (K)             |                                |                                 |                                |                                | 5400K, 4700K                |
| LEDs/Module                | 300                            | 300                             | 300                            | 300                            | 300                         |
| Operating Temperature (°C) | -30 to +65                     | -30 to +65                      | -30 to +65                     | -30 to +65                     | -30 to +65                  |
| Dimensions (mm)            | 4200X10X4.5                    | 4200X10X4.5                     | 4200X10X4.5                    | 4200X10X4.5                    | 4200X10X4.5                 |
| Inter-LED Spacing (mm)     | 14.000                         | 14.000                          | 14.000                         | 14.000                         | 14.000                      |
| Luminous Flux (lm)         | 117                            | 405                             | 147                            | 37                             | 405                         |
| Luminous Intensity (cd)    | 0.135                          | 0.45                            | 0.16                           | 0.04                           | 0.45                        |
| Viewing Angle (°)          | 120                            | 120                             | 120                            | 120                            | 120                         |

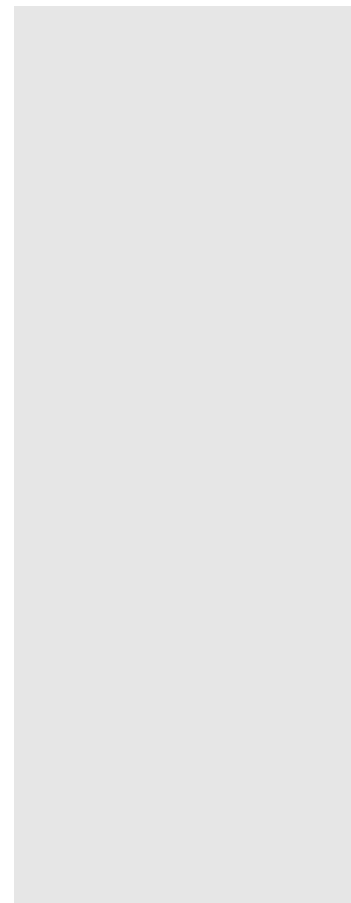
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## OPTICS ACCESSORIES

|                            |                             |
|----------------------------|-----------------------------|
| Product Number             | 70072                       |
| Ordering Abbreviation      | LINEARLT OPTICS OS-OP4X1-20 |
| Operating Voltage (V)      |                             |
| Power (W)                  |                             |
| Color                      |                             |
| Wavelength (nm)            |                             |
| LEDs/Module                |                             |
| Operating Temperature (°C) | -30 to +65                  |
| Dimensions (mm)            |                             |
| Inter-LED Spacing (mm)     |                             |
| Luminous Flux (lm)         |                             |
| Luminous Intensity (cd)    | 0.7 - 6.0                   |
| Viewing Angle (°)          | 20 (except 25° for white)   |
| Maximum Board Spacing (mm) |                             |

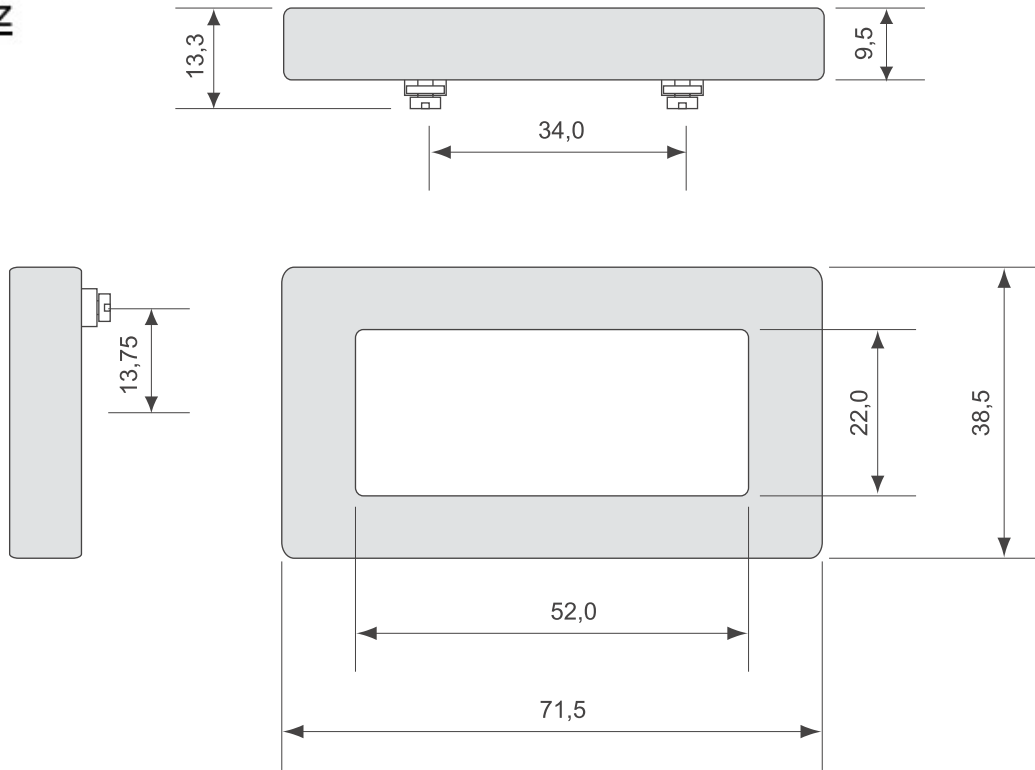


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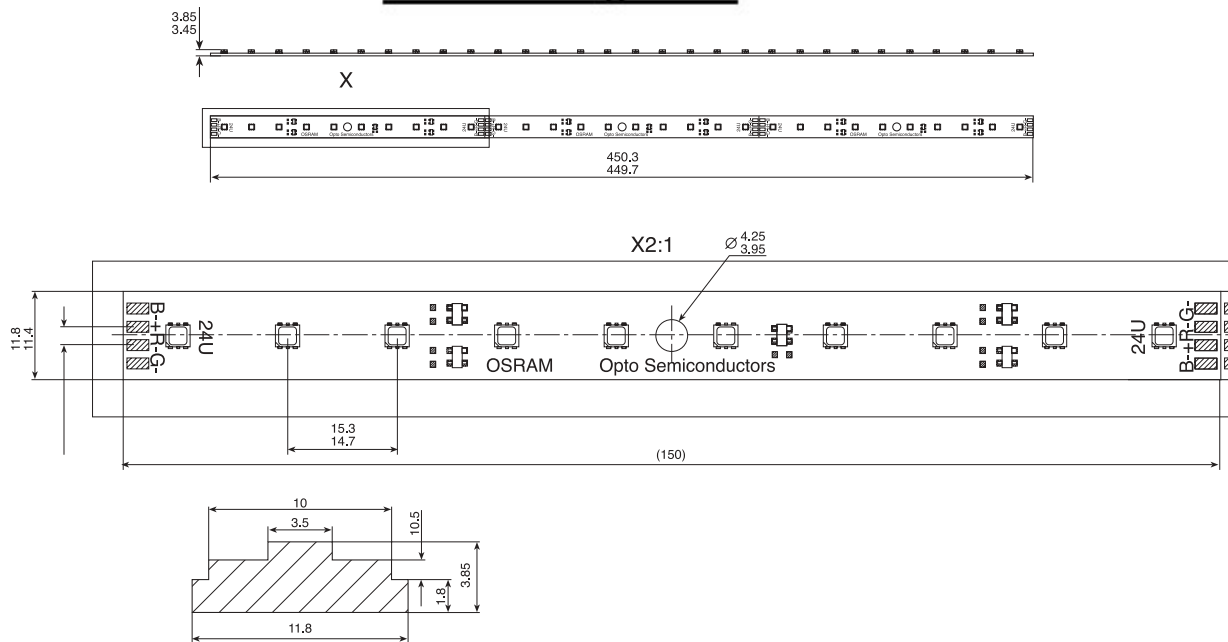
**LED TAG**

| Product Number                 | 70073                 | 70074                 | 70075                 | 70076                 | 70077             |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|
| Ordering Abbreviation          | LEDTag/633/OS-ML90A-S | LEDTag/606/OS-ML90A-O | LEDTag/528/OS-ML90A-T | LEDTag/470/OS-ML90A-B | LEDTAG/OS-ML90A-W |
| Operating Voltage (V)          | 9                     | 9                     | 9                     | 9                     | 9                 |
| Power (W)                      | 0.18                  | 0.18                  | 0.36                  | 0.36                  | 0.36              |
| Color                          | Super Red             | Orange                | True Green            | Blue                  | White             |
| Wavelength (nm)                | 633                   | 606                   | 528                   | 470                   | X=0.32; Y=0.31    |
| LEDs/Module                    | 4                     | 4                     | 4                     | 4                     | 4                 |
| Operating Temperature (°C)     | -30 to +45            | -10 to +45            | -10 to +45            | -10 to +45            | -10 to +45        |
| Dimensions (mm)                | 71.5 X 38.5 X 14      | 71.5 X 38.5 X 14      | 71.5 X 38.5 X 14      | 71.5 X 38.5 X 14      | 71.5 X 38.5 X 14  |
| Inter-LED Spacing (mm)         |                       |                       |                       |                       |                   |
| Luminance (cd/m <sup>2</sup> ) | 185                   | 420                   | 290                   | 85                    | 420               |
| Luminous Intensity (cd)        |                       |                       |                       |                       |                   |
| Viewing Angle (°)              |                       |                       |                       |                       |                   |
| Maximum Board Spacing (mm)     |                       |                       |                       |                       |                   |

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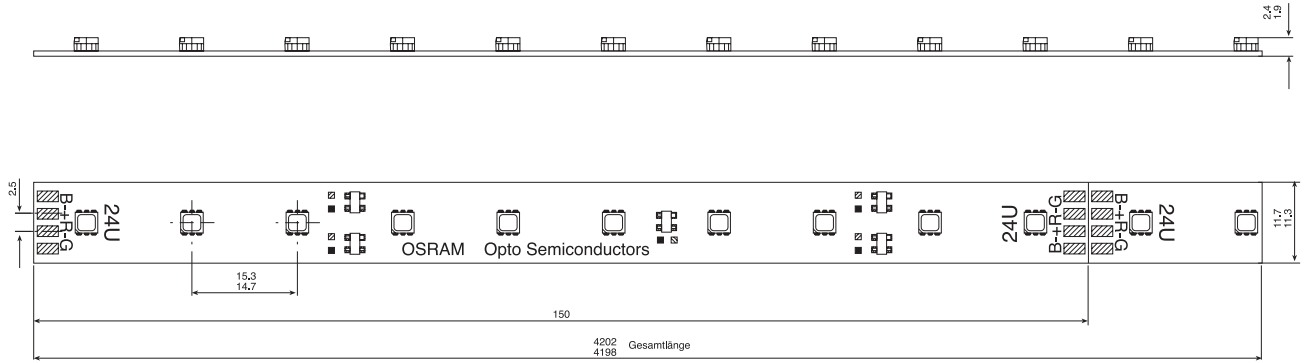
## LINEARLIGHT COLORMIX

|                            |                              |           |           |                          |
|----------------------------|------------------------------|-----------|-----------|--------------------------|
| Product Number             | 70080                        |           |           |                          |
| Ordering Abbreviation      | LINEARCOLORMIX/OS /LM01M/RGB |           |           |                          |
| Operating Voltage (V)      | 24                           | 24        | 24        | 24                       |
| Power (W)                  | 8.3                          | 1.8       | 3.6       | 2.9                      |
| Color                      | All colors                   | Red       | Green     | Blue                     |
| Wavelength (nm)            | ---                          | 617       | 525       | 467 for -B7; 473 for -B8 |
| LEDs/Module                | 30                           | 30        | 30        | 30                       |
| Operating Temperature (°C) | -30...+65                    | -30...+65 | -30...+65 | -30...+65                |
| Dimensions (mm)            | 450 x 12 x 4                 |           |           |                          |
| Inter-LED Spacing (mm)     | 15                           |           |           |                          |
| Luminous Flux (lm)         | 91                           | 32        | 51        | 8                        |
| Luminous Intensity (cd)    | 1.0                          | 0.36      | 0.57      | 0.09                     |
| Viewing Angle (°)          | 120                          | 120       | 120       | 120                      |

LED SYSTEMS

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## LINEARLIGHT FLEX TOP COLORMIX

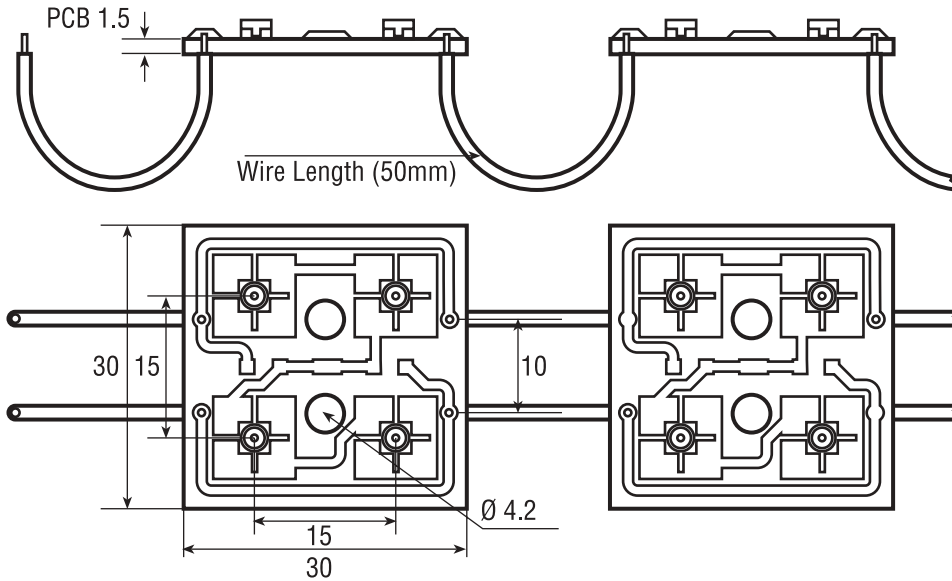
|                            |                                     |           |           |           |
|----------------------------|-------------------------------------|-----------|-----------|-----------|
| Product Number             | 70082                               |           |           |           |
| Ordering Abbreviation      | LINEARFLEXTOPCOLORMIX /OS/LM10M/RGB |           |           |           |
| Operating Voltage (V)      | 24                                  | 24        | 24        | 24        |
| Power (W)                  | 77.5                                | 16.8      | 33.6      | 27.1      |
| Color                      | All colors                          | Red       | Green     | Blue      |
| Wavelength (nm)            | ---                                 | 617       | 525       | 467, 473  |
| LEDs/Module                | 280                                 | 280       | 280       | 280       |
| Operating Temperature (°C) | -30...+65                           | -30...+65 | -30...+65 | -30...+65 |
| Dimensions (mm)            | 4200 x 11.5 x 2.5                   |           |           |           |
| Inter-LED Spacing (mm)     | 15                                  |           |           |           |
| Luminous Flux (lm)         | 849                                 | 299       | 476       | 75        |
| Luminous Intensity (cd)    | 1.0                                 | 0.36      | 0.57      | 0.09      |
| Viewing Angle (°)          | 120                                 |           |           |           |

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# Interlight Specialty Bulbs

1-800-743-0005

[www.interlight.biz](http://www.interlight.biz)



## BACKLIGHT

| Product Number             | 70011                   | 70012                    | 70013                    |
|----------------------------|-------------------------|--------------------------|--------------------------|
| Ordering Abbreviation      | BACKLITE/615/OS/LM03A/A | BACKLITE/587/OS/LM03A/Y1 | BACKLITE/525/OS/LM03A/T1 |
| Operating Voltage (V)      | 10                      | 10                       | 10                       |
| Power (W)                  | 4.00                    | 4.0                      | 4.00                     |
| Color                      | Amber Red               | Yellow                   | True Green               |
| Wavelength (nm)            | 617                     | 587                      | 525                      |
| LEDs/Module                | 32                      | 32                       | 32                       |
| Operating Temperature (°C) | -30 to +65              | -30 to +65               | -30 to +65               |
| Dimensions                 | 559 x 30 x 6            | 559 X 30 X 6             | 559 x 30 x 6             |
| Inter-LED Spacing          | 15.000                  | 15.000                   | 15.000                   |
| Luminous Flux (lm)         | 54                      | 69                       | 36                       |
| Luminous Intensity (cd)    | 0.535                   | 0.72                     | 0.38                     |
| Viewing Angle (°)          | 120                     | 120                      | 120                      |

LED SYSTEMS

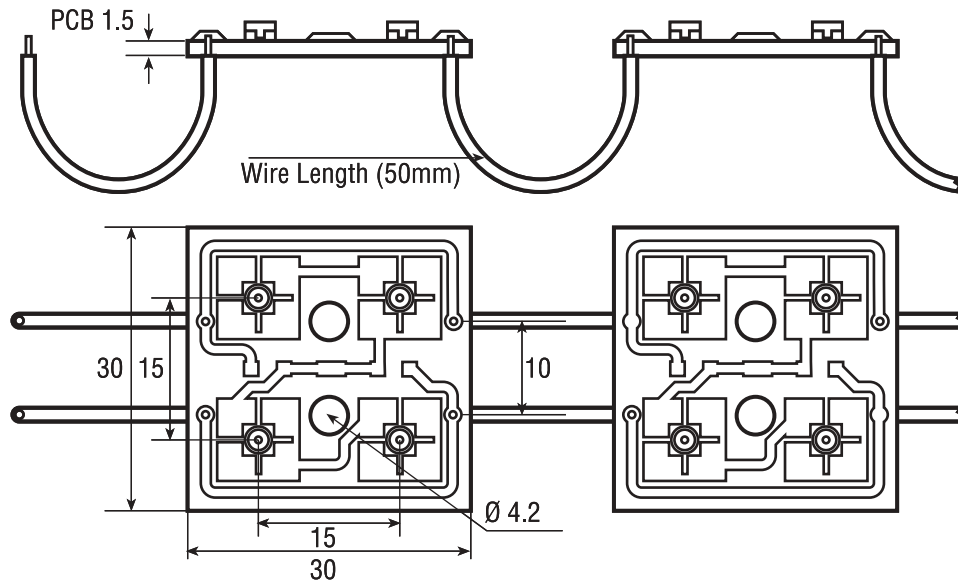


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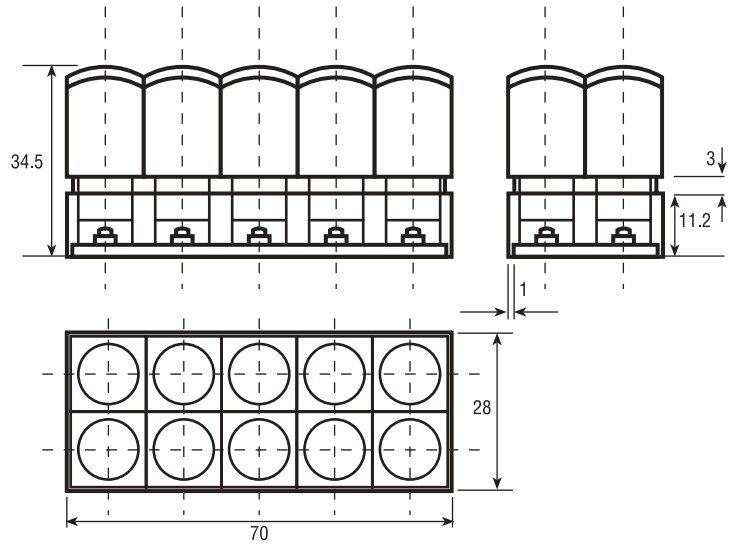
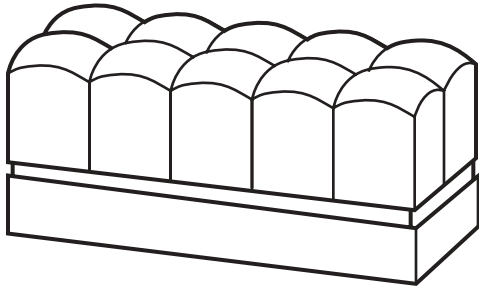


## BACKLIGHT

| Product Number             | 70014                   | 70045                | 70071                   | 70081                   |
|----------------------------|-------------------------|----------------------|-------------------------|-------------------------|
| Ordering Abbreviation      | BACKLITE/470/OS/LM03A/B | BACKLITE/OS/LM03A/W1 | BACKLITE/610/OS/LM03B/O | BACKLITE/633/OS/LM03A/S |
| Operating Voltage (V)      | 10                      | 10                   | 10                      | 10                      |
| Power (W)                  | 4.00                    | 3.20                 | 4.0                     | 4.0                     |
| Color                      | Blue                    | White                | Orange                  | Super Red               |
| Wavelength (nm)            | 470                     |                      | 606                     | 633                     |
| Color Temp (K)             |                         | 6500K, 5400K         |                         |                         |
| LEDs/Module                | 32                      | 32                   | 32                      | 32                      |
| Operating Temperature (°C) | -30 to +65              | -30 to +65           | -30 to +65              | -30 to +65              |
| Dimensions                 | 559 X 30 X 6            | 559x30x6             | 559X30X6                | 559x30x6                |
| Inter-LED Spacing          | 15.000                  | 15.000               | 15.000                  | 15.000                  |
| Luminous Flux (lm)         | 9                       | 29                   | 86                      | 54                      |
| Luminous Intensity(cd)     | 0.09                    | 0.30                 | 0.90                    | 0.535                   |
| Viewing Angle (°)          | 120                     | 120                  | 120                     | 120                     |

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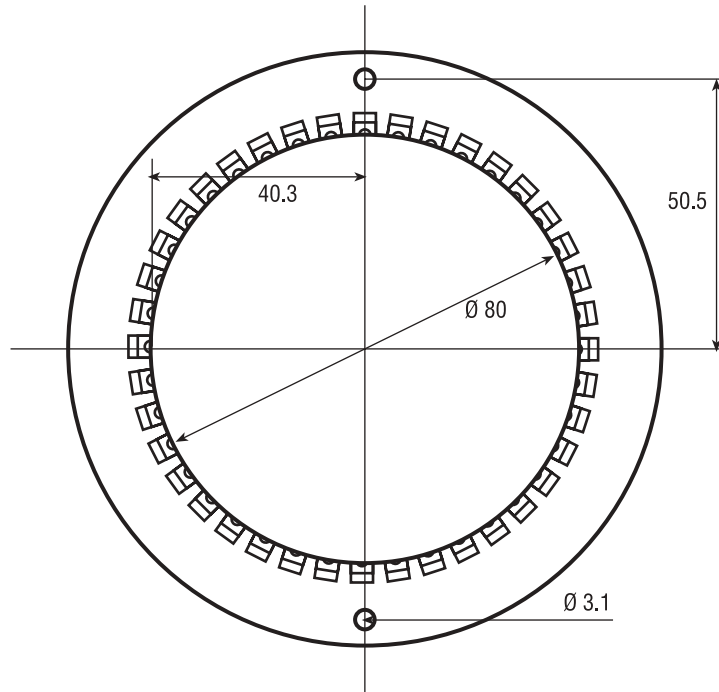
### EFFECTLIGHT

| Product Number              | 70015                  | 70016                  | 70017                  | 70018                  |
|-----------------------------|------------------------|------------------------|------------------------|------------------------|
| Ordering Abbreviation       | FXLITE/615/OS/WL01A/A1 | FXLITE/587/OS/WL01A/Y1 | FXLITE/505/OS/WL01A/V1 | FXLITE/470/OS/WL01A/B1 |
| Operating Voltage (V)       | 24                     | 24                     | 24                     | 24                     |
| Power (W)                   | 1.1                    | 1.1                    | 1.3                    | 1.3                    |
| Color                       | Amber Red              | Yellow                 | Verde                  | Blue                   |
| Wavelength (nm)             | 617                    | 587                    | 503                    | 469                    |
| LEDs/Module                 | 10                     | 10                     | 10                     | 10                     |
| Operating Temperature (° C) | -30 to +65             | -30 to +65             | -30 to +65             | -30 to +65             |
| Dimensions (mm)             | 70 x 28 x 34.5         | 70 x 28 x 34.5         | 70 x 28 x 34.5         | 70 x 28 x 34.5         |
| Luminous Intensity (cd)     | 3500                   | 2500                   | 2000                   | 350                    |
| Viewing Angle (°)           | 4                      | 4                      | 4                      | 4                      |

LED SYSTEMS

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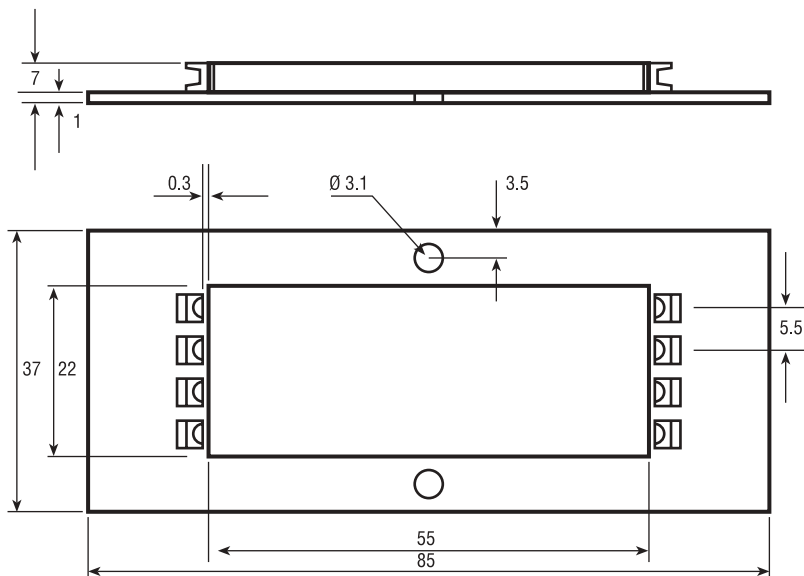
### MARKERLIGHT – CIRCULAR

| Product Number                      | 70039                 | 70040                  | 70041                 | 70042                 | 70043              |
|-------------------------------------|-----------------------|------------------------|-----------------------|-----------------------|--------------------|
| Ordering Abbreviation               | ML/80D/615/OS/ML03A/A | ML/80D/587/OS/ML03A/Y1 | ML/80D/525/OS/ML03A/T | ML/80D/470/OS/ML03A/B | ML/80D/OS/ML03A/W1 |
| Operating Voltage (V)               | 24                    | 24                     | 24                    | 24                    | 24                 |
| Power (W)                           | 1.92                  | 2.88                   | 3.84                  | 3.84                  | 3.84               |
| Color                               | Amber Red             | Yellow                 | True Green            | Blue                  | White              |
| Wavelength (nm) / Color Coordinates | 615                   | 587                    | 528                   | 470                   | X=0.32 Y=0.31      |
| LEDs/Module                         | 40                    | 40                     | 40                    | 40                    | 40                 |
| Operating Temperature (deg C)       | -30 to +65            | -30 to +65             | -30 to +65            | -30 to +65            | -30 to +65         |
| Dimensions (mm)                     | 110 x 110 x 7         | 110 x 110 x 7          | 110 x 110 x 7         | 110 x 110 x 7         | 110 x 110 x 7      |
| Luminance (cd/m <sup>2</sup> )      | 705                   | 1630                   | 705                   | 205                   | 2050               |
| Luminous Area (diameter, mm)        | 77                    | 77                     | 77                    | 77                    | 77                 |

For more complete product information visit [www.sylvania.com](http://www.sylvania.com)

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Interlight Specialty Bulbs  
 1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)

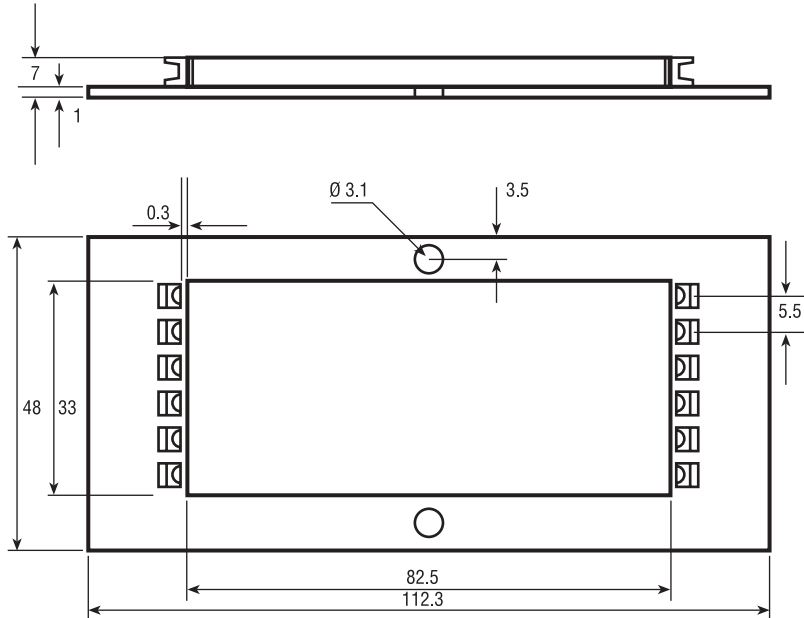


### MARKERLIGHT – RECTANGULAR – SMALL

| Product Number                      | 70019                   | 70020                   | 70021                   | 70022                   | 70023               |
|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|
| Ordering Abbreviation               | ML/55X22/615/OS/ML01A/A | ML/55X22/587/OS/ML01A/Y | ML/55X22/525/OS/ML01A/T | ML/55X22/470/OS/ML01A/B | ML/55X22/OS/ML01A/W |
| Operating Voltage (V)               | 10                      | 10                      | 10                      | 10                      | 10                  |
| Power (W)                           | 0.40                    | 0.40                    | 0.80                    | 0.80                    | 0.80                |
| Color                               | Amber Red               | Yellow                  | True Green              | Blue                    | White               |
| Wavelength (nm) / Color Coordinates | 615                     | 587                     | 525                     | 470                     | X = 0.32 Y = 0.31   |
| LEDs/Module                         | 8                       | 8                       | 8                       | 8                       | 8                   |
| Operating Temperature (deg C)       | -30 to +65              | -30 to +65              | -30 to +65              | -30 to +65              | -30 to +65          |
| Dimensions (mm)                     | 85 x 37 x 7             | 85 x 37 x 7             | 88 x 37 x 7             | 85 x 37 x 7             | 85 x 37 x 7         |
| Luminance (cd/m <sup>2</sup> )      | 715                     | 440                     | 725                     | 140                     | 880                 |
| Luminous Area (mm)                  | 52 x 22                 | 52 x 22                 | 52 x 22                 | 52 x 22                 | 52 x 22             |

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[www.interlight.biz](http://www.interlight.biz)



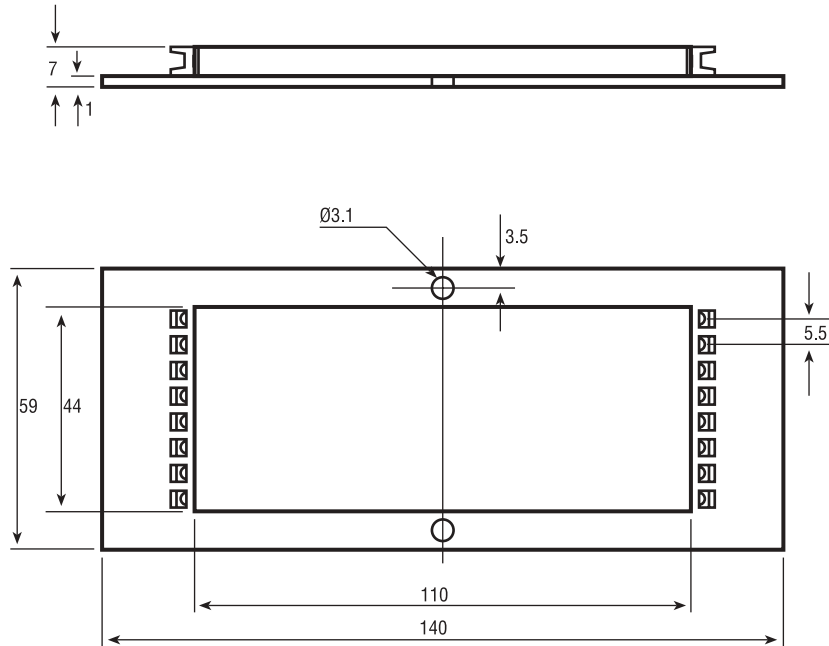
**MARKERLIGHT – RECTANGULAR – MEDIUM**

| Product Number                      | 70024                   | 70025                   | 70026                   | 70027                   | 70028               |
|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|
| Ordering Abbreviation               | ML/82X33/615/OS/ML01B/A | ML/82X33/587/OS/ML01B/Y | ML/82X33/525/OS/ML01B/T | ML/82X33/470/OS/ML01B/B | ML/82X33/OS/ML01B/W |
| Operating Voltage (V)               | 10                      | 10                      | 10                      | 10                      | 10                  |
| Power (W)                           | 0.60                    | 0.60                    | 1.20                    | 1.20                    | 1.20                |
| Color                               | Amber Red               | Yellow                  | True Green              | Blue                    | White               |
| Wavelength (nm) / Color Coordinates | 615                     | 587                     | 525                     | 470                     | X = 0.32 Y = 0.31   |
| LEDs/Module                         | 12                      | 12                      | 12                      | 12                      | 12                  |
| Operating Temperature (deg C)       | -30 to +65              | -30 to +65              | -30 to +65              | -30 to +65              | -30 to +65          |
| Dimensions (mm)                     | 112.5 x 48 x 7          | 112.5 x 48 x 7          | 112.5 x 48 x 7          | 112.5 x 48 x 7          | 112.5 x 48 x 5      |
| Luminance (cd/m <sup>2</sup> )      | 405                     | 370                     | 410                     | 90                      | 360                 |
| Luminous Area (mm)                  | 79.5 x 33               | 79.5 x 33               | 79.5 x 33               | 79.5 x 33               | 79.5 x 33           |

LED SYSTEMS

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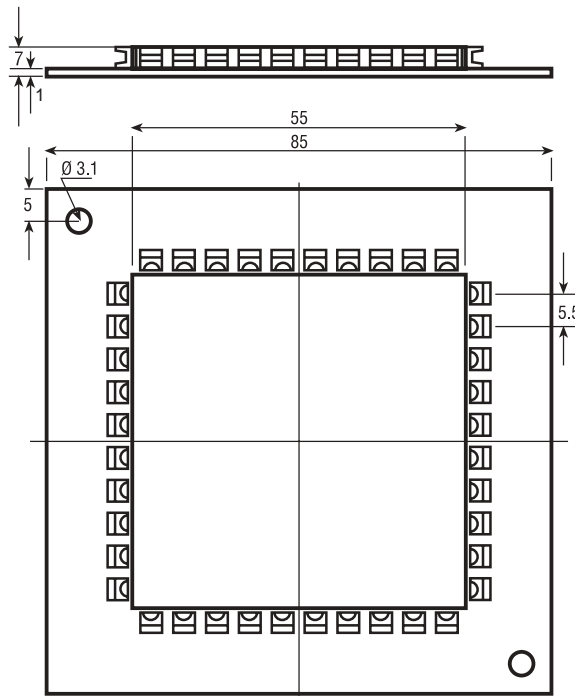
**MARKERLIGHT – RECTANGULAR – LARGE**

| Product Number                      | 70029                     | 70030                     | 70031                     | 70032                     | 70033                 |
|-------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------|
| Ordering Abbreviation               | ML/110X44/615/OS /ML01C/A | ML/110X44/587/OS /ML01C/Y | ML/110X44/525/OS /ML01C/T | ML/110X44/470/OS /ML01C/B | ML/110X44/OS /ML01C/W |
| Operating Voltage (V)               | 10                        | 10                        | 10                        | 10                        | 10                    |
| Power (W)                           | 0.80                      | 0.80                      | 1.60                      | 1.60                      | 1.60                  |
| Color                               | Amber Red                 | Yellow                    | True Green                | Blue                      | White                 |
| Wavelength (nm) / Color Coordinates | 615                       | 587                       | 525                       | 470                       | X = 0.32 Y = 0.31     |
| LEDs/Module                         | 16                        | 16                        | 16                        | 16                        | 16                    |
| Operating Temperature (deg C)       | -30 to +65                | -30 to +65                | -30 to +65                | -30 to +65                | -30 to +65            |
| Dimensions (mm)                     | 140 x 59 x 7              | 140 x 59 x 7              | 140 x 59 x 7              | 140 x 59 x 7              | 140 x 59 x 7          |
| Luminance (cd/m <sup>2</sup> )      | 320                       | 300                       | 330                       | 80                        | 280                   |
| Luminous Area                       | 107 x 44                  | 107 x 44                  | 107 x 44                  | 107 x 44                  | 107 x 44              |

LED SYSTEMS

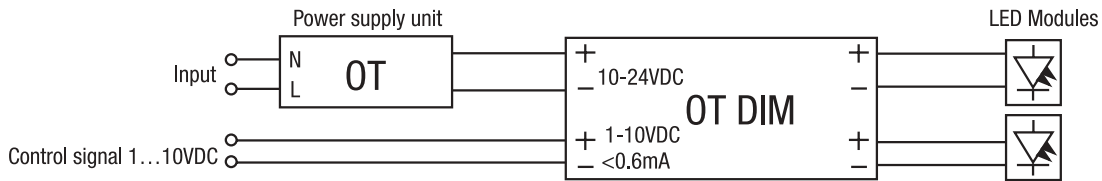
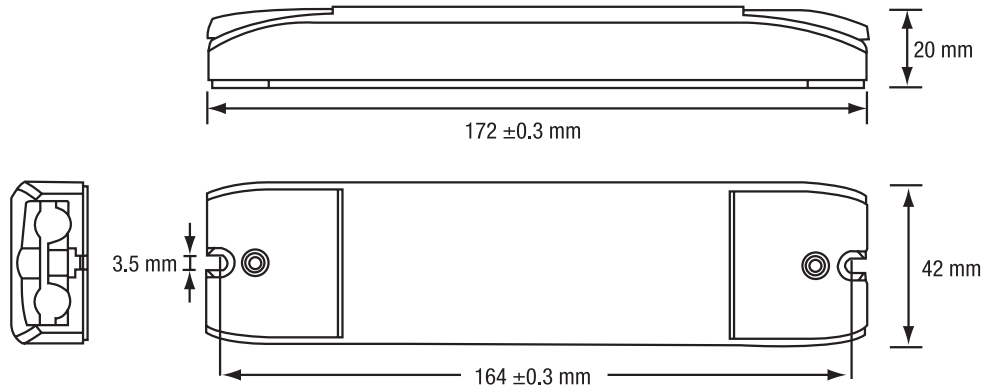
Click Below To Order

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 1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)



### MARKERLIGHT – SQUARE

| Product Number                      | 70034                  | 70035                   | 70036                  | 70037                  | 70038               |
|-------------------------------------|------------------------|-------------------------|------------------------|------------------------|---------------------|
| Ordering Abbreviation               | ML/55SQ/615/OS/ML02A/A | ML/55SQ/587/OS/ML02A/Y1 | ML/55SQ/525/OS/ML02A/T | ML/55SQ/470/OS/ML02A/B | ML/55SQ/OS/ML02A/W1 |
| Operating Voltage (V)               | 24                     | 24                      | 24                     | 24                     | 24                  |
| Power (W)                           | 1.92                   | 2.88                    | 3.84                   | 3.84                   | 3.84                |
| Color                               | Amber Red              | Yellow                  | True Green             | Blue                   | White               |
| Wavelength (nm) / Color Coordinates | 615                    | 587                     | 528                    | 470                    | X=0.32 Y=0.31       |
| LEDs/Module                         | 40                     | 40                      | 40                     | 40                     | 40                  |
| Operating Temperature (deg C)       | -30 to +65             | -30 to +65              | -30 to +65             | -30 to +65             | -30 to +65          |
| Dimensions (mm)                     | 85 x 85 x 7            | 85 x 85 x 7             | 85 x 85 x 7            | 85 X 85 X 7            | 85 x 85 x 7         |
| Luminance (cd/m <sup>2</sup> )      | 1170                   | 2700                    | 1170                   | 340                    | 3400                |
| Luminous Area (mm)                  | 52 x 52                | 52 x 52                 | 52 x 52                | 52 x 52                | 52 x 52             |

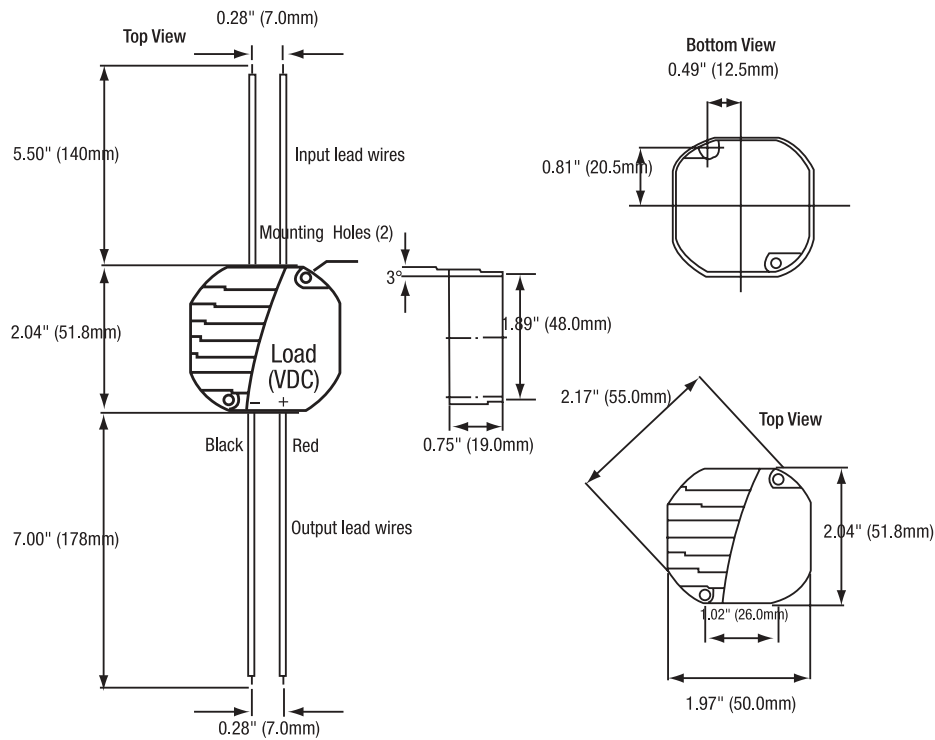


### OPTOTRONIC DIMMING AND RGB CONTROL MODULES

| Product Number             | 51516          | 51517           | 51518            |
|----------------------------|----------------|-----------------|------------------|
| Description                | OTDIM          | OT RGB 3 CHDIM  | OT RGB SEQUENCER |
| Input Voltage (V)          | 10.5/24        | 10.5/24         | 10.5/24          |
| Max. Input Current (Amps)  | 5.3            | 6               | 6                |
| Output Power (W)           | 0 - 52.5/0-120 | 0-20 / 0-48     | 0-20 / 0-48      |
| Max. Output Power (W)      |                | 60/140          | 60/140           |
| Max. Output Current (Amps) | 5              | 2 A per channel | 2 A per channel  |
| Control Voltage (VDC)      | 0 - 10         | 0 - 10          | 0 - 10           |
| Max. Power Loss (W)        | 3              | 3               | 3                |

LED SYSTEMS





### OPTOTRONIC LED POWER SUPPLY

| Product Number       | 51500                 | 51505        | 51508        | 51501                 | 51512                |
|----------------------|-----------------------|--------------|--------------|-----------------------|----------------------|
| Description          | OT6/100-240/10COS     | OT25/120/10  | OT50/120/10  | OT6/100 - 240/24COS   | OT20/120-240/24S     |
| Input Voltage (VAC)  | 100 - 240             | 120          | 120          | 100 - 240             | 120 - 240            |
| Input Current (Amps) | .15@120V , .050@ 240V | .26@120V     | .52@120V     | .15@120V , .050@ 240V | .35@120V , .23@ 240V |
| Output Voltage (VDC) | 10.5 +/- 0.5          | 10.5 +/- 1.0 | 10.5 +/- 1.0 | 24.0 +/- 0.5          | 24.0 +/- 0.5         |
| Min. Power (W)       | 0.2                   | 3            | 10           | 0.2                   | 0.9                  |
| Max. Power (W)       | 6                     | 25           | 50           | 6                     | 20                   |
| Max. Line Ripple (V) | +/- .4V               | +/- 1.1V     | +/- 1.1V     | +/- .4V               | +/- .2V              |
| Remote Mounting (ft) | 26                    | 10           | 8            | 26                    | 32                   |

**SYLVANIA HID SYSTEM  
LIMITED WARRANTY**

**Combination Lamp and Ballast System Limited Warranty**

OSRAM SYLVANIA Products Inc. ("OSPI") warrants SYLVANIA lamps installed on SYLVANIA magnetic ballasts to be free from defects in material and workmanship and to operate from the date of installation (or 3 months from date of manufacture if installation date is not known or available) for the lamp and ballast warranty

periods and subject to the Terms and Conditions specified below. If lamps fail to operate for the warranty period, OSPI will provide a free replacement lamp (no labor allowance). If a SYLVANIA magnetic ballast fails to operate within the warranty period, OSPI will provide a free replacement ballast (no labor allowance).

| System    | Avg. Rated Lamp Life* | Lamp Warranty Period | Ballast Warranty Period |
|-----------|-----------------------|----------------------|-------------------------|
| METALARC® | 7,000-12,000 hrs      | 6 months             | 24 months               |
| METALARC® | 15,000-20,000 hrs     | 12 months            | 24 months               |
| LUMALUX®  | 24,000 hrs            | 12 months            | 24 months               |
| LUMALUX®  | ≥ 30,000 hrs          | 24 months            | 24 months               |

**TERMS AND CONDITIONS**

SYLVANIA lamps and SYLVANIA ballasts must be installed together as a system and be installed and operated under suitable environmental conditions and in accordance with the latest National Electrical Code, Underwriters Laboratory Bulletins, and ANSI Specifications. This warranty will not apply in the event of conditions demonstrating abnormal use or stress, such as operating temperatures in excess of maximum rated temperatures, under/over voltage conditions, excessive switching cycles or operating hours, dirty or cracked sockets, or improper lamp or ballast installation. Replacement of SYLVANIA lamps with lamps of other manufacturers will void the lamp portion of this warranty. Replacement of the SYLVANIA ballast with any other ballast will void the entire warranty.

**FURTHER CONDITIONS**

1. Warranty periods based on a minimum 4,000 hours/year to a maximum 6,000 hours/year operation (minimum 10hr/start for lamp).
2. The lighting system must operate the lamp within current ANSI Specifications.
3. OSRAM SYLVANIA reserves the right to examine all failed lamps to verify cause of failure and shall be the sole judge as to whether the lamps are in fact defective.
4. System warranty valid only for installations of 50 or more lamps and ballasts. Contact OSRAM SYLVANIA for further details.
5. Check with OSRAM SYLVANIA when using occupancy sensors or dimming, as some situations may void the warranty.

**WARRANTY ACTIVATION / SERVICE CLAIMS**

The HID System warranty is automatically activated after OSPI receives a completed HID System warranty registration form within 30 days after installation. An acknowledgment will be sent for each registration along with a reference number for future correspondence. Service claims can be made by contacting 1-800-LIGHTBULB to initiate the process for problem resolution.

**LABOR OPTIONS**

**No labor allowance is made for lamp or ballast replacement.**

**RETURN OF DEFECTIVE PRODUCT**

After contacting OSRAM SYLVANIA and receiving a RETURN MATERIAL AUTHORIZATION NUMBER, the user shall promptly return the product at the user's expense to OSRAM SYLVANIA after receiving instructions as to if, when and where to ship product. Failure to follow this procedure shall void this warranty.

**REPLACEMENT OF PRODUCT, LIMITS OF LIABILITY**

The foregoing shall constitute the sole and exclusive remedy of the purchaser and the sole and exclusive liability of OSPI. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED. OSPI will not, under any circumstance, whether as a result of breach of contract or warranty, tort, or otherwise, be liable for any incidental, special or consequential damages, including lost profits or revenues or any other costs or damages.

OSPI reserves the right to examine all failed lamps and/or ballasts and reserves the right to be the sole judge as to whether any lamps and/or ballasts are defective and covered under this warranty.

\*Subject to and limited by the lamp warranty period limitations set forth above.

**QUESTIONS?** Please call customer service at 1-800-654-0089 or contact your local OSRAM SYLVANIA representative.



WARRANTIES

Photocopy the form below and use it to register any installation featuring SYLVANIA magnetic ballast systems. Also available is our on-line version which you may find by visiting our web site at [www.sylvania.com](http://www.sylvania.com). The warranty coverage begins from the date of installation, but you must register an installation in order to receive warranty service.

**Installation Information**

Location Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Send Registration To: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Installation Date: \_\_\_\_\_

Operating Hours: \_\_\_\_\_ starts/day \_\_\_\_\_ hours/day \_\_\_\_\_ days/year

Occupancy Sensors\* \_\_\_\_\_ (Yes/No) Dimming\* \_\_\_\_\_ (Yes/No)  
\* check with OSRAM SYLVANIA when using occupancy sensors or dimming, as some situations may void the warranty.

Comments \_\_\_\_\_

**Type & Quantities** (Description and NAED Item # as Shown on Product Packaging)

| Ballast Description           | NAED Item #  | Quantity    | Lamp Description            | NAED Item #  | Quantity    | Comments |
|-------------------------------|--------------|-------------|-----------------------------|--------------|-------------|----------|
| <i>e.g. M750/MULTI-PS-KIT</i> | <i>47717</i> | <i>1000</i> | <i>MS750/PS/BU-HOR/BT37</i> | <i>64787</i> | <i>1000</i> |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |
|                               |              |             |                             |              |             |          |

**Please Complete and Return To:**  
**OSRAM SYLVANIA**  
 Attn: Warranty Dept.  
 18725 N. Union Street, Westfield, IN 46074  
 Tel #: 800/654-0089 Email: [warranty.service@sylvania.com](mailto:warranty.service@sylvania.com)

**Or Complete and Fax To:**  
**OSRAM SYLVANIA**  
**Fax #: 866/632-9674**

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OSRAM SYLVANIA National Customer Service and Sales Center  
[www.sylvania.com](http://www.sylvania.com)

**Interlight Specialty Bulbs**  
**1-800-743-0005**  
**[www.interlight.biz](http://www.interlight.biz)**

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**Limited Warranty****The Heart of a Comprehensive System Service Program**

Compare lighting system warranties – you'll see that our QUICK 60+ warranty offers better coverage, more service options and, more important, peace of mind.

**Combination Lamp and Ballast System Limited Warranty**OSRAM SYLVANIA Products Inc. ("OSPI") warrants SYLVANIA lamps installed on QUICKTRONIC<sup>®</sup> ballasts to be free from defects in material and workmanship and to operate from the date of installation (or date of manufacture if installation date is not known or available) for the time periods and subject to the Terms and Conditions specified below. If lamps fail to operate for the warranty period, OSPI

will provide a free replacement lamp (but no labor allowance). If a QUICKTRONIC ballast fails to operate within the warranty period, OSPI will provide a free replacement ballast and labor allowance in accordance with the "Labor Options" set forth below.

| System <sup>2</sup>                      | Lamp   | Ballast Warranty Period*        | Lamp Warranty Period* |
|--|--|---------------------------------|-----------------------|
| QUICKTRONIC <sup>®</sup> T8 <sup>1</sup> | OCTRON <sup>®</sup> XP <sup>™</sup> , XP/SS <sup>2,3</sup> | 60 months                       | 36 months             |
| QUICKTRONIC PSX T8 <sup>1</sup>          | OCTRON XPS <sup>®4</sup> , XP & XP/SS <sup>2,3</sup>       | 60 months                       | 36 months             |
| QUICKTRONIC T8 <sup>1</sup>              | OCTRON family  | 60 months                       | 30 months             |
| QUICKTRONIC 59                           | OCTRON FO96/XP, FO96/XP/SS                                 | 60 months                       | 30 months             |
| QUICKTRONIC 59                           | OCTRON FO96  | 60 months                       | 24 months             |
| QUICKTRONIC 86/T8HO                      | OCTRON FO96HO  | 60 months                       | 30 months             |
| QUICKTRONIC 96IS/96HO & 40T12            | N/A  | 60 months                       | N/A                   |
| QUICKTRONIC T5, T5/HO, DIM <sup>1</sup>  | PENTRON <sup>®</sup> Family                                | 60 months                       | 24 months             |
| QUICKTRONIC DL40                         | DULUX <sup>®</sup> FT40DL                                  | 60 months                       | 12 months             |
| QUICKTRONIC 54PHO                        | DULUX FT55DL   | 60 months                       | 12 months             |
| QUICKTRONIC CF                           | DULUX D/E, T/E   | 60 months                       | 12 months             |
| QUICKTRONIC FM                           | FM   | 24 months                       | 6 months              |
| QUICKTRONIC ICE <sup>1,5</sup>           | ICETRON <sup>®</sup>                                       | 60 months                       | 60 months             |
| QUICKTRONIC MH <sup>6,7</sup>            | METALARC <sup>®</sup> CERAMIC Family <sup>6</sup>          | 60 months @ <80° C <sup>7</sup> | 6 months              |

\*Note – Fluorescent warranty periods are based on a 3 hour minimum cycle, unless otherwise noted, with a maximum of 4000 hours per year. Other operating cycles may affect warranty period. Lamp warranty can renew when installation is group relamped, contact OSRAM SYLVANIA for details.

<sup>1</sup> Occupancy sensor application, 15 minute/start minimum, allowed with QUICKTRONIC PROStart<sup>®</sup> and with QUICKTRONIC ICE ballasts.<sup>2</sup> OCTRON SUPERSAVER<sup>®</sup> bipin lamps operate on QUICKTRONIC & QUICKTRONIC Professional Instant Start & PROStart (PSN, PSX) models only.<sup>3</sup> QUICKTRONIC and QUICKTRONIC Professional Series including all IS, RS, PS & DIM models where applicable.<sup>4</sup> OCTRON XPS lamps on any other suitable QUICKTRONIC ballast have a 30 month Lamp Warranty Period.<sup>5</sup> ICETRON Lamp Warranty Period allows up to 8760 hrs per year (continuous operation), with a 3 hour per start minimum.<sup>6</sup> Contact OSRAM SYLVANIA for a list of METALARC CERAMIC lamps approved on the QUICKTRONIC MH HID ballasts.<sup>7</sup> QUICKTRONIC MH ballasts warranty is 36 months @ t < 90 C. Electronic HID system warranty period is based on a minimum cycle of 10hr/start up to a maximum operation of 6,000 hours/year.**TERMS AND CONDITIONS**

SYLVANIA lamps and QUICKTRONIC ballasts must be installed together as a system and be installed and operated under suitable environmental conditions and in accordance with the latest National Electrical Code, Underwriters Laboratory Bulletins, and ANSI Specifications. This warranty will not apply in the event of conditions demonstrating abnormal use or stress, such as operating temperatures in excess of maximum rated temperatures, under/over voltage conditions, excessive switching cycles (see above Note #1) or operating hours, dirty or cracked sockets, or improper lamp or ballast installation. Replacement of SYLVANIA lamps with lamps of other manufacturers will void the lamp portion of this warranty. Replacement of the QUICKTRONIC ballast with any other ballast will void the entire warranty.

**WARRANTY ACTIVATION / SERVICE CLAIMS**

The QUICK 60+ warranty is automatically activated after OSPI receives a completed QUICK 60+ warranty registration form within 30 days after installation. An acknowledgment will be sent for each registration along with a reference number for future correspondence. Service claims can be made by contacting 1-800-LIGHTBULB to initiate the process for problem resolution.

**LABOR OPTIONS (Ballast and ICETRON lamps only)****No labor allowance is made for any lamp replacement except ICETRON, during the warranty period.** OSPI provides for several labor options for service under the QUICK 60+ warranty program.

1. OSPI will provide full service coverage through SYLVANIA LIGHTING SERVICES at no cost to the user of the ballast, or

2. OSPI will contact a service provider and coordinate replacement at no cost to the user of the ballast, or

3. OSPI will reimburse the purchaser reasonable, customary and necessary labor charges required to install the ballast replacement.

4. Labor options must be pre-approved by OSPI. Any labor option or cost that is not pre-approved will not be eligible for reimbursement.

**RETURN OF DEFECTIVE PRODUCT**

After contacting OSRAM SYLVANIA and receiving a return AUTHORIZATION NUMBER, the user shall promptly return the product at the user's expense to OSRAM SYLVANIA after receiving instructions as to if, when and where to ship product. Failure to follow this procedure shall void this warranty.

**REPLACEMENT OF PRODUCT, LIMITS OF LIABILITY**

The foregoing shall constitute the sole and exclusive remedy of the purchaser and the sole and exclusive liability of OSPI. NO WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED. OSPI will not, under any circumstance, whether as a result of breach of contract or warranty, tort, or otherwise, be liable for any incidental, special or consequential damages, including lost profits or revenues or any other costs or damages.

OSPI reserves the right to examine all failed lamps and/or ballasts and reserves the right to be the sole judge as to whether any lamps and/or ballasts are defective and covered under this warranty.

**QUESTIONS?** Please call customer service at 1-800-654-0089 or contact your local OSRAM SYLVANIA representative.

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stems. Also available, is our  
 erage begins from the date of installa-

Photocopy the form below and use it to register :  
 on-line version which you may find by visiting ou  
 tion, but you must register an installation in orde

**Installation Information**

Location Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Send Registration To: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Installation Date: \_\_\_\_\_

Operating Hours: \_\_\_\_\_ hours/day \_\_\_\_\_ days/year

Occupancy Sensors:  Yes  No

Comments \_\_\_\_\_

**Type & Quantities** (Description and NAED Item # as Shown on label (or packaging))

| Ballast Description              | NAED Item #  | Quantity   | Lamp Description       | NAED Item #  | Quantity    | Comments |
|----------------------------------|--------------|------------|------------------------|--------------|-------------|----------|
| <i>e.g. QTP2X32T8/UNV ISN-SC</i> | <i>49943</i> | <i>800</i> | <i>FO32/830/XP/ECO</i> | <i>21759</i> | <i>1600</i> |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |
|                                  |              |            |                        |              |             |          |

**Please Complete and Return To:**  
**OSRAM SYLVANIA**  
 Attn: Warranty Dept.  
 18725 N. Union Street  
 Westfield, IN 46074  
 Tel #: 800/654-0089 Email: [warranty.service@sylvania.com](mailto:warranty.service@sylvania.com)

**Or Complete and Fax To:**  
**OSRAM SYLVANIA**  
 Electronic Control Systems  
**Fax #: 866/632-9674**

OSRAM SYLVANIA National Customer Service and Sales Center



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### Magnetic Ballast Limited Warranty

OSRAM SYLVANIA Products Inc. ("OS") warrants SYLVANIA fluorescent magnetic ballasts and high intensity discharge (HID) magnetic ballasts to be free from defects in material and workmanship and to

operate from the date of manufacture for the time periods specified below.

| Magnetic Ballast Type                   | Ballast Warranty Period* |
|---|--------------------------|
| Fluorescent Magnetic                    | 36 months                |
| High Intensity Discharge (HID) Magnetic | 24 months                |
| Magnetic Sign                           | 24 months                |

\*Note - Warranty periods are based on typical 4000 hr/12 months operation; longer operating cycles may limit warranty period. Contact OS for details.

#### TERMS AND CONDITIONS

SYLVANIA magnetic fluorescent and HID ballasts must be installed and operated under suitable environmental conditions and in accordance with the latest National Electrical Code, Underwriters Laboratory Bulletins, ANSI Specifications, CSA standards, and in accordance with OS installation instructions, where applicable. This warranty will not apply if conditions demonstrate abnormal use or stress, such as operating temperatures in excess of maximum rated temperatures, under/over voltage conditions, excessive switching cycles or operating hours, dirty or cracked sockets, or improper lamp or ballast installation.

#### WARRANTY ACTIVATION / SERVICE CLAIMS

Warranty is activated after installation. Service claims can be made by contacting 1-800-654-0089 (press \*2) to initiate the process for problem resolution.

#### REPLACEMENT OF PRODUCT

OS shall correct any defects by replacing or repairing, at OS's option, any ballast determined to be defective under the terms of this warranty. Note: Labor costs are not reimbursed by OS.

#### RETURN OF DEFECTIVE BALLAST

After contacting OS and receiving a return AUTHORIZATION NUMBER, the purchaser may be requested to promptly return the ballast at the purchaser's expense to OS after receiving instructions as to if, when and where to ship the ballast. Failure to follow this procedure shall void this warranty.

#### LIMITS OF LIABILITY

The foregoing shall constitute the sole and exclusive remedy of the purchaser and the sole and exclusive liability of OS. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED. OS will not, under any circumstance, whether as a result of breach of contract or warranty, tort, or otherwise, be liable for any costs or damages, including lost profits or revenues, incidental, special or consequential damages.

OS reserves the right to examine all failed ballasts and reserves the right to be the sole judge as to whether any ballasts are defective and covered under this warranty. This warranty does not cover lamps operated by the ballast.

**QUESTIONS?** Please call customer service at 1-800-654-0089 contact your local OSRAM SYLVANIA representative.

**VTY**

OSRAM SYLVANIA Products, Inc. (OSI) is pleased to provide the following warranty for the periods shown below. This warranty covers OSI's LED Modules and Optotronic® Power supplies or controls when installed as a system.

**OSI LED System Limited Warranty**

OSI warrants each OSI LED Module or Optotronic, Power supply or control to be free from defects in materials and workmanship, and to operate from the date of installation (or date of manufacturer if installation date is not known or available, or verifiable) for the time periods and subject to the Terms and Conditions

specified below. If an OSI LED module or an Optotronic, Power supply or control fails to operate for the specified warranty period, OSI will provide a free replacement component in accordance with the Terms and Conditions set forth below (labor not included).

**OSRAM LED SYSTEMS FOR LIGHTING WARRANTY**

| System <sup>4</sup>   | LED Module Family   | Power Supply and Control Warranty Period | LED Module Warranty Period |
|---|---|--|----------------------------|
| Optotronic, OT and OSRAM LED Lamp Modules, Power Supply or Controls | BACKlight, LINEARlight, LINEARlight Flex, (Colormix), EFFECTlight, COINlight, MARKERlight | 60 months                                | 60 Months                  |

**TERMS AND CONDITIONS**

This warranty only applies when OSI's OSRAM LED Lamp Module is properly wired and installed; is operated on a suitable power supply within the electrical values recommended by OSI; used in lighting equipment designed and approved for the application and in environmental conditions (temperature, humidity) within the normal specified operating range of the system. This warranty does not apply to any abnormal use or use in violation of any applicable standard, code or instructions for use in installations including those contained in the latest National Electrical Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), Standards for the American National Standards Institute (ANSI) or, in Canada, the Canadian Standards Association (CSA). This warranty will not apply in the event of conditions demonstrating abnormal use or stress, including under/over voltage/current conditions, excessive switching cycles or operating hours or outside the following recommended operating conditions:

- Warranty Period is based on typical 8,760 hr./yr. operation on a continuous burning cycle of 24 hours.
- Mean operating temperature for LED Module: 25°C
- Maximum operating temperature for LED Module: 65°C
- Operate at rated DC Voltage
- Mean ambient operating temperature for Optotronic, Power supplies and controls is 40°C

Replacement of OSI LED Module components with LED components of other manufacturers will void the entire warranty. Inappropriate use and selection of power supply will void the entire warranty.

**WARRANTY SERVICE CLAIMS**

Warranty claims can be serviced by calling OSI's National Customer Service & Sales Center:

**1-800-654-0089**  
**Fax: 866-632-9674**  
**Email: [warranty.service@sylvania.com](mailto:warranty.service@sylvania.com)**

If you are unsure whether a situation exists that is covered by this warranty, please contact OSI's National Customer Service & Sales Center for assistance.

**RETURN OF DEFECTIVE PRODUCT**

After contacting OSI, the purchaser/user shall promptly return the product after receiving instructions regarding if, when and where to ship product. Failure to follow this procedure shall void this warranty.

**REPLACEMENT OF PRODUCT, LIMITS OF LIABILITY**

The foregoing shall constitute the exclusive remedy of the purchaser and the sole liability of OSI for the OSI LED Lamp Module component and Optotronic, power supply or controls. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED. In no event shall OSI be liable for any other costs or damages, including lost profits or revenues, incidental, special or consequential damages.

OSI reserves the right to examine all failed OSI Module LED and Optotronic, power supply, controls and components to determine the cause of failure and patterns of usage and reserves the right to be the sole judge as to whether any such controls or components are defective and covered under this warranty.

**QUESTIONS?** Please call customer service at 1-800-654-0089 or contact your local OSRAM SYLVANIA representative.

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# Manufacturers' Cross Reference Guide

These tables are intended only as guides and may represent another lamp/ballast company's most similar product rather than an identical match. Individual manufacturer's performance values should be consulted. For a complete cross reference guide please consult our electronic catalog at [www.sylvania.com](http://www.sylvania.com).

## INCANDESCENT LAMPS

| GE                | SYLVANIA        | PHILIPS         |
|-------------------|-----------------|-----------------|
| 4C7 CARD 2        | 4C7/BL/2PK      | BC-4C7          |
| 4C7/W CD2         | 4C7/W/BL/2PK    | BC-4C7/W        |
| 10C7 TRAY         | 10C7/CL         | 10C7            |
| 10S11N            | 10S11N/CL       | 10S11N          |
| 10S11N/F          | 10S11N/IF       | 10S11N/IF       |
| 15CAC/F-CD/2-12   | 15B10/BL/2PK    | BC-15BA9C/LL    |
| ---               | 15B10C/DL/BL    | 15BA9C/4M       |
| 15S14/GR/CL       | 15S14/CL        | 15S11/14        |
| 15T10             | 15T10/CL        | BC-15T10 12/1PK |
| 20T6½DC/F         | 20T6½DC/IF      | 20T6½DC/IF      |
| 20T6½/F           | 20T6½/I         | 20T6½/IF        |
| 25CAC             | 25B10C/DL/BL    | ---             |
| ---               | 25B10/DL/BL     | BC-25B9½/LL     |
| 25CAC-CD/2-120    | 25B10C/BL/2PK   | BC25BA9C/LL     |
| 25GC 12PK         | 25G16½C         | 25G16½C/4M      |
| 25G18½/W          | 25G18½/W        | ---             |
| 25G25             | 25G25           | 25G25           |
| 25G25/L/24        | 25G25/DL/RP     | ---             |
| 25G25/W/L/24      | 25G25/DLSW/RP   | ---             |
| 25G40             | 25G40           | 25G40/4M        |
| 25G40/W           | 25G40/W         | 25G40/4MW       |
| 25S11/5C          | 25S11C/P        | 25S11/2C        |
| 25T10             | 25T10           | BC-25T10        |
| 30/100            | 30/100A21/W/RP  | 30/100A/W       |
| 30A15-130         | 30A15           | 30A15           |
| 30R20-120         | 30R20           | 30R20           |
| 40A15/CF CD2      | 40A15/CL/FAN    | BC-40S14/FAN    |
| 40A15/CF/STG CD2  | 40A15/SL        | 40A/TF          |
| 40A 48PK          | 40A             | 40A             |
| 40A/34WM          | 40A/34/SS       | 40A-34A/EW      |
| 40A/34/WMP/99     | 40A/34/SS/XL    | 40A-34A/99/EW   |
| 40CAM CD/2        | 40B10/BL/2PK    | BC-40BA91/2/LL  |
| 40CAC-CD/2-120    | 40B10C/BL/2PK   | BC-40BA9C/LL    |
| ---               | 40B10/DL/BL/2PK | 40BA91/2/4M     |
| ---               | 40B10C/DL/BL    | 40B10½/4M       |
| 40CAM/F CD/2      | 40B10/W/BL/2PK  | BC-40BA1/2/FLL  |
| 40FM/L            | 40F/CL          | BC-40F15/LL     |
| 40GC-12PK-120     | 40G16½C         | 40G16 1/2 C     |
| 40GC/W/CD/2       | 40G16½C/W/BL    | BC-40G161/2/WLL |
| 40G25/L           | 40G25           | 40G25           |
| 40G25/L/24        | 40G25/DL/RP     | ---             |
| 40G25/W/L/24      | 40G25/DLSW/RP   | 40G25/W         |
| 40G25/W/L         | 40G25/W         | 40G25/W         |
| 40G25/W/L         | 40G30/W         | 40G25/W         |
| 40G40/CL          | 40G40           | 40G40/4M        |
| 40G40/W           | 40G40/W         | 40G40/4MW       |
| 40S11N/1CARD      | 40S11N/BL       | BC40S11/N TP    |
| 40S11N/1/F        | 40S11N/CF       | 40S11N/IF       |
| 40T10/F           | 40T10/IF        | BC-40T10/IF     |
| 50/150 12PK       | 50/150A21/W/RP  | 50/150A/W       |
| 50/150 12PK       | 50/150/PS25     | 50/150T/DL      |
| 50A/RS/CVG 24PK   | 50A/RS/SL       | 50A/RS/TF       |
| 60A               | 60A             | 60A             |
| 60A/52WM          | 60A/52/SS       | 60A-52A/EW      |
| 60A/52/WMP/98     | 60A/52/SS/XL    | ---             |
| 60A21/B           | 60A/CB          | 60A19/B         |
| 60A21/G           | 60A/CG          | 60A19/G         |
| 60A/CL 24PK       | 60A/CL          | 60A/CL          |
| 60A/W/LL-24PK-120 | 60A/DLSW/2PK/RP | 60A/WL          |

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# Manufacturers' Cross Reference (continued)

## INCANDESCENT LAMPS

| GE                | SYLVANIA         | PHILIPS           |
|-------------------|------------------|-------------------|
| 60A/PL 6PK        | 60A/GRO          | 60A/AGRO          |
| 60A/CVG 24PK      | 60A/SL           | 60A/TF            |
| 60A/GD 24PK       | 60A/RS           | ---               |
| 60A/S             | 60A/RS/XL        | ---               |
| 60A/W 48PK        | 60A/W/4RP        | 60A/W/TP          |
| 60A/Y 24PK        | 60A/Y/RP         | 60A/Y 120-130V    |
| 69A21/60WM/TS     | 60A19/TS/8M/SS   | K60A19/TS/EW      |
| ---               | 60A21/TS         | K60A19/TS/EW      |
| 60CAM CD/2        | 60B10/BL/2PK     | BC-60BA9/2/LL     |
| 60CAC CD/2 6PK    | 60B10C/BL/2PK    | BC-60BA9C/LL      |
| ---               | 60B10/DL/BL/2PK  | 60BA91/24M        |
| ---               | 60B10C/DL/BL/2PK | 60BA9C/4M         |
| ---               | 60B10C/F/BL/2PK  | BC-60BA9 1/2/FLL  |
| 60CAC/F CD/2      | 60B10C/W/BL/2PK  | ---               |
| 60CAM/F CD/2      | 60B10/W/BL/2PK   | BC-60BA9C/FLL     |
| ---               | 60F/BL           | BC-60F15/LL       |
| 40FM/AU CD/2 6 PK | 60F/IC/BL/2PK    | BC60F15/LL        |
| 60GC              | 60G16½C/BL       | ---               |
| 60G25 6PK 120V    | 60G25/RP         | 60G25 120V        |
| ---               | 60G25/DL/RP      | 60G25             |
| ---               | 60G25/DLSW/RP    | 60G25/W           |
| 60G30/W           | 60G30/W          | ---               |
| 60G40 6PK         | 60G40/RP         | 60G40/4M          |
| 60G40/W 6PK       | 60G40/W          | 60G40/4MW         |
| ---               | 60K19/DR         | 60K19/DL          |
| 60T10/F 24PK      | 60T10/CF         | 60T10/64/IF       |
| 65R30/FL/LL 6PK   | 65BR30/DL/FL/RP  | 65BR30/FL/LL55    |
| ---               | 65BR30/FL        | 65BR30/FL55       |
| 75R30/FL/65WM     | 65BR30/FL/SS     | 65BR30/FL55       |
| 65R30/SP/LL 6PK   | 65BR30/SP/RP     | 65BR30/SP20       |
| 75R30/SP/65WM     | 65BR30/SP/SS     | 65BR30/SP20       |
| 75A               | 75A              | 75A               |
| 75A/CL 24PK       | 75A/CL           | 75A/CL            |
| 75A/RS            | 75A19/RS         | 75A/RS/VS         |
| 75A/RT 6PK        | 75A21/RS/SL      | 75A/RH/TF         |
| 75A/RS/CVG 24PK   | 75A21/SL/RP      | 75A/RH/TF         |
| 75A/67WM          | 75A/67/SS        | 75A-67A/EW        |
| 75A/67WMP/99      | 75A/67/SS/XL     | 75A-67A/99/EW 120 |
| 75R30/A           | 75BR30/A/FL/RP   | ---               |
| 75R30/B           | 75BR30/B/FL/RP   | 75BR30/PK         |
| 75R30/G           | 75BR30/G/FL/RP   | ---               |
| 75R30/PL/1 6PK    | 75BR30/GRO/FL/RP | 75BR30/AGRO       |
| 75R30/PK          | 75BR30/PK/FL/RP  | 75BR30/PK         |
| 75R30/SP-1 6PK    | 75BR30/SP/RP     | ---               |
| 75R30/Y           | 75BR30/Y/FL/RP   | ---               |
| 75R/FL/1-6PK-120  | 75BR/FL/RP       | ---               |
| 75ER30            | 75ER30           | 75ER30            |
| ---               | 75K19/DR         | 75K19/DL          |
| 75R20 6PK         | 75R20/RP         | 75R20             |
| ---               | 75R30/FL/SL      | 75BR30/FL/TF      |
| 100A21/90WM/TS 12 | 90A19/TS/8M/SS   | K90A19/TS/EW      |
| 100A21/SBIF 60 PK | 100A21/1SB/IF    | 100A/1SBIF        |
| 100A              | 100A             | 100A              |
| ---               | 100A/DLSW/2PK/RP | 100A/W            |
| 100A/RS 12PK      | 100A19/RS        | 100A/RS/VS        |
| 100A21            | 100A21           | 100A21            |
| 100A/RS/CVG       | 100A21/RS/SL     | 100A/RS/TF        |
| 100A23/VS 24PK    | 100A21/VS        | 100A/RS/VS        |
| 100A23/20         | 100A23/20        | 100A23/20         |
| 100A/90WM         | 100A/90/SS       | 100A-90A/EW       |
| 100A/90WMP/98     | 100A/90/SS/XL    | 100-90A/99EW      |
| 100A/CL 24PK      | 100A/CL          | 100A/CL           |
| 100R/FL-120       | 100BR/FL         | 120BR/FL60        |

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## Manufacturers' Cross Reference Guide (continued)

### INCANDESCENT LAMPS

| GE               | SYLVANIA         | PHILIPS      |
|------------------|------------------|--------------|
| 100G40           | 100G40           | 100G40/4M    |
| 100G40/W/L       | 100G40/W         | 100G40/4MW   |
| 120R40/FL/MI-6PK | 120BR/FL         | 120BR/FL60   |
| 120R40/FL/LL-6PK | 120BR/DL/FL/RP   | ---          |
| 120R40/SP/MI-6PK | 120BR/SP         | 120BR/SP20   |
| 120ER40          | 120ER40          | 120ER40      |
| 125R40           | 125BR40          | 125R40/1     |
| 150A             | 150A21           | 150A         |
| 150A/135WM       | 150A21/135/SS    | 150A-135A/EW |
| 150Q21/99/IF     | 150A21/99/XL     | 150A/99      |
| 150A/CL 12PK     | 150A21/CL        | 150A/CL      |
| 150R40/PL-1 6PK  | 150BR/GRO        | 150BR/AGRO   |
| 150G40/W         | 150G40/W/RP      | 150G40/W     |
| 200A 12PK        | 200A21           | 200A (A23)   |
| 200/99           | 200CL/99/XL      | 200/99       |
| 200/IF           | 200PS/IF         | 200/IF       |
| 200/99           | 200PS/CL/99/XL   | 200/99       |
| 200/99IF         | 200PS/IF/99/XL   | 200/99IF     |
| 250R40/1         | 250BR40          | 250R40/1     |
| ---              | 250KBR38/FL      | K250PAR38/FL |
| ---              | 250KR38/SP       | K250PAR38/SP |
| 300M/99          | 300/AX/CL        | 300/2        |
| 300M/99IF        | 300/AX/IF        | 300/2IF      |
| 300R/FL          | 300BR/FL         | 300R/FL      |
| 300M/99/IF       | 300M/99/IF/XL    | 300M/99IF    |
| 300M             | 300/M/CL         | 300M         |
| 300PAR56/MFL     | 300PAR56/MFL     | 300PAR56/MFL |
| 300PAR56/NSP     | 300PAR56/NSP     | 300PAR56/NSP |
| 300PAR56/WFL     | 300PAR56/WFL     | 300PAR56/WFL |
| 300/99IF         | 300PS35/99/IF/XL | 300/99IF     |

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Manufacturers' Cross Reference (continued)

HALOGEN LAMPS

| GE                 | SYLVANIA                  | PHILIPS               | OSRAM |
|--------------------|---------------------------|-----------------------|-------|
|                    | <b>HALOGEN BT15</b>       |                       |       |
| ---                | 60BT15/HAL/CL/BL          | BC60BT15/HAL/CL       | ---   |
| ---                | 60BT15/HAL/W/BL           | BC60BT15/HAL/W        | ---   |
| ---                | 75BT15/HAL/W/BL           | BC75BT15/HAL/W        | ---   |
| ---                | 100BT15/HAL/W/BL          | BC100BT15/HAL/W       | ---   |
| ---                | 150BT15/HAL/W/BL          | BC150BT15/HAL/W       | ---   |
|                    | <b>CAPSYLITE MIDBREAK</b> |                       |       |
| 50A/HAL            | 52A/CAP                   | ---                   | ---   |
| 60A/HAL            | 60A/HAL/DAY               | ---                   | ---   |
| 60A/HAL/CL         | 60A/HAL/DAY/CL            | ---                   | ---   |
| 75A/HAL            | 75A/HAL/DAY               | ---                   | ---   |
| 90A/HAL            | 100A/HAL/DAY              | ---                   | ---   |
|                    | <b>CAPSYLITE PAR</b>      |                       |       |
| 60PAR16/H/SP10     | 60PAR16/CAP/NSP10         | 60PAR16/HAL/NSP10     | ---   |
| 60PAR16/H/FL30     | 60PAR16/CAP/NFL30         | 60PAR16/HAL/NFL27     | ---   |
| 75PAR16/H/SP10     | 75PAR16/CAP/NSP10         | ---                   | ---   |
| 75PAR16/H/FL30     | 75PAR16/CAP/NFL30         | ---                   | ---   |
| 50PAR20/H/FL25     | 50PAR20/HAL/SPL/NFL30     | 50PAR20/HAL/NFL30     | ---   |
| 50PAR20/H/SP10     | 50PAR20/HAL/SPL/NSP10     | 50PAR20/HAL/NSP9      | ---   |
| 50PAR30/H/FL25     | 50PAR30/CAP/SPL/NFL25     | 50PAR30/HAL/NFL30     | ---   |
| 50PAR30/H/SP10     | 50PAR30/CAP/SPL/NSP9      | 50PAR30S/HAL/NSP10    | ---   |
| 50PAR30/H/FL35     | 50PAR30/HAL/SPL/FL40      | 50PAR30S/HAL/FL40     | ---   |
| 50PAR30L/H/FL40    | 50PAR30LN/CAP/SPL/NFL30   | 50PAR30L/HAL/NFL30    | ---   |
| 50PAR30L/H/SP10    | 50PAR30LN/CAP/SPL/NSP9    | 50PAR30L/HAL/NSP9     | ---   |
| 50PAR30L/H/WFL     | 50PAR30LN/CAP/SPL/WFL50   | 50PAR30L/HAL/WFL60    | ---   |
| 60PAR30/H/NSP9     | 60PAR30/CAP/SPL/NSP9      | 60PAR30S/HAL/NSP10    | ---   |
| 60PAR30/H/FL25     | 60PAR30/CAP/SPL/NFL25     | 60PAR30S/HAL/NFL30    | ---   |
| 75PAR30/H/SP10     | 75PAR30/CAP/SPL/NSP9      | 75PAR30S/HAL/SP10     | ---   |
| 75PAR30/H/FL25     | 75PAR30/CAP/SPL/NFL25     | 75PAR30S/HAL/NFL30    | ---   |
| 75PAR20/H/FL35     | 75PAR30/CAP/SPL/FL40      | 75PAR30S/HAL/FL40     | ---   |
| 75PAR30L/H/SP10    | 75PAR30LN/CAP/SPL/NSP9    | 75PAR30L/HAL/NSP9     | ---   |
| 75PAR30L/H/FL25    | 75PAR30LN/CAP/SPL/NFL25   | 75PAR30L/HAL/NFL30    | ---   |
| 75PAR30L/H/WFL     | 75PAR30LN/CAP/SPL/WFL50   | 75PAR30L/HAL/FL40     | ---   |
| 35PAR36/H/SP8      | 36PAR36CAPNSP13           | ---                   | ---   |
| 35PAR36/H/SP5      | 36PAR36CAPVNSP5           | ---                   | ---   |
| 35PAR36/H/FL30     | 36PAR36CAPWFL             | ---                   | ---   |
| 50PAR36/H/SP5      | 50PAR36CAPNSP6            | ---                   | ---   |
| 45PAR/H/SP10       | 45PAR/CAP/SPL/SP9         | ---                   | ---   |
| ---                | 45PAR/CAP/SPL/WSP12       | 45PAR38/HAL/SP12/LL   | ---   |
| 45PAR/H/FL25       | 45PAR/CAP/SPL/FL30        | 45PAR38/HAL/FL28/LL   | ---   |
| 60PAR/H/SP10       | 60PAR/CAP/SPL/SP9         | 60PAR38/HAL/NSP10/WLL | ---   |
| ---                | 60PAR/CAP/SPL/WSP12       | 60PAR38/HAL/SP12/WLL  | ---   |
| 60PAR/H/FL25       | 60PAR/CAP/SPL/NFL25       | ---                   | ---   |
| ---                | 60PAR/CAP/SPL/FL30        | 60PAR38/HAL/FL28/WLL  | ---   |
| 75PAR/H/SP9        | 75PAR/CAP/SPL/SP9         | 75PAR38/HAL/SP10/WLL  | ---   |
| 75PAR/H/FL25       | 75PAR/CAP/SPL/FL30        | 75PAR38/H/FL28/WLL    | ---   |
| 90PAR/H/SP10       | 90PAR/CAP/SPL/SP9         | ---                   | ---   |
| ---                | 90PAR/CAP/SPL/WSP12       | 90PAR38/HAL/SP12/LL   | ---   |
| 90PAR/H/FL25       | 90PAR/CAP/SPL/FL30        | 90PAR38/HAL/FL28/LL   | ---   |
| 90PAR/H/WFL        | 90PAR/CAP/SPL/WFL50       | 90PAR38/HAL/WFL60/WLL | ---   |
| 120PAR/H/SP9       | 120PAR/CAP/SPL/SP9        | ---                   | ---   |
| 120PAR/H/FL30      | 120PAR/CAP/SPL/FL30       | ---                   | ---   |
| Q250PAR/SP10       | 250PARCAPSPLSP10          | ---                   | ---   |
| Q250PAR/FL30       | 250PARCAPSPLFL30          | ---                   | ---   |
| Q500PAR56MFL       | 500PAR56QMFL              | 500PAR56Q/MFL         | ---   |
| Q500PAR56NSP       | 500PAR56QNSP              | 500PAR56Q/NSP         | ---   |
| Q500PAR56WFL       | 500PAR56QWFL              | 500PAR56Q/WFL         | ---   |
| Q1000PAR64MFL      | 1000PAR64QMFL             | 1000PAR64Q/MFL        | ---   |
| Q1000PAR64NSP      | 1000PAR64QNSP             | 1000PAR64Q/NSP        | ---   |
| Q1000PAR64WFL      | 1000PAR64QWFL             | 1000PAR64Q/WFL        | ---   |
|                    | <b>CAPSYLITE IR PAR</b>   |                       |       |
| 45PAR30/HIR/SP9XL  | 50PAR30/CAP/IR/NSP9 130V  | ---                   | ---   |
| 45PAR30/HIR/FL25XL | 50PAR30/CAP/IR/NFL25 130V | ---                   | ---   |

CROSS REFERENCE

## Manufacturers' Cross Reference Guide (continued)

## HALOGEN LAMPS

| GE                 | SYLVANIA                            | PHILIPS            | OSRAM     |
|--------------------|-------------------------------------|--------------------|-----------|
|                    | <b>CAPSYLITE IR PAR (continued)</b> |                    |           |
| 45PAR30/HIR/FL35XL | 50PAR30/CAP/IR/FL40 130V            | ---                | ---       |
| 50PAR30/HIR/SP9    | 50PAR30/CAP/IR/NSP9                 | 50PAR30S/IRC/NSP10 | ---       |
| 50PAR30/HIR/FL25   | 50PAR30/CAP/IR/NFL25                | 50PAR30S/IRC/NFL30 | ---       |
| 50PAR30/HIR/FL35   | 50PAR30/CAP/IR/FL40                 | 50PAR30S/IRC/FL40  | ---       |
| 45PAR/HIR/SP12/XL  | 50PAR/CAP/IR/SP10 130V              | ---                | ---       |
| 45PAR/HIR/FL40/XL  | 50PAR/CAP/IR/NFL25 130V             | ---                | ---       |
| 50PAR/HIR/SP9      | 50PAR/CAP/IR/SP10                   | 50PAR38/IRC/SP12   | ---       |
| 50PAR/HIR/FL25     | 50PAR/CAP/IR/NFL25                  | 50PAR38/IRC/FL25   | ---       |
| 55PAR/HIR/SP12/XL  | 55PAR38/CAP/IR/XP/SP9               | ---                | ---       |
| 55PAR/HIR/FL40/XL  | 55PAR38/CAP/IR/XP/FL30              | ---                | ---       |
| 60PAR/HIR/SP10     | 60PAR/CAP/IR/SP10                   | 60PAR38/IRC/SP10   | ---       |
| 60PAR/HIR/SP12     | 60PAR/CAP/IR/WSP12                  | 60PAR38/IRC/WSP12  | ---       |
| ---                | 60PAR/CAP/IR/NFL25                  | 60PAR38/IRC/FL25   | ---       |
| 60PAR/HIR/FL30     | 60PAR/CAP/IR/FL30                   | ---                | ---       |
| 80PAR/HIR/SP10     | 80PAR/CAP/IR/SP10                   | ---                | ---       |
| 80PAR/HIR/FL25     | 80PAR/CAP/IR/FL25                   | ---                | ---       |
| 100PAR/HIR/SP10    | 100PAR/CAP/IR/SP10                  | 100PAR38/IRC/SP10  | ---       |
| 100PAR/HIR/FL25    | 100PAR/CAP/IR/NFL25                 | 100PAR38/IRC/FL25  | ---       |
| 100PAR/HIR/FL40    | 100PAR/CAP/IR/FL40                  | ---                | ---       |
|                    | <b>TRU-AIM MR11</b>                 |                    |           |
| Q20MR11/SP15(FTC)  | 20MR11/SP10/FTB                     | 20MRC11/SP10       | 46890SP   |
| Q20MR11/NFL30(FTD) | 20MR11/FL35/FTD                     | 20MRC11/FL30       | 46890WFL  |
| Q35MR11/NFL30(FTH) | 35MR11/FL40/FTH                     | ---                | 46892WFL  |
| Q35MR11/SP20(FTF)  | 35MR11/SP10/FTF                     | ---                | 46892SP   |
|                    | <b>STANDARD TRU-AIM MR16</b>        |                    |           |
| Q20MR16/SP         | 20MR16/NSP8/ESX                     | 20MRC16/SP10       | 41860SP   |
| Q20MR16/FL         | 20MR16/FL40/BAB                     | 20MRC16/FL36       | 41860WFL  |
| Q35MR16CG/FL       | 35MR16/FL40                         | ---                | 41865WFL  |
| Q50MR16/SP         | 50MR16/NSP12/EXT                    | 50MRC16/SP10       | 41870SP   |
| ---                | 50MR16/NFL25/EXZ                    | 50MRC16/NFL24      | ---       |
| Q50MR16/FL         | 50MR16/FL40/EXN                     | 50MRC16/FL38       | 41870WFL  |
| ---                | 65MR16/NSP10/FPA                    | 75MR16/SP10-EYF    | ---       |
| ---                | 65MR16/FL40/FPB                     | 75MR16/FL36-EYC    | ---       |
|                    | <b>TRU-AIM BRILLIANT MR16</b>       |                    |           |
| ---                | 20MR16/B/FL35/C                     | ---                | 41861WFL  |
| ---                | 50MR16/B/NSP11/C/EXT                | 50MRC16/SP12/A     | ---       |
| ---                | 50MR16/B/NFL25/EXZ                  | 50MRC16/NFL24/A    | ---       |
| ---                | 50MR16/B/FL35/C/EXN                 | 50MRC16/FL36       | 41871WFL  |
|                    | <b>TRU-AIM TITAN MR16</b>           |                    |           |
| Q20MR16/C/VNSP7    | 20MR16/T/NSP10/ESX                  | 20MRC16/CC/SP10    | 46860SP   |
| Q20MR16/C/FL40     | 20MR16/T/FL40/BAB                   | 20MRC16/CC/FL38    | 46860WFL  |
| ---                | 35MR16/T/NSP10/FRB                  | ---                | 46865SP   |
| Q35MR16/C/SP20     | 35MR16/T/NFL25                      | ---                | 46865FL   |
| Q35MR16/C/FL40     | 35MR16/T/FL40/FMW                   | ---                | 46865WFL  |
| Q50MR16/C/NSP15    | 50MR16/T/NSP10/EXT                  | 50MRC16/CC/SP10    | 46870SP   |
| Q50MR16/C/NFL25    | 50MR16/T/NFL25/EXZ                  | 50MRC16/CC/NFL24   | 46870FL   |
| Q50MR16/C/FL40     | 50MR16/T/FL40/EXN                   | 50MRC16/CC/FL38    | 46870WFL  |
| Q50MR16/C/WFL55    | 50MR16/T/VWFL60/FNV                 | ---                | 46870VWFL |
| Q71MR16/C/NSP15    | 65MR16/T/NSP10/FPA                  | ---                | ---       |
| Q71MR16/C/NFL25    | 65MR16/T/NFL25                      | ---                | ---       |
| Q71MR16/C/FL40     | 65MR16/T/FL40/FPB                   | ---                | ---       |
|                    | <b>TRU-AIM IR MR16</b>              |                    |           |
| ---                | 20MR16/IR/SP10/C                    | 20MRC16/IRC/SP8    | 48860SP   |
| ---                | 20MR16/IR/NFL25/C                   | ---                | 48860FL   |
| ---                | 20MR16/IR/FL40/C                    | 20MRC16/IRC/FL36   | 48860WFL  |
| ---                | 20MR16/IR/WFL60/C                   | ---                | 48860VWFL |
| Q37MR16/HIR/CG10   | 37MR16/IR/SP10/C                    | 35MRC16/IRC/SP8    | 48865SP   |
| Q37MR16/HIR/CG25   | 37MR16/IR/NFL25/C                   | 35MRC16/IRC/NFL24  | 48865FL   |
| Q37MR16/HIR/CG40   | 37MR16/IR/FL40/C                    | 35MRC16/IRC/FL36   | 48865WFL  |
| ---                | 37MR16/IR/WFL60/C                   | 35MRC16/IRC/WFL60  | 48865VWFL |
| Q50MR16/HIR/CG10   | 50MR16/IR/SP10/C                    | 45MRC16/IRC/SP8    | 48870SP   |
| Q50MR16/HIR/CG25   | 50MR16/IR/NFL25/C                   | 45MRC16/IRC/NFL24  | 48870FL   |

Manufacturers' Cross Reference (continued)

HALOGEN LAMPS

| GE               | SYLVANIA                           | PHILIPS           | OSRAM              |
|------------------|------------------------------------|-------------------|--------------------|
|                  | <b>TRU-AIM IR MR16 (continued)</b> |                   |                    |
| Q50MR16/HIR/CG40 | 50MR16/IR/FL40/C                   | 45MRC16/IRC/FL36  | 48870WFL           |
| ---              | 50MR16/IR/WFL60/C                  | 45MRC16/IRC/WFL60 | 48870WWFL          |
|                  | <b>SINGLE ENDED</b>                |                   |                    |
| ---              | 100Q/CL/DC/64485                   | ---               | 64485              |
| Q100CL/DC        | 100Q/CL/DC/ESR                     | 100Q/CL/DC ESR    | ---                |
| Q100CL/MC        | 100Q/CL/MC/ESN                     | 100Q/CL ESN       | ---                |
| Q100DC           | 100Q/DC/ETD                        | ---               | ---                |
| Q150CL/DC/2V     | 150Q/CL/DC/1/ESP                   | ---               | ---                |
| Q150CL/DC        | 150Q/CL/DC/ETC                     | 150Q/CL/DC ETC    | ---                |
| Q150CL/MC        | 150Q/CL/MC/2/ETG                   | 150Q/CL           | ---                |
| Q150CL/MC/2V     | 150Q/CL/MC/ESL                     | ---               | ---                |
| Q150DC           | 150Q/DC/ETF                        | 150Q/DC           | ---                |
| Q150MC           | 150Q/MC/ETH                        | 150Q ETH          | ---                |
| Q250CL/DC        | 250Q/CL/DC/ESS                     | 250Q/CL/DC ESS    | ---                |
| Q250CL/MC        | 250Q/CL/MC/EHT                     | 250Q/CL EHT       | ---                |
| Q250DC           | 250Q/DC/ETB                        | ---               | ---                |
| Q250MC           | 250Q/MC/ESM                        | ---               | ---                |
|                  | <b>DOUBLE ENDED</b>                |                   |                    |
| Q100T3/CL/CD     | 100T3Q/CL                          | BC100T3Q/CL/TP    | ---                |
| Q150T4/CL        | 150T3Q/S/CL                        | BC150T3Q/CL/TP    | ---                |
| Q150T3/117/CL/CD | 150T3Q/CL                          | ---               | ---                |
| Q300T3/CL        | 300T3Q/CL                          | 300T3Q/P/CL       | ---                |
| Q500T3/CL        | 500T3Q/CL                          | 500T3Q/P/CL       | ---                |
|                  | <b>BIPIN</b>                       |                   |                    |
| Q5T3/CL          | 5T3Q/CL                            | 5W/12V/CAPSULE    | 64405S             |
| Q10T3/CL         | 10T3Q/CL                           | ---               | 64415              |
| Q20T3/CL/CD      | 20T3Q/CL                           | ---               | 64425              |
| Q50T3/CL         | 50T4Q/CL                           | 50W/12V/CAPSULE   | 64440              |
| Q75T4/CL/CD      | 75T4Q/CL/RP                        | ---               | ---                |
| ---              | 10T3Q/CL/AX                        | 10W/12V/CAPSULE   | 64415S             |
| ---              | 20T3Q/CL/AX                        | 20W/12V/CAPSULE   | 64425S             |
| Q35T3/CL         | 35T4Q/CL/AX                        | 35W/12V/CAPSULE   | 64432S             |
| ---              | 50T4Q/CL/AX                        | ---               | 64440S             |
| ---              | 75T4Q/CL/AX                        | ---               | 64450S             |
| ---              | 90T4Q/CL/AX                        | ---               | 64458S             |
|                  | <b>AR 70 &amp; AR111</b>           |                   |                    |
| ---              | 20AR70/SP8                         | 15ALR18/NSP6-GBA  | 41970 SP USA       |
| ---              | 20AR70/FL25                        | ---               | 41970 FL USA       |
| ---              | 50AR70/SP8                         | 50ALR18/SP10-GBJ  | 41990 SP USA       |
| ---              | 50AR70/FL25                        | 50ALR18/NFL22-GBK | 41990 FL USA       |
| ---              | 35AR111/SSP4                       | ---               | 41830 SSP          |
| ---              | 50AR111SSP4                        | ---               | 41835 NSP 12V 50W  |
| ---              | 50AR111/SP8                        | ---               | 41835 SP 12V 50W   |
| ---              | 50AR111/FL25                       | ---               | 41835 FL 12V 50W   |
| ---              | 75AR111/SP8                        | ---               | 41840 SP 12V 75W   |
| ---              | 75AR111/FL25                       | ---               | 41840 FL 12V 75W   |
| ---              | 75AR111/WFL45                      | ---               | 41840 WFL 12V 75W  |
| ---              | 100AR111/SP8                       | ---               | 41850 SP 12V 100W  |
| ---              | 100AR111/FL25                      | ---               | 41850 FL 12V 100W  |
| ---              | 100AR111/WFL45                     | ---               | 41850 WFL 12V 100W |

## Manufacturers' Cross Reference Guide (continued)

## HIGH INTENSITY DISCHARGE LAMPS - METAL HALIDE

| GE                    | SYLVANIA                    | PHILIPS               |
|-----------------------|-----------------------------|-----------------------|
|                       | <b>METALARC CERAMIC</b>     |                       |
| CMH39/TC/U/830/G8.5   | MC39TC/U/G8.5/830           | CDM35/TC/830          |
| CMH70/TC/U/830/G8.5   | MC70TC/U/G8.5/830           | CDM70/TC/830          |
| CMH39/T/U/830/G12     | MC39T6/U/G12/830            | CDM35/T6/830          |
| CMH70UT830G12         | MC70T6/U/G12/830            | CDM70/T6/830          |
| CMH150TU830G12        | MC150T7.5/U/G12/830         | CDM150/T6/830         |
| CMH70TU942G12         | MC70T6/U/G12/940            | CDM70T6942            |
| CMH150TU942G12        | MC150T6/U/G12/940           | CDM150T6942           |
| CMH70/TD/830/RX7S     | MC70T6/DE/830               | CDM70/TD/830          |
| CMH150/TD/830/RX7S    | MC150T7.5/DE/830            | CDM150/TD/830         |
| CMH70/U/830/MED       | MCP70/U/MED/830             | MHC70/U/MP/3K/ALTO    |
| CMH70/C/U/830/MED     | MCP70/C/U/MED/830           | MHC70/C/U/MP/3K/ALTO  |
| CMH100/U/830/MED      | MCP100/U/MED/830            | MHC100/U/MP/3K/ALTO   |
| CMH100/C/U/830/MED    | MCP100/C/U/MED/830          | MHC100/C/U/MP/3K/ALTO |
| ---                   | MCP150/U/MED/830            | MHC150/U/MP/3K/ALTO   |
| ---                   | MCP150/C/U/MED/830          | MHC150/C/U/MP/3K/ALTO |
| CMH39/PAR20/SP10      | MCP39PAR20/U/830/SP         | CDM35/PAR20/M/SP      |
| CMH39/PAR20/FL25      | MCP39PAR20/U/830/FL         | CDM35PAR20MFL         |
| CMH39/PAR30L/830/SP10 | MCP39PAR30LN/U/830/SP       | CDM35/PAR30L/M/SP     |
| CMH39/PAR30L/830/FL25 | MCP39PAR30LN/U/830/FL       | CDM35/PAR30L/M/FL     |
| CMH70/U/PAR30L/830SP  | MCP70PAR30LN/U/830/SP       | CDMP70/PAR30L/M/SP    |
| CMH70/U/PAR30L/830FL  | MCP70PAR30LN/U/830/FL       | CDM70/PAR30L/M/FL     |
| CMH70/PAR38/830SP15   | MCP70PAR38/U/SP/830/ECO     | CDM70/PAR38/SP/3K     |
| CMH70/PAR38/830/FL25  | MCP70PAR38/U/FL/830/ECO     | CDM70/PAR38/FL/3K     |
| CMH70/PAR38/830/WF    | MCP70PAR38/U/VWFL/830/ECO   | CDM70/PAR38/WFL/3K    |
| CMH100/PAR38/830/S15  | MCP100PAR38/U/SP/830/ECO    | CDM100/PAR38/SP/3K    |
| CMH100/PAR38/830/F25  | MCP100PAR38/U/FL/830/ECO    | CDM100/PAR38/FL/3K    |
| CMH100/PAR38/830/W    | MCP100PAR38/U/VWFL/830/ECO  | CDM100/PAR38/WFL/3K   |
| ---                   | MCP150PAR38/U/SP/830/ECO    | ---                   |
| ---                   | MCP150PAR38/U/FL/830/ECO    | ---                   |
| ---                   | MCP150PAR38/U/VWFL/830/ECO  | ---                   |
| ---                   | MCP250/PS/BU-ONLY/940       | ---                   |
| ---                   | MCP250/C/PS/BU-ONLY/940     | ---                   |
|                       | <b>METALARC PULSE START</b> |                       |
| MXR50/U/MED/O         | MP50/U/MED                  | ---                   |
| MXR50/C/U/MED/O       | MP50/C/U/MED                | ---                   |
| MXR70/U/MED/O         | MP70/U/MED                  | ---                   |
| MXR70/C/U/MED/O       | MP70/C/U/MED                | ---                   |
| MXR100/U/MED/O        | MP100/U/MED                 | ---                   |
| MXR100/C/U/MED/O      | MP100/C/U/MED               | ---                   |
| MXR150/U/MED/O        | MP150/U/MED                 | ---                   |
| MXR150/C/U/MED/O      | MP150/C/U/MED               | ---                   |
| MVR175CVBUMEDPA       | MS175/C/PS/BU-ONLY/MED      | ---                   |
| MVR175VBUBUPA         | MS175/PS/BU-ONLY/MED        | ---                   |
| MVR175/VBU/PA         | MS175/PS/BU-ONLY            | MS175/BU/PS           |
| MVR175/C/VBU/PA       | MS175/C/PS/BU-ONLY          | ---                   |
| ---                   | MS200/PS/BU-ONLY            | ---                   |
| ---                   | MS200/C/PS/BU-ONLY          | ---                   |
| MVR250/VBU/PA         | MS250/PS/BU-ONLY            | MS250/BU/PS           |
| MVR250/C/VBU/PA       | MS250/C/PS/BU-ONLY          | ---                   |
| ---                   | MP250/PS/BU-ONLY            | ---                   |
| ---                   | MP250/C/PS/BU-ONLY          | ---                   |
| MVR320VBU/XHO/PA      | MS320/PS/BU-HOR             | MS320/U/PS            |
| MVR320/VBU/HO/PA      | MS320/PS/BU-HOR             | MS320/U/PS            |
| MVR320/C/VBU/XHOPA    | MS320/C/PS/BU-HOR           | MS320/C/U/PS          |
| MVR320/C/VBU/HOPA     | MS320/C/PS/BU-HOR           | MS320/C/U/PS          |
| MPR320/C/VBUXHOPA     | MP320/350/C/PS/BU-ONLY/BT28 | ---                   |
| MPR350/C/VBU/PA       | MP320/350/C/PS/BU-ONLY/BT28 | ---                   |
| MPR320/VBU/XHOPA      | MP320/350/PS/BU-ONLY/BT28   | ---                   |
| MPR400/VBU/SHO/PA     | MP350/400/PS/BU-ONLY        | MP400/BU/PS           |
| MPR400/C/VBU/XHOPA    | MP350/400/C/PS/BU-ONLY      | MP400/C/BU/PS         |
| MPR350C/VBU/PA        | MP350/400/C/PS/BU-ONLY      | MP400/C/BU/PS         |

**Manufacturers' Cross Reference (continued)**
**HIGH INTENSITY DISCHARGE LAMPS - METAL HALIDE**

| GE                  | SYLVANIA   | PHILIPS           |
|---------------------|--|-------------------|
|                     | <b>METALARC PULSE START (continued)</b>          |                   |
| MVR400VBUHOPA       | MS400/PS/BU-ONLY                                 | MS400/BU/PS       |
| MVR400/C/VBU/PA     | MS400/C/PS/BU-ONLY                               | MS400/C/BU/PS     |
| MVR400CVBUHOPA      | MS400/C/PS/BU-ONLY                               | MS400/C/BU/PS     |
| MVR750/VBU/PA       | MS750/PS/BU-HOR/BT37                             | ---               |
| MVR750/C/VBU/PA     | MS750/C/PS/BU-HOR/BT37                           | ---               |
| ---                 | M1000/PS/U/BT37                                  | MS1000/BU/BT37/PS |
|                     | <b>METALARC SUPER SAVER</b>                      |                   |
| MVR150/U/WM         | M150/SS/U/BT-28                                  | ---               |
| MVR360/VBU/STB/WM   | MS360/SS/BU-HOR                                  | MS360/BU/EW       |
| MVR360/C/VBU/STB/WM | MS360/C/SS/BU-HOR                                | MS360/C/BU/EW     |
| MPR360/VBU/WM/O     | MSP360/SS/BU-ONLY                                | MP360BU/EW        |
| ---                 | MS360/SS/BU-ONLY/ED28                            | ---               |
|                     | <b>METALARC SUPER</b>                            |                   |
| MVR175/HOR          | MS175/HOR  | MS175/HOR         |
| MVR175/C/HOR        | MS175/C/HOR                                      | MS175/C/HOR       |
| MVR250/HOR          | MS250/HOR  | MS250/HOR         |
| MVR250/C/HOR        | MS250/C/HOR                                      | MS250/C/HOR       |
| MVR400/VBU          | MS400/BU-ONLY                                    | MS400/BU          |
| MVR400/C/VBU        | MS400/C/BU-ONLY                                  | MS400/C/BU        |
| MVR400/SP30/VBU     | MS400/3K/BU-ONLY                                 | MS400/3K/BU       |
| MVR400/VBU/BT28     | MS400/BU-ONLY/BT28                               | MS400/BU/ED28     |
| MVR400/HOR/BT28     | MS400/HOR/BT28                                   | MH400/U/ED28      |
| MVR400/HOR/MOG      | MS400/HOR  | MS400/HOR         |
| MVR400/C/HOR/MOG    | MS400/C/HOR                                      | MS400/C/HOR       |
| MVR1000/VBU         | MS1000/BU-ONLY                                   | MS1000/BU         |
| MVR1000/C/VBU       | MS1000/C/BU-ONLY                                 | MS1000/C/BU       |
| ---                 | MS1000/BD-ONLY                                   | MS1000/BD         |
|                     | <b>METALARC STANDARD &amp; METALARC PRO-TECH</b> |                   |
| MVR175/U/MED        | M175/U/MED                                       | MH175/U/M         |
| MVR175/C/U/MED      | M175/C/U/MED                                     | MH175/C/U/M       |
| MVR175/U            | M175/U   | MH175/U           |
| MVR175/C/U          | M175/C/U   | MH175/C/U         |
| ---                 | MP175/BU-ONLY                                    | MP175/BU          |
| MVR175/SP30/U       | M175/3K/BU-ONLY                                  | MH175/3K/BU       |
| MVR250/U            | M250/U   | MH250/U           |
| MVR250/C/U          | M250/C/U   | MH250/C/U         |
| ---                 | M250/U/ET18                                      | MH250/T15         |
| MVR250/SP30/U       | M250/3K/BU-ONLY                                  | MH250/3K/BU       |
| ---                 | MP250/BU-ONLY                                    | MP250/BU          |
| MVR400/U            | M400/U   | MH400/U           |
| MVR400/C/U          | M400/C/U   | MH400/C/U         |
| MVR400/U/ED28       | M400/U/BT28                                      | MH400/U/ED28      |
| MVR400/C/U/ED28     | M400/C/U/BT28                                    | ---               |
| ---                 | M400/U/ET18                                      | MH400/T15         |
| MPR400/VBU/O        | MP400/BU-ONLY                                    | MP400/BU          |
| MPR400/C/VBU/O      | MP400/C/BU-ONLY                                  | MP400/C/BU        |
| MVR1000/U           | M1000/U  | MH1000/U          |
| MVR1000/C/U         | M1000/C/U  | MH1000/C/U        |
| MVR1000/U/BT37      | M1000/U/BT37                                     | MH1000/U/BT37     |
| MPR1000VBUO         | MP1000/BU-ONLY                                   | MP1000/BU         |
| MVR1500/HBU         | M1500/BU-HOR                                     | MH1500/BU         |
| MVR1500/U/SPORTS    | M1500/BD   | MH1500/BD         |
|                     | <b>METALARC BRITELINE</b>                        |                   |
| SPL1500/L/H/652     | M1500T7/DE                                       | ---               |
| MQI2000/T9/40       | M2000T9/DE                                       | ---               |
|                     | <b>METALARC SAFELINE</b>                         |                   |
| MVT400/VBU          | MT400/BU-ONLY                                    | MHT400/U          |
| MVT400/C/VBU        | MT400/C/BU-ONLY                                  | MHT400/C/U        |

## Manufacturers' Cross Reference Guide (continued)

## HIGH INTENSITY DISCHARGE LAMPS - HIGH PRESSURE SODIUM

| GE                 | SYLVANIA                                | PHILIPS          |
|--------------------|---|------------------|
| ARC70TDUVC730      | <b>DOUBLE-ENDED HQI</b><br>HQI-DE70/WDX | ---              |
| ARC70TDUVC743      | HQI-DE70/NDX                            | MHN70/TD/840     |
| ARC150TDUVC742     | HQI-DE150/NDX                           | MHN150/TD/840    |
|                    | <b>SINGLE-ENDED HQI</b>                 |                  |
| ARC150/T/U/840/G12 | HQI-SE 150/NDX                          | ---              |
|                    | <b>LUMALUX PLUS / ECO</b>               |                  |
| ---                | LU50/PLUS/ECO                           | ---              |
| LU70/ECO/NC        | LU70/PLUS/ECO                           | ---              |
| LU100/ECO/NC       | LU100/PLUS/ECO                          | ---              |
| LU150/ECO/NC       | LU150/55/PLUS/ECO                       | ---              |
| LU200/ECO/NC       | LU200/PLUS/ECO                          | ---              |
| LU250/ECO/NC       | LU250/PLUS/ECO                          | ---              |
| ---                | LU310/PLUS/ECO                          | ---              |
| LU400/ECO/NC       | LU400/PLUS/ECO                          | ---              |
|                    | <b>LUMALUX STANDARD &amp; ECOLOGIC</b>  |                  |
| LU35/MED           | LU35/MED                                | C35S76/M         |
| LU35/D/MED         | LU35/D/MED                              | C35S76/D/M       |
| LU50/MED           | LU50/MED                                | C50S68/M         |
| LU50/D/MED         | LU50/D/MED                              | C50S68/D/M       |
| LU50               | LU50/ECO                                | C50S68/ALTO      |
| LU50/D             | LU50/D                                  | C50S68/D/ALTO    |
| LU70/MED           | LU70/MED                                | C70S62/M         |
| LU70/D/MED         | LU70/D/MED                              | C70S62/D/M       |
| LU70ECO            | LU70/ECO                                | C70S62/ALTO      |
| LU70/D             | LU70/D                                  | C70S62/D/ALTO    |
| LU100/MED          | LU100/MED                               | C100S54/M        |
| LU100/D/MED        | LU100/D/MED                             | C100S54/D/M      |
| LU100ECO           | LU100/ECO                               | C100S54/ALTO     |
| LU100/D            | LU100/D                                 | C100S54/D/ALTO   |
| LU150/MED          | LU150/55/MED                            | C150S55/M        |
| LU150/D/MED        | LU150/55/D/MED                          | C150S55/D/M      |
| LU150/55/ECO       | LU150/55/ECO                            | C150S55/ALTO     |
| LU150/55/D         | LU150/55/D                              | C150S55/D/ALTO   |
| LU150/100          | LU150/100                               | C150S56          |
| LU200/ECO          | LU200/ECO                               | C200S66/ALTO     |
| LU250/ECO          | LU250/ECO                               | C250S50/ALTO     |
| LU250/D            | LU250/D                                 | C250S50/D/ALTO   |
| LU310              | LU310/ECO                               | C310S67          |
| LU400/D            | LU400/D                                 | C400S51/D/ALTO   |
| LU400/ECO          | LU400/ECO                               | C400S51/ALTO     |
| LU750              | LU750                                   | ---              |
| LU1000             | LU1000                                  | C1000S52/ALTO    |
|                    | <b>LUMALUX STANDBY</b>                  |                  |
| LU70/SBY/XL        | LU70/SBY                                | C70S62/2         |
| LU100/SBY/XL       | LU100/SBY                               | C100S54/2        |
| LU150/55/SBY/XL    | LU150/55/SBY                            | C150S55/2        |
| LU250/SBY/XL       | LU250/SBY                               | C250S50/2        |
| LU200/SBY/XL       | LU200/100/SBY                           | ---              |
| LU400/SBY/XL       | LU400/SBY                               | C400S51/2        |
| LU1000/SBY/XL      | LU1000/SBY                              | C1000S52/2       |
|                    | <b>UNALUX</b>                           |                  |
| LUH150/EZ          | ULX150                                  | C150S63/Retrolux |
| LUH215/EZ          | ULX215                                  | C215S65/Retrolux |
| LUH360/EZ          | ULX360                                  | C360S64/Retrolux |



## Manufacturers' Cross Reference (continued)

### HIGH INTENSITY DISCHARGE LAMPS - LOW PRESSURE SODIUM

| GE     | SYLVANIA                       | PHILIPS |
|--------|--------------------------------|---------|
|        | <b>SOX LOW PRESSURE SODIUM</b> |         |
| SOX-18 | SOX18                          | SOX-E18 |
| SOX-55 | SOX55                          | SOX55   |
| SOX-90 | SOX90                          | SOX99   |
| ---    | SOX180                         | SOX180  |

### HIGH INTENSITY DISCHARGE LAMPS - MERCURY

| GE             | SYLVANIA                      | PHILIPS        |
|----------------|-------------------------------|----------------|
|                | <b>STANDARD MERCURY VAPOR</b> |                |
| HR40/50DX45-46 | H45/46DL-40/50/DX             | H46DL-40-50/DX |
| HR75DX43       | H43AV-75/DX                   | H43AV-75/DX    |
| HR100DX38/MED  | H38AV-100/DX                  | H38MP-100/DX   |
| HR100RDXFL38   | H38BP-100/DX                  | H38BP-100/DX   |
| HR100A38       | H38HT-100                     | H38HT-100      |
| HR100DX38      | H38JA-100/DX                  | H38JA-100/DX   |
| HR175RFL39     | H39BP-175/DX                  | H39BM-175      |
| HR175A39       | H39KB-175                     | H39KB-175      |
| HR175DX39      | H39KC-175/DX                  | H39KC-175/DX   |
| HR250A37       | H37KB-250                     | H37KB-250      |
| HR250DX37      | H37KC-250/DX                  | H37KC-250/DX   |
| HR400A33       | H33CD-400                     | H33CD-400      |
| HR400DX33      | H33GL-400/DX                  | H33GL-400/DX   |
| HR1000A36      | H36GV-1000                    | H36GV-1000     |
| HR1000DX36     | H36GW-1000/DX                 | H36GW-1000/DX  |
| HR1000DX34     | H34GW-1000/DX                 | H34GW-1000/DX  |
|                | <b>MERCURY VAPOR SAFELINE</b> |                |
| HT400DX33      | H33GL-T400/DX                 | H33GL-T400/DX  |

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## Manufacturers' Cross Reference Guide (continued)

## FLUORESCENT LAMPS

| GE                     | SYLVANIA          | PHILIPS               |
|------------------------|-------------------|-----------------------|
|                        | <b>OCTRON</b>     |                       |
| F17T8/SPX30/ECO        | F017/830/ECO      | F17T8/TL830           |
| F17T8/SPX35/ECO        | F017/835/ECO      | F17T8/TL835           |
| F17T8/SPX41/ECO        | F017/841/ECO      | F17T8/TL841           |
| ---                    | F017/830/XP/ECO   | ---                   |
| ---                    | F017/835/XP/ECO   | ---                   |
| ---                    | F017/841/XP/ECO   | ---                   |
| ---                    | F017/865/XP/ECO   | F17T8/TL865 PLUS      |
| ---                    | F017/830XPS/ECO   | ---                   |
| ---                    | F017/835XPS/ECO   | ---                   |
| ---                    | F017/841XPS/ECO   | ---                   |
| F25T8/SPX30/ECO        | F025/830/ECO      | F25T8/TL830           |
| F25T8/SPX35/ECO        | F025/835/ECO      | F25T8/TL835           |
| F25T8/SPX41/ECO        | F025/841/ECO      | F25T8/TL841           |
| ---                    | F025/830/XP/ECO   | ---                   |
| ---                    | F025/835/XP/ECO   | ---                   |
| ---                    | F025/841/XP/ECO   | ---                   |
| ---                    | F025/865/XP/ECO   | F25T8/TL865 PLUS      |
| ---                    | F025/830XPS/ECO   | ---                   |
| ---                    | F025/835XPS/ECO   | ---                   |
| ---                    | F025/841XPS/ECO   | ---                   |
| F28T8SP30UMX/ECO       | F028/830XP/SS/ECO | ---                   |
| F28T8SP35UMX/ECO       | F028/835XP/SS/ECO | ---                   |
| F28T8SP41UMX/ECO       | F028/841XP/SS/ECO | ---                   |
| F32T8XL/SP30/IS/WM/ECO | F030/830XP/SS/ECO | F32T8/ADV830/EW/ALTO  |
| F32T8XL/SP35/IS/WM/ECO | F030/835XP/SS/ECO | F32T8/ADV835/EW/ALTO  |
| F32T8XL/SP41/IS/WM/ECO | F030/841XP/SS/ECO | F32T8/ADV841/EW/ALTO  |
| F32T8/SP30/ECO         | F032/730/ECO      | F32T8/TL730/ALTO      |
| F32T8/SP35/ECO         | F032/735/ECO      | F32T8/TL735/ALTO      |
| F32T8/SP41/ECO         | F032/741/ECO      | F32T8/TL741/ALTO      |
| F32T8/SP50/ECO         | F032/750/ECO      | F32T8/TL750/ALTO      |
| F32T8/SP65/ECO         | F032/765/ECO      | ---                   |
| F32T8/XL/SP30/ECO      | F032/730/XP/ECO   | F32T8/TL730 PLUS/ALTO |
| F32T8/XL/SP35/ECO      | F032/735/XP/ECO   | F32T8/TL735 PLUS/ALTO |
| F32T8/XL/SP41/ECO      | F032/741/XP/ECO   | F32T8/TL741 PLUS/ALTO |
| ---                    | F032/750/XP/ECO   | F32T8/TL750 PLUS/ALTO |
| F32T8/SPX30/ECO        | F032/830/ECO      | F32T8/TL830/ALTO      |
| F32T8/SPX35/ECO        | F032/835/ECO      | F32T8/TL835/ALTO      |
| F32T8/SPX41/ECO        | F032/841/ECO      | F32T8/TL841/ALTO      |
| F32T8/SPX50/ECO        | F032/850/ECO      | F32T8/TL850/ALTO      |
| ---                    | F032/827/XP/ECO   | ---                   |
| F32T8/XL/SPX30/ECO     | F032/830/XP/ECO   | F32T8/TL830 PLUS/ALTO |
| F32T8/XL/SPX35/ECO     | F032/835/XP/ECO   | F32T8/TL835 PLUS/ALTO |
| F32T8/XL/SPX41/ECO     | F032/841/XP/ECO   | F32T8/TL841 PLUS/ALTO |
| F32T8/XL/SPX50/ECO     | F032/850/XP/ECO   | F32T8/TL850 PLUS/ALTO |
| F32T8/XL/SPX65/ECO     | F032/865/XP/ECO   | F32T8/TL865 PLUS/ALTO |
| F32T8SXL/SPX30/ECO     | ---               | ---                   |
| F32T8SXL/SPX35/ECO     | ---               | ---                   |
| F32T8SXL/SPX41/ECO     | ---               | ---                   |
| F32T8/XL/SPX30/HLEC    | F032/830XPS/ECO   | F32T8/ADV830/ALTO     |
| F32T8/XL/SPX35/HLEC    | F032/835XPS/ECO   | F32T8/ADV835/ALTO     |
| F32T8/XL/SPX41/HLEC    | F032/841XPS/ECO   | F32T8/ADV841/ALTO     |
| F40T8/SPX30            | F040/830/ECO      | F40T8/TL830/ALTO      |
| F40T8/SPX35            | F040/835/ECO      | F40T8/TL835/ALTO      |
| F40T8/SPX41            | F040/841/ECO      | F40T8/TL841/ALTO      |
| ---                    | F040/830/XP/ECO   | ---                   |
| ---                    | F040/835/XP/ECO   | ---                   |
| ---                    | F040/841/XP/ECO   | ---                   |
| F96T8/XL/SP30/WM       | F096/830XP/SS/ECO | ---                   |
| F96T8/XL/SP35/WM       | F096/835XP/SS/ECO | ---                   |
| F96T8/XL/SP41/WM       | F096/841XP/SS/ECO | ---                   |
| F96T8/SPX30            | F096/830/ECO      | F96T8/TL830           |

# Manufacturers' Cross Reference (continued)

## FLUORESCENT LAMPS

| GE              | SYLVANIA                        | PHILIPS              |
|-----------------|---------------------------------|----------------------|
|                 | <b>OCTRON (continued)</b>       |                      |
| F96T8/SPX35     | FO96/835/ECO                    | F96T8/TL835          |
| F96T8/SPX41     | FO96/841/ECO                    | F96T8/TL841          |
| F96T8/SPX50     | FO96/850/ECO                    | F96T8/TL850          |
| F96T8/XL/SPX30  | FO96/830/XP/ECO                 | F96T8/TL830PLUS/ALTO |
| F96T8/XL/SPX35  | FO96/835/XP/ECO                 | F96T8/TL835PLUS/ALTO |
| F96T8/XL/SPX41  | FO96/841/XP/ECO                 | F96T8/TL841PLUS/ALTO |
| F96T8/XL/SPX50  | FO96/850/XP/ECO                 | F96T8/TL850PLUS/ALTO |
| F96T8/SPX30/HO  | ---                             | F96T8/TL830/HO       |
| F96T8/SPX35/HO  | FO96/835/HO                     | F96T8/TL835/HO       |
| F96T8/SPX41/HO  | FO96/841/HO                     | F96T8/TL841/HO       |
|                 | <b>OCTRON CURVALUME</b>         |                      |
| ---             | FB016/830                       | ---                  |
| ---             | FB016/835                       | ---                  |
| ---             | FB016/841                       | ---                  |
| ---             | FB016/865/XP                    | ---                  |
| ---             | FB024/830                       | ---                  |
| ---             | FB024/835                       | ---                  |
| ---             | FB024/841                       | ---                  |
| F31T8/SPX30/U   | FB031/830                       | ---                  |
| F31T8/SPX35/U   | FB031/835                       | ---                  |
| F31T8/SPX41/U   | FB031/841                       | ---                  |
| ---             | FB031/830/XP/ECO                | ---                  |
| ---             | FB031/835/XP/ECO                | ---                  |
| ---             | FB031/841/XP/ECO                | ---                  |
| ---             | FB030/830/XP/SS/ECO             | ---                  |
| ---             | FB030/835/XP/SS/ECO             | ---                  |
| ---             | FB030/841/XP/SS/ECO             | ---                  |
| F32T8/SPX30/U/6 | FB032/830/6/ECO                 | FB32T8/830/6/ALTO    |
| F32T8/SPX35/U/6 | FB032/835/6/ECO                 | FB32T8/835/6/ALTO    |
| F32T8/SPX41/U/6 | FB032/841/6/ECO                 | FB32T8/841/6/ALTO    |
| ---             | FB032/830/6/XP/ECO              | ---                  |
| ---             | FB032/835/6/XP/ECO              | ---                  |
| ---             | FB032/841/6/XP/ECO              | ---                  |
|                 | <b>PENTRON &amp; PENTRON HO</b> |                      |
| F14/T5/830      | FP14/830/ECO                    | F14T5/830            |
| F14/T5/835      | FP14/835/ECO                    | F14T5/835            |
| F14/T5/841      | FP14/841/ECO                    | F14T5/841            |
| F21/T5/830      | FP21/830/ECO                    | F21T5/830            |
| F21/T5/835      | FP21/835/ECO                    | F21T5/835            |
| F21/T5/841      | FP21/841/ECO                    | F21T5/841            |
| F28/T5/830      | FP28/830/ECO                    | F28T5/830            |
| F28/T5/835      | FP28/835/ECO                    | F28T5/835            |
| F28/T5/841      | FP28/841/ECO                    | F28T5/841            |
| F35/T5/830      | FP35/830/ECO                    | F35T5/830            |
| F35/T5/835      | FP35/835/ECO                    | F35T5/835            |
| F35/T5/841      | FP35/841/ECO                    | F35T5/841            |
| F24/T5/830/HO   | FP24/830/HO/ECO                 | F24T5/830/HO/ALTO    |
| F24/T5/835/HO   | FP24/835/HO/ECO                 | F24T5/835/HO         |
| F24/T5/841/HO   | FP24/841/HO/ECO                 | F24T5/841/HO         |
| F39/T5/830/HO   | FP39/830/HO/ECO                 | F39T5/830/HO         |
| F39/T5/835/HO   | FP39/835/HO/ECO                 | F39T5/835/HO         |
| F39/T5/841/HO   | FP39/841/HO/ECO                 | F39T5/841/HO         |
| F54/T5/830/HO   | FP54/830/HO/ECO                 | F54T5/830/HO/ALTO    |
| F54/T5/835/HO   | FP54/835/HO/ECO                 | F54T5/835/HO/ALTO    |
| F54/T5/841/HO   | FP54/841/HO/ECO                 | F54T5/841/HO/ALTO    |
| F80/T5/830/HO   | FP80/830/HO/ECO                 | FP80T5/830/HO        |
| F80/T5/835/HO   | FP80/835/HO/ECO                 | ---                  |
| F80/T5/841/HO   | FP80/841/HO/ECO                 | F80T5/841/HO         |
|                 | <b>PENTRON CIRCLINE</b>         |                      |
| ---             | FPC22/830                       | FC9T5/830            |
| ---             | FPC22/835                       | FC9T5/835            |

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# Manufacturers' Cross Reference Guide (continued)

## FLUORESCENT LAMPS

| GE                      | SYLVANIA                            | PHILIPS               |
|-------------------------|-------------------------------------|-----------------------|
|                         | <b>PENTRON CIRCLINE (continued)</b> |                       |
| ---                     | FPC22/841                           | FC9T5/841             |
| ---                     | FPC40/830                           | FC12T5/830            |
| ---                     | FPC40/835                           | FC12T5/835            |
| ---                     | FPC40/841                           | FC12T5/841            |
| ---                     | FPC55/830/HO                        | ---                   |
| ---                     | FPC55/835/HO                        | ---                   |
| ---                     | FPC55/841/HO                        | ---                   |
|                         | <b>F40 TYPES (STD &amp; SS)</b>     |                       |
| F34/SP30/RS/WM/ECO      | F34/D30/SS/ECO                      | F34/SPEC30/RS/EW/ALTO |
| F34/SP35/RS/WM/ECO      | F34/D35/SS/ECO                      | F34/SPEC35/RS/EW/ALTO |
| F34/SP41/RS/WM/ECO      | F34/D41/SS/ECO                      | F34/SPEC41/RS/EW/ALTO |
| F34/SPX30/RS/WM/ECO     | F34/D830/SS/ECO                     | F34/30U/RS/EW/ALTO    |
| F34/SPX35/RS/WM/ECO     | F34/D835/SS/ECO                     | F34/35URS/EW/ALTO     |
| F34/SPX41/RS/WM/ECO     | F34/D841/SS/ECO                     | F34/41U/RS/EW/ALTO    |
| F40/SP30/RS/ECO         | F40/D30/ECO                         | F40/SPEC30/RS/ALTO    |
| F40/SP35/RS/ECO         | F40/D35/ECO                         | F40/SPEC35/RS/ALTO    |
| F40/SP41/RS/ECO         | F40/D41/ECO                         | F40/SPEC41/RS/ALTO    |
| F40/SPX30/RS/ECO        | F40/D830/ECO                        | F40/30U/RS/ALTO       |
| F40/SPX35/RS/ECO        | F40/D835/ECO                        | F40/35URS/ALTO        |
| F40/SPX41/RS/ECO        | F40/D841/ECO                        | F40/41U/RS/ALTO       |
| F40/XL/SP30, 35, 41     | ---                                 | ---                   |
| F40/XL/SPX30, 35, 41    | ---                                 | ---                   |
|                         | <b>CURVALUME® 3"</b>                |                       |
| F40/SP30/U/3            | ---                                 | ---                   |
| F40/SP41/U/3            | ---                                 | ---                   |
|                         | <b>CURVALUME® 6"</b>                |                       |
| ---                     | FB34/D30/6/SS                       | FB34/SPEC30/6/EW/ALTO |
| ---                     | FB34/D35/6/SS                       | FB34/SPEC35/6/EW/ALTO |
| ---                     | FB34/D41/6/SS                       | FB34/SPEC41/6/EW/ALTO |
| F40/SP30/U/6            | FB40/D30/6                          | FB40/SPEC30/6/ALTO    |
| F40/SP35/U/6            | FB40/D30/6                          | FB40/SPEC35/6/ALTO    |
| F40/SP41/U/6            | FB40/D41/6                          | FB40/SPEC41/6/ALTO    |
| F40/SPX30/U/6           | FB40/D830/6                         | FB40/30U/6/ALTO       |
| F40/SPX35/U/6           | ---                                 | FB40/35U/6/ALTO       |
| ---                     | ---                                 | FB40/41U/6/ALTO       |
|                         | <b>SLIMLINE</b>                     |                       |
| F96T12/SP35/WMP         | ---                                 | ---                   |
| F96T12/SP30/WM/ECO      | F96T12/D30/SS/ECO                   | F96T12/SPEC30/EW/ALTO |
| F96T12/SP35/WM/ECO      | F96T12/D35/SS/ECO                   | F96T12/SPEC35/EW/ALTO |
| F96T12/SP41/WM/ECO      | F96T12/D41/SS/ECO                   | F96T12/SPEC41/EW/ALTO |
| F96T12/SPX30/WM/ECO     | F96T12/D830/SS/ECO                  | F96T12/30U/EW/ALTO    |
| F96T12/SPX35/WM/ECO     | F96T12/D835/SS/ECO                  | F96T12/35U/EW/ALTO    |
| F96T12/SPX41/WM/ECO     | F96T12/D841/SS/ECO                  | F96T12/41U/EW/ALTO    |
| F96T12/XL/SP35/WM       | ---                                 | ---                   |
| F96T12/XL/SP41/WM       | ---                                 | ---                   |
| F96T12/SP30/ECO         | F96T12/D30/ECO                      | F96T12/SPEC30/ALTO    |
| F96T12/SP35/ECO         | F96T12/D35/ECO                      | F96T12/SPEC35/ALTO    |
| F96T12/SP41/ECO         | F96T12/D41/ECO                      | F96T12/SPEC41/ALTO    |
| F96T12/SPX30/ECO        | F96T12/D830/ECO                     | F96T12/30U/ALTO       |
| F96T12/SPX35/ECO        | F96T12/D835/ECO                     | F96T12/35U/ALTO       |
| F96T12/SPX41/ECO        | F96T12/D841/ECO                     | F96T12/41U/ALTO       |
| F96T12/XL/SP35, 41      | ---                                 | ----                  |
| F96T12/XL/SPX35, 41, 50 | ---                                 | ---                   |
|                         | <b>HIGH OUTPUT</b>                  |                       |
| F72T12/SPX30/HO         | F72T12/D830/HO                      | F72T12/30U/HO         |
| ---                     | ---                                 | F96T12/SPEC30/HO/EW   |
| F96T12/SP35/HO/WM       | F96T12/D35/HO/SS                    | F96T12/SPEC35/HO/EW   |
| F96T12/SP41/HO/WM       | F96T12/D41/HO/SS                    | F96T12/SPEC41/HO/EW   |
| F96T12/SPX830/HO/WM     | F96T12/D830/HO/SS                   | F96T12/30U/HO/EW      |
| F96T12/SPX35/HO/WM      | F96T12/D835/HO/SS                   | F96T12/35U/HO/EW      |
| F96T12/SPX41/HO/WM      | F96T12/D841/HO/SS                   | F96T12/41U/HO/EW      |

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### FLUORESCENT LAMPS

| GE                | SYLVANIA                       | PHILIPS          |
|-------------------|--------------------------------|------------------|
|                   | <b>HIGH OUTPUT (continued)</b> |                  |
| F96T12/SP30/HO    | F96T12/D30/HO                  | F96T12/SPEC30/HO |
| F96T12/SP35/HO    | F96T12/D35/HO                  | F96T12/SPEC35/HO |
| F96T12/SP41/HO    | F96T12/D41/HO                  | F96T12/SPEC41/HO |
| F96T12/SPX830/HO  | F96T12/D830/HO                 | F96T12/30U/HO    |
| F96T12/SPX35/HO   | F96T12/D835/HO                 | F96T12/35U/HO    |
| F96T12/SPX41/HO   | F96T12/D841/HO                 | F96T12/41U/HO    |
|                   | <b>APPLIANCE</b>               |                  |
| F24*T8/CW/4       | F18T8CW/K24                    | F15T8/CW/24      |
| F26*T8/CW/4       | F18T8CW/K26                    | F16T8/CW/26      |
| F28*T8/CW/4       | F18T8CW/K28                    | F17T8/CW/28      |
| F30*T8/CW/4       | F18T8CW/K30                    | F18T8/CW/30      |
| ---               | F18T8/D/K26                    | ---              |
|                   | <b>OTHER RAPID START</b>       |                  |
| F25T12/SP30/RS/WM | F25T12/D30/RS/SS               | ---              |
| F25T12/SP35/RS/WM | F25T12/D35/RS/SS               | ---              |
| F30T12/SP35/RS    | F30T12/D35/RS                  | F30T12/SPEC35/RS |
| F30T12/SP41/RS    | F30T12/D41/RS                  | F30T12/SPEC41/RS |
| F30T12/SPX30/RS   | F30T12/D830/RS                 | F30T12/30U/RS    |
| F30T12/SPX35/RS   | F30T12/D835/RS                 | F30T12/35U/RS    |

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|----------------------------|---------------------------|----------------------------|
| F5BX/SPX27/827             | <b>DULUX S - 2 PIN</b>    |                            |
| F5BX/SPX41/840             | CF5DS/827 (ECO)           | PL-S 5W/827                |
| F7BX/SPX27/827             | CF5DS/841 (ECO)           | ---                        |
| F7BX/SPX35/835             | CF7DS/827 (ECO)           | PL-S 7W/827                |
| F7BX/SPX41/840             | CF7DS/835 (ECO)           | PL-S 7W/835                |
| F7BX/SPX50/850             | CF7DS/841 (ECO)           | PL-S 7W/841                |
| F9BX/SPX27/827             | CF7DS/850 (ECO)           | PL-S 7W/850                |
| F9BX/SPX35/835             | CF9DS/827 (ECO)           | PL-S 9W/827                |
| F9BX/SPX41/840             | CF9DS/835 (ECO)           | PL-S 9W/835                |
| F9BX/SPX50                 | CF9DS/841 (ECO)           | PL-S 9W/841                |
| ---                        | CF9DS/850 (ECO)           | PL-S 9W/850                |
| ---                        | CF9DS/BBLUE               | ---                        |
| ---                        | CF9DS/GREEN               | ---                        |
| ---                        | CF9DS/RED                 | ---                        |
| F13BX/SPX27/827            | CF13DS/827 (ECO)          | PL-S 13W/827               |
| F13BX/SPX30/830            | CF13DS/830 (ECO)          | PL-S 13W/830               |
| F13BX/SPX35/835            | CF13DS/835 (ECO)          | PL-S 13W/835               |
| F13BX/SPX41/84             | CF13DS/841 (ECO)          | PL-S 13W/841               |
| F13BX/SPX50                | CF13DS/850 (ECO)          | PL-S 13W/850               |
| F13BX/E/830, 835, 841, 850 | CFT13/DS/EC/827, 835, 841 | ---                        |
| F13BX/BBLUE                | ---                       | ---                        |
| F13BX/GREEN                | CF13DS/GREEN              | ---                        |
| ---                        | <b>DULUX S/E - 4 PIN</b>  |                            |
| ---                        | CF5DS/E/827               | ---                        |
| ---                        | CF5DS/E/841               | ---                        |
| ---                        | CF7DS/E/827               | ---                        |
| ---                        | CF7DS/E/841               | ---                        |
| ---                        | CF9DS/E/827               | ---                        |
| ---                        | CF9DS/E/841               | ---                        |
| ---                        | CF13DS/E/827              | ---                        |
| ---                        | CF13DS/E/830              | ---                        |
| ---                        | CF13DS/E/841              | ---                        |
| F9DBX23T4/SPX27/827        | <b>DULUX D - 2 PIN</b>    |                            |
| ---                        | CF9DD/827 (ECO)           | ---                        |
| ---                        | CF9DD/830 (ECO)           | ---                        |
| ---                        | CF9DD/835 (ECO)           | ---                        |
| F9DBX23T4/SPX41            | ---                       | ---                        |
| F13DBX23T4/SPX27           | CF13DD/827 (ECO)          | PL-C 13W/827/USA/ALTO      |
| F13DBXT4/SPX27 (G24d-1)    | ---                       | PL-C 13W/827/ALTO (G24d-1) |
| F13DBX23T4/SPX30           | CF13DD/830 (ECO)          | PL-C 13W/830/USA/ALTO      |
| F13DBXT4/SPX30 (G24d-1)    | ---                       | PL-C 13W/830/ALTO (G24d-1) |
| F13DBX23T4/SPX35           | CF13DD/835 (ECO)          | PL-C 13W/835/USA/ALTO      |
| F13DBXT4/SPX35 (G24d-1)    | ---                       | ---                        |
| F13DBX23T4/SPX41           | CF13DD/841 (ECO)          | PL-C 13W/841/USAALTO       |
| F13DBXT4/SPX41 (G24d-1)    | ---                       | ---                        |
| F18DBXT4/SPX27             | CF18DD/827 (ECO)          | PL-C 18W/827/ALTO          |
| F18DBXT4/SPX30             | CF18DD/830 (ECO)          | PL-C 18W/830/ALTO          |
| F18DBXT4/SPX35             | CF18DD/835 (ECO)          | PL-C 18W/835/ALTO          |
| F18DBXT4/SPX41             | CF18DD/841 (ECO)          | PL-C 18W/841/ALTO          |
| ---                        | ---                       | PL-C 15mm/22W/827          |
| F26DBXT4/SPX27             | CF26DD/827 (ECO)          | PL-C 26W/827/ALTO          |
| F26DBXT4/SPX30             | CF26DD/830 (ECO)          | PL-C 26W/830/ALTO          |
| F26DBXT4/SPX35             | CF26DD/835 (ECO)          | PL-C 26W/835/ALTO          |
| F26DBXT4/SPX41             | CF26DD/841 (ECO)          | PL-C 26W/841/ALTO          |
| F26DBXT4/E/827             | ---                       | ---                        |
| F26DBXT4/E/830             | ---                       | ---                        |
| F26DBXT4/E/835             | ---                       | ---                        |
| F26DBXT4/E/841             | ---                       | ---                        |
| ---                        | <b>DULUX D/E - 4 PIN</b>  |                            |
| ---                        | ---                       | PL-C 15mm/28W/827          |
| F13DBX/SPX27/4P            | CF13DD/E/827 (ECO)        | PL-C 13W/827/4P/ALTO       |
| F13DBX/SPX30/4P            | CF13DD/E/830 (ECO)        | PL-C 13W/830/4P/ALTO       |

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|                     | <b>DULUX D/E - 4 PIN (continued)</b>   |                      |
| F13DBX/SPX35/4P     | CF13DD/E/835 (ECO)                     | PL-C 13W/835/4P/ALTO |
| F13DBX/SPX41/4P     | CF13DD/E/841 (ECO)                     | PL-C 13W/841/4P/ALTO |
| F18DBX/SPX27/4PL    | CF18DD/E/827 (ECO)                     | PL-C 18W/827/4P/ALTO |
| F18DBX/SPX30/4PL    | CF18DD/E/830 (ECO)                     | PL-C 18W/830/4P/ALTO |
| F18DBX/SPX35/4PL    | CF18DD/E/835 (ECO)                     | PL-C 18W/835/4P/ALTO |
| F18DBX/SPX41/4PL    | CF18DD/E/841 (ECO)                     | PL-C 18W/841/4P/ALTO |
| F26DBXT4/SPX27/4P   | CF26DD/E/827 (ECO)                     | PL-C 26W/827/4P/ALTO |
| F26DBXT4/SPX30/4P   | CF26DD/E/830 (ECO)                     | PL-C 26W/830/4P/ALTO |
| F26DBX/SPX35/4P     | CF26DD/E/835 (ECO)                     | PL-C 26W/835/4P/ALTO |
| F26DBX/SPX41/4P     | CF26DD/E/841 (ECO)                     | PL-C 26W/841/4P/ALTO |
|                     | <b>DULUX T - 2 PIN</b>                 |                      |
| ---                 | CF18DT/827 (ECO)                       | ---                  |
| ---                 | CF26DT/827 (ECO)                       | ---                  |
|                     | <b>DULUX T/E - 4 PIN (NON-AMALGAM)</b> |                      |
| ---                 | CF13DT/E/827 (ECO)                     | ---                  |
| ---                 | CF13DT/E/830 (ECO)                     | ---                  |
| ---                 | CF13DT/E/835 (ECO)                     | ---                  |
| ---                 | CF13DT/E/841 (ECO)                     | ---                  |
| ---                 | CF26DT/E/827 (ECO)                     | ---                  |
| ---                 | CF32DT/E/827 (ECO)                     | ---                  |
|                     | <b>DULUX T/E/IN - 4 PIN (AMALGAM)</b>  |                      |
| F13TBX/SPX27/A/4P   | ---                                    | ---                  |
| F13TBX/SPX30/A/4P   | ---                                    | ---                  |
| F13TBX/SPX35/A/4P   | ---                                    | ---                  |
| F13TBX/SPX41/A/4P   | ---                                    | ---                  |
| F18TBX/SPX27/A/4P   | CF18DT/E/IN/827 (ECO)                  | PL-T 18W/827/4P/ALTO |
| F18TBX/SPX30/A/4P   | CF18DT/E/IN/830 (ECO)                  | PL-T 18W/830/4P/ALTO |
| F18TBX/SPX35/A/4P   | CF18DT/E/IN/835 (ECO)                  | PL-T 18W/835/4P/ALTO |
| F18TBX/SPX41/A/4P   | CF18DT/E/IN/841 (ECO)                  | PL-T 18W/841/4P/ALTO |
| F26TBX/SPX27/A/4P   | CF26DT/E/IN/827 (ECO)                  | PL-T 26W/827/4P/ALTO |
| F26TBX/SPX30/A/4P   | CF26DT/E/IN/830 (ECO)                  | PL-T 26W/830/4P/ALTO |
| F26TBX/SPX35/A/4P   | CF26DT/E/IN/835 (ECO)                  | PL-T 26W/835/4P/ALTO |
| F26TBX/SPX41/A/4P   | CF26DT/E/IN/841 (ECO)                  | PL-T 26W/841/4P/ALTO |
| F32TBX/SPX27/A/4P   | CF32DT/E/IN/827 (ECO)                  | PL-T 32W/827/4P/ALTO |
| F32TBX/SPX30/A/4P   | CF32DT/E/IN/830 (ECO)                  | PL-T 32W/830/4P/ALTO |
| F32TBX/SPX35/A/4P   | CF32DT/E/IN/835 (ECO)                  | PL-T 32W/835/4P/ALTO |
| F32TBX/SPX41/A/4P   | CF32DT/E/IN/841 (ECO)                  | PL-T 32W/841/4P/ALTO |
| F42TBX/827/A/4P/EOL | CF42DT/E/IN/827 (ECO)                  | PL-T 42W/827/4P/ALTO |
| F42QBX/SPX27/A/4P   | ---                                    | F42QBX/SPX27/A/4P    |
| F42TBX/830/A/4P/EOL | CF42DT/E/IN/830 (ECO)                  | PL-T 42W/830/4P/ALTO |
| F42QBX/SPX30/A/4P   | ---                                    | ---                  |
| F42TBX/835/A/4P/EOL | CF42DT/E/IN/835 (ECO)                  | PL-T 42W/835/4P/ALTO |
| F42QBX/SPX35/A/4P   | ---                                    | ---                  |
| F42TBX/841/A/4P/EOL | CF42DT/E/IN/841 (ECO)                  | PL-T 42W/841/4P/ALTO |
| F42QBX/SPX41/A/4P   | ---                                    | ---                  |
| ---                 | CF57DT/E/IN/827 (ECO)                  | ---                  |
| ---                 | CF57DT/E/IN/830 (ECO)                  | ---                  |
| F57QBX/830/A/4P/EOL | ---                                    | ---                  |
| ---                 | CF57DT/E/IN/835 (ECO)                  | ---                  |
| F57QBX/835/A/4P/EOL | ---                                    | ---                  |
| ---                 | CF57DT/E/IN/841 (ECO)                  | ---                  |
| F57QBX/841/A/4P/EOL | ---                                    | ---                  |
| F57QBX/850/A/4P/EOL | ---                                    | ---                  |
|                     | <b>DULUX L - 4 PIN</b>                 |                      |
| F18BX/SPX30         | FT18DL/830                             | PL-L 18W/830         |
| F18BX/SPX30/RS      | FT18DL/830/RS                          | ---                  |
| F18BX/SPX35         | FT18DL/835                             | PL-L 18W/835         |
| F18BX/SPX35/RS      | FT18DL/835/RS                          | ---                  |
| F18BX/SPX41         | FT18DL/841                             | PL-L 18W/841         |
| F18BX/SPX41/RS      | FT18DL/841/RS                          | ---                  |
| F27BX/SPX30/RS      | FT24DL/830                             | PL-L 24W/830         |

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|                | <b>DULUX L - 4 PIN (continued)</b> |                 |
| F27BX/SPX35/RS | FT24DL/835                         | PL-L 24W/835    |
| F27BX/SPX41/RS | FT24DL/841                         | PL-L 24W/841    |
| F39BX/SPX30/RS | FT36DL/830                         | PL-L 36W/830    |
| F39BX/SPX35/RS | FT36DL/835                         | PL-L 36W/835    |
| F39BX/SPX41/RS | FT36DL/841                         | PL-L 36W/841    |
| F40/30BX/SPX30 | FT40DL/830/RS                      | PL-L 40W/830/RS |
| F40/30BX/SPX35 | FT40DL/835/RS                      | PL-L 40W/835/RS |
| F40/30BX/SPX41 | FT40DL/841/RS                      | PL-L 40W/841/RS |
| F50BX/SPX30/RS | ---                                | PL-L 50W/830/RS |
| F50BX/SPX35/RS | ---                                | PL-L 50W/835/RS |
| F50BX/SPX41/RS | ---                                | PL-L 50W/841/RS |
| F55BX/830      | FT55DL/830                         | ---             |
| F55BX/835      | FT55DL/835                         | ---             |
| F55BX/841      | FT55DL/841                         | ---             |
| ---            | FT80DL/830                         | PL-L 80W/830    |
| ---            | FT80DL/835                         | PL-L 80W/835    |
| ---            | FT80DL/841                         | PL-L 80W/841    |
|                | <b>DULUX F - 4 PIN</b>             |                 |
| ---            | CF18DF/830                         | ---             |
| ---            | CF18DF/841                         | ---             |
| ---            | CF24DF/830                         | ---             |
| ---            | CF24DF/841                         | ---             |
| ---            | CF36DF/830                         | ---             |
| ---            | CF36DF/841                         | ---             |

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| ADVANCE   | SYLVANIA              | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | HOWARD INDUSTRIES   |
|---|-----------------------|--|---------------------|
| <b>QUICKTRONIC® 32 T8 INSTANT START</b>   |                       |  |                     |
| <b>32 T8 Instant Start - Normal Ballast Factor - Small Can - &lt;20% THD</b>  |                       |  |                     |
| REL-1P32-SC   | QT1x32T8/120ISN-SC    | B132I120RH-A   | E1/32IS-120SC       |
| VEL-1P32-SC   | QT1x32T8/277ISN-SC    | B132I277RH-A   | E1/32IS-277SC       |
| REL-2P32-SC   | QT2x32T8/120ISN-SC    | B232I120RH-A   | E2/32IS-120SC       |
| VEL-2P32-SC   | QT2x32T8/277ISN-SC    | B232I277RH-A   | E2/32IS-277SC       |
| REL-3P32-SC   | QT3x32T8/120ISN-SC    | B332I120RH-A   | E3/32IS-120SC       |
| VEL-3P32-SC   | QT3x32T8/277ISN-SC    | B332I277RH-A   | E3/32IS-277SC       |
| REL-4P32-SC   | QT4x32T8/120ISN-SC    | B432I120RH-A   | E4/32IS-120SC       |
| VEL-4P32-SC   | QT4x32T8/277ISN-SC    | B432I277RH-A   | E4/32IS-277SC       |
| GEL-2P32-SC   | QT2x32T8/347ISN-SC    | B232I347RH (F-Can)                                   | E2/32IS-347 (F-Can) |
| GEL-4P32-RH-TP (F-Can)  | QT4x32T8/347ISN-SC    | B432I347RH (F-Can)                                   | E4/32IS-347 (F-Can) |
| <b>32 T8 Instant Start - Normal Ballast Factor - Standard "F" Can - &lt;20% THD</b>   |                       |  |                     |
| REL-3P32-RH-TP  | QT3x32/120IS          | B332I120RH   | E3/32IS-120         |
| VEL-3P32-RH-TP  | QT3x32/277IS          | B332I277RH   | E3/32IS-277         |
| REL-4P32-RH-TP  | QT4x32/120IS          | B432I120RH   | E4/32IS-120         |
| VEL-4P32-RH-TP  | QT4x32/277IS          | B432I277RH   | E4/32IS-277         |
| GEL-3P32-RH-TP  | QT3x32/347IS          | B332I347RH   | E3/32IS-347         |
| GEL-4P32-RH-TP  | QT4x32/347IS          | B432I347RH   | E4/32IS-347         |
| <b>32 T8 Instant Start - High Ballast Factor - "PLUS" High Light Output Systems - Small Can/Standard "F" Can - &lt;20% THD</b><br>(High Ballast Factor ballasts may vary greatly in ballast factor between manufacturers/models - please refer to actual specs for details) |                       |  |                     |
| REL-2P32-HL-SC  | QT2x32T8/120ISH-SC    | B232I120RHH  | E2/32IS-120         |
| VEL-2P32-HL-SC  | QT2x32T8/277ISH-SC    | B232I277RHH  | E2/32IS-277         |
| REL-3P32-HL   | QT3x32/120PLUS        | B332I120RHH  | E3/32IS-120         |
| VEL-3P32-HL   | QT3x32/277PLUS        | B332I277RHH  | E3/32IS-277         |
| <b>32 T8 Instant Start - Low Ballast Factor - Low Power(LP/ISL)Systems - SmallCan/Standard "F" Can - &lt;20%THD</b>   |                       |  |                     |
| REL-1P32-LW-SC  | QT1x32T8/120ISL-SC    | N/A  | EL1/32IS-120        |
| VEL-1P32-LW-SC  | QT1x32T8/277ISL-SC    | N/A  | EL1/32IS-277        |
| REL-2P32-LW-SC  | QT2x32T8/120ISL-SC    | B232I120L-A  | EL2/32IS-120        |
| VEL-2P32-LW-SC  | QT2x32T8/277ISL-SC    | B232I277L-A  | EL2/32IS-277        |
| REL-3P32-LW-SC  | QT3x32T8/120ISL-SC    | B332I120L-A  | EL3/32IS-120        |
| VEL-3P32-LW-SC  | QT3x32T8/277ISL-SC    | B332I277L-A  | EL3/32IS-277        |
| REL-4P32-LW-RH-TP   | QT4x32/120LP          | B432I120L  | EL4/32IS-120        |
| VEL-4P32-LW-RH-TP   | QT4x32/277LP          | B432I277L  | EL4/32IS-277        |
| GEL-2P32-LW-RH-TP   | QT2x32T8/347ISL-SC    | B232I347L  | N/A                 |
| GEL-4P32-LW-RH-TP   | QT4x32/347LP          | B432I347L  | N/A                 |
| <b>QUICKTRONIC® PROFESSIONAL 32 T8 INSTANT START UNIVERSAL VOLTAGE SYSTEMS</b>  |                       |  |                     |
| <b>32 T8 Instant Start - Normal Ballast Factor - Small Can - &lt;10%THD</b>   |                       |  |                     |
| ICN-1P32-SC   | QTP1x32T8/UNVISN-SC   | B132IUNVHP-B   | EP1/32IS/120-277    |
| ICN-2P32-SC   | QTP2x32T8/UNVISN-SC   | B232IUNVHP-B   | EP2/32IS/120-277    |
| ICN-3P32-SC   | QTP3x32T8/UNVISN-SC   | B332IUNVHP-A   | EP3/32IS/120-277    |
| ICN-4P32-SC   | QTP4x32T8/UNVISN-SC   | B432IUNVHP-A   | EP4/32IS/120-277    |
| ADVANCE   | SYLVANIA              | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | GE GENERAL ELECTRIC |
| <b>32 T8 High Efficiency Instant Start - Normal Ballast Factor - Small Can - &lt;10%THD</b>   |                       |  |                     |
| N/A   | QHE 1X32T8/UNV ISN-SC | N/A  | GE-132-MAX-N/ULTRA  |
| N/A   | QHE 2X32T8/UNV ISN-SC | B232IUNVHE-A   | GE-232-MAX-N/ULTRA  |
| N/A   | QHE 3X32T8/UNV ISN-SC | B332IUNVHE-A   | GE-332-MAX-N/ULTRA  |
| N/A   | QHE 4X32T8/UNV ISN-SC | B432IUNVHE-A   | GE-432-MAX-N/ULTRA  |
| <b>32 T8 High Efficiency Instant Start - Low Ballast Factor - Small Can - &lt;10%THD</b>  |                       |  |                     |
| N/A   | QHE 1X32T8/UNV ISL-SC | N/A  | GE-132-MAX-L/ULTRA  |
| N/A   | QHE 2X32T8/UNV ISL-SC | B232IUNVEL-A   | GE-232-MAX-L/ULTRA  |
| N/A   | QHE 3X32T8/UNV ISL-SC | B332IUNVEL-A   | GE-332-MAX-L/ULTRA  |
| N/A   | QHE 4X32T8/UNV ISL-SC | B432IUNVEL-A   | GE-432-MAX-L/ULTRA  |
| ADVANCE   | SYLVANIA              | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | HOWARD INDUSTRIES   |
| <b>QUICKTRONIC® PROFESSIONAL 32 T8 PROStart® UNIVERSAL VOLTAGE SYSTEMS</b>  |                       |  |                     |
| <b>32 T8 Programmed Rapid Start - Normal Ballast Factor - &lt;10%THD</b>  |                       |  |                     |
| N/A   | QTP1x32T8/UNVPSN-TC   | B132PUNVHP-A   | N/A                 |
| N/A   | QTP2x32T8/UNVPSN-TC   | B232PUNVHP-A   | N/A                 |

**Manufacturers' Cross Reference Guide (continued)**
**ELECTRONIC FLUORESCENT LAMP BALLASTS**

| ADVANCE   | SYLVANIA                         | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | HOWARD INDUSTRIES |
|---|----------------------------------|--|-------------------|
| <b>32 T8 Programmed Rapid Start - Normal Ballast Factor - &lt;10%THD</b>  |                                  |  |                   |
| N/A   | QTP3x32T8/UNVPSN-SC              | B332PUNVHP-A   | N/A               |
| N/A   | QTP4x32T8/UNVPSN-SC              | B432PUNVHP-A   | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL 32 T8 PROStart® DEDICATED VOLTAGE SYSTEMS</b>  |                                  |  |                   |
| <b>32 T8 Programmed Rapid Start - Normal Ballast Factor - &lt;10% THD</b>   |                                  |  |                   |
| NOTE: UNV PSN models above replace Dedicated Voltage PSN models below.<br>(Programmed RS, Program RS)                                   |                                  |  |                   |
| RIC-132, RCN-1S32-SC  | QTP1x32T8/120PSN-TC              | B132P120RH   | N/A               |
| VIC-132, VCN-1S32-SC  | QTP1x32T8/277PSN-TC              | B132P277RH   | N/A               |
| RIC-2S32, RCN-2S32-SC   | QTP2x32T8/120PSN-SC              | B232P120RH   | N/A               |
| VIC-2S32, VCN-2S32-SC   | QTP2x32T8/277PSN-SC              | B232P277RH   | N/A               |
| RIC-3S32, RCN-3S32-SC   | QTP3x32T8/120PSN-SC              | B332P120RH   | N/A               |
| VIC-3S32, VCN-3S32-SC   | QTP3x32T8/277PSN-SC              | B332P277RH   | N/A               |
| RCN-4S32-SC   | QTP4x32T8/120PSN-SC              | B432P120RH   | N/A               |
| VCN-4S32-SC   | QTP4x32T8/277PSN-SC              | B432P277RH   | N/A               |
| <b>QUICKTRONIC® 59 T8, 59 PLUS, and QUICKTRONIC® PROFESSIONAL 8 foot Systems</b>  |                                  |  |                   |
| <b>59W F96 T8 Instant Start - Normal Ballast Factor - &lt;20% THD</b>   |                                  |  |                   |
| REL-2P59-S-RH-TP  | QT2x59/120IS                     | B259I120RH   | E2/59IS-120       |
| VEL-2P59-S-RH-TP  | QT2x59/277IS                     | B259I277RH   | E2/59IS-277       |
| GEL-2P59  | QT2x59/347IS                     | N/A  | N/A               |
| <b>59W F96 T8 Instant Start - High Ballast Factor (PLUS) Systems - &lt;20% THD</b>  |                                  |  |                   |
| REL-2P59-HL   | QT2x59/120PLUS                   | B259I120RHH  | N/A               |
| VEL-2P59-HL   | QT2x59/277PLUS                   | B259I277RHH  | N/A               |
| <b>59W F96 T8 Instant Start - Normal Ballast Factor - &lt;10% THD</b>   |                                  |  |                   |
| RCN-2P59  | QTP2x59T8/120ISN-A               | B259I120HE   | N/A               |
| VCN-2P59  | QTP2x59T8/277ISN-A               | B259I277HE   | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL T5 HO PROStart® UNIVERSAL VOLTAGE SYSTEMS</b>  |                                  |  |                   |
| <b>T5 HO - Normal Ballast Factor - &lt;10% THD</b>  |                                  |  |                   |
| (Ballast Can Size varies between manufacturers - please refer to specifications for details)  |                                  |  |                   |
| ICN-2S39 (1 Lamp)   | QTP1x39-24T5HO/UNVPSN (FP39T5HO) | B239PUNV-D (1 Lamp)                                  | N/A               |
| ICN-2S39  | QTP2x39-24T5HO/UNVPSN (FP39T5HO) | B239PUNV-D   | N/A               |
| ICN-2S24 (1 Lamp)   | QTP1x39-24T5HO/UNVPSN (FP24T5HO) | B224PUNV-C (1 Lamp)                                  | N/A               |
| ICN-2S24  | QTP2x39-24T5HO/UNVPSN (FP24T5HO) | B224PUNV-C   | N/A               |
| ICN-2S54 (1 Lamp)   | QTP1x54T5HO/UNVPSN               | B254PUNV-D (1 Lamp)                                  | N/A               |
| ICN-2S54  | QTP2x54T5HO/UNVPSN               | B254PUNV-D   | N/A               |
| ICN-1S80  | QTP1x80T5HO/UNVPSN               | N/A  | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL T5 PROStart® UNIVERSAL VOLTAGE SYSTEMS</b>   |                                  |  |                   |
| <b>28W T5 - Normal Ballast Factor - &lt;10% THD</b>   |                                  |  |                   |
| (Ballast Can Size varies between manufacturers - please refer to specifications for details)  |                                  |  |                   |
| ICN-2S28 (1 Lamp)   | QTP1x28T5/UNVPSN                 | B228PUNV-C (1 Lamp)                                  | N/A               |
| ICN-2S28  | QTP2x28T5/UNVPSN                 | B228PUNV-C   | N/A               |
| <b>QUICKTRONIC® Instant Start DL40</b>  |                                  |  |                   |
| <b>40W TT5 Instant Start, Normal Ballast Factor - &lt;20% THD</b>   |                                  |  |                   |
| N/A   | QT1x40/120DL                     | C240I120RH, C240SI120RH (1 LAMP)                     | E1/40IS-TT-120    |
| N/A   | QT1x40/277DL                     | C240I277RH, C240SI277RH (1 LAMP)                     | E1/40IS-TT-277    |
| N/A   | QT2x40/120DL                     | C240I120RH, C240SI120RH                              | E2/40IS-TT-120    |
| N/A   | QT2x40/277DL                     | C240I277RH, C240SI277RH                              | E2/40IS-TT-277    |
| N/A   | QT3x40/120DL                     | C340I120RH, C340SI120RH                              | E3/40IS-TT-120    |
| N/A   | QT3x40/277DL                     | C340I277RH, C340SI277RH                              | E3/40IS-TT-277    |
| <b>QUICKTRONIC® PROFESSIONAL PROStart® DL40</b>   |                                  |  |                   |
| <b>40W TT5 Programmed Rapid Start, Normal Ballast Factor - &lt;10% THD</b>  |                                  |  |                   |
| REL-1TTS40  | QTP1x40TT5/120PSN-F              | N/A  | N/A               |
| VEL-1TTS40  | QTP1x40TT5/277PSN-F              | N/A  | N/A               |
| REL-2TTS40  | QTP2x40TT5/120PSN-F              | N/A  | N/A               |
| VEL-2TTS40  | QTP2x40TT5/277PSN-F              | N/A  | N/A               |
| N/A   | QTP3x40TT5/120PSN-B              | N/A  | N/A               |
| N/A   | QTP3x40TT5/277PSN-B              | N/A  | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL 32 T8 HELIOS™ DIMMING - A list of 0-10V controllers is available from OSRAM SYLVANIA</b>                   |                                  |  |                   |
| <b>32 T8 Dimming Systems (0-10Vdc control) - 100-5% and 100-10% Dimming Range - &lt;10% THD at full output, &lt;20% THD at full dim</b> |                                  |  |                   |
| RZT-132   | QTP1x32T8/120DIM5-B              | B132R120V5   | N/A               |
| VZT-132   | QTP1x32T8/277DIM5-B              | B132R277V5   | N/A               |
| RZT-2S32  | QTP2x32T8/120DIM5-B              | B232SR120V5  | N/A               |

## Manufacturers' Cross Reference (continued)

## ELECTRONIC FLUORESCENT LAMP BALLASTS

| ADVANCE   | SYLVANIA             | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | HOWARD INDUSTRIES |
|---|----------------------|--|-------------------|
| <b>32 T8 Dimming Systems (0-10Vdc control) - 100-5% and 100-10% Dimming Range - &lt;10% THD at full output, &lt;20% THD at full dim (continued)</b> |                      |  |                   |
| VZT-2S32  | QTP2x32T8/277DIM5-B  | B232SR277V5  | N/A               |
| RZT-3S32  | QTP3x32T8/120DIM5-Q  | B332SR120V5  | N/A               |
| VZT-3S32  | QTP3x32T8/277DIM5-Q  | B332SR277V5  | N/A               |
| N/A   | QTP4x32T8/120DIM10-Q | N/A  | N/A               |
| VZT-4S32  | QTP4x32T8/277DIM10-Q | N/A  | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL 54 T5 HO HELIOS™ DIMMING - A list of 0-10V controllers is available from OSRAM SYLVANIA</b>                            |                      |  |                   |
| <b>54 T5 HO Dimming Systems (0-10Vdc control) - 100-1% Dimming Range -&lt;10% THD at full output, &lt;20% THD at full dim</b>                       |                      |  |                   |
| RZT-154   | QT1x54/120PHO-DIM    | N/A  | N/A               |
| VZT-154   | QT1x54/277PHO-DIM    | N/A  | N/A               |
| RZT-2S54  | QT2x54/120PHO-DIM    | N/A  | N/A               |
| VZT-2S54  | QT2x54/277PHO-DIM    | N/A  | N/A               |
| <b>QUICKTRONIC® 8 foot T12 Systems</b>  |                      |  |                   |
| <b>96 T12 Instant Start - Normal Ballast Factor - Large Can (11.75"long) - &lt;20% THD</b>  |                      |  |                   |
| REL-2P60-S  | QT2x96/120IS         | B260I120RH   | N/A               |
| VEL-2P75-S  | QT2x96/277IS         | B260I277RH   | N/A               |
| <b>96 T12/HO Rapid Start - Normal Ballast Factor - Large Can (11.75"long) - &lt;20% THD</b>   |                      |  |                   |
| REL-2S110   | QT2x96/120HO         | B295SR120HP  | N/A               |
| VEL-2S110   | QT2x96/277HO         | B295SR277HP  | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL 40 T12</b>   |                      |  |                   |
| <b>40 T12 Rapid Start - Normal Ballast Factor - &lt;10% THD</b>   |                      |  |                   |
| REL-1S40-RH-TP  | QTP1x40T12/120RSN-B  | B140R120HP   | N/A               |
| VEL-1S40-RH-TP  | QTP1x40T12/277RSN-B  | B140R277HP   | N/A               |
| RCN-2S40, REL-2S40-RH-TP  | QTP2x40T12/120RSN-B  | B240R120HP   | N/A               |
| VCN-2S40, VEL-2S40-RH-TP  | QTP2x40T12/277RSN-B  | B240R277HP   | N/A               |
| REL-3S40-RH-TP  | QTP3x40T12/120RSN-B  | B340R120HP   | N/A               |
| VEL-3S40-RH-TP  | QTP3x40T12/277RSN-B  | B340R277HP   | N/A               |
| <b>QUICKTRONIC® PROFESSIONAL CF - UNIVERSAL VOLTAGE</b>   |                      |  |                   |
| <b>CF T4 PROStart® - Programmed RapidStart - Normal Ballast Factor - &lt;10% THD</b>  |                      |  |                   |
| CFL Products run multiple lamp combinations and have various mounting/case sizes. (refer to actual product specs)                                   |                      |  |                   |

| ADVANCE        | SYLVANIA               | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | HOWARD INDUSTRIES | ESI (Energy Savings Inc is no longer in business) |
|----------------|------------------------|--|-------------------|---|
| ICF-2S13-H1-LD | QTP1/2x13CF/UNVBS      | C213UNV-BE   | PSM213CQMVB       | ES-2/1-CFQ-13/10-UNV-C                            |
| ICF-2S13-H1-LD | QTP1/2x13CF/UNVTS      | C213UNV-SE   | PSM213CQMV        | ES-2/1-CFQ-13/10-UNV-D                            |
| ICF-2S18-H1-LD | QTP1/2x18CF/UNVBS      | C218UNV-BE   | PSM218CQMVB       | ES-2/1-CFQ-18-UNV-C                               |
| ICF-2S18-H1-LD | QTP1/2x18CF/UNVTS      | C218UNV-SE   | PSM218CQMV        | ES-2/1-CFQ-18-UNV-D                               |
| ICF-2S26-H1-LD | QTP2x26CF/UNVBS        | C2642UNV-BE  | PSG242TRMVB       | ES-2/1-CFQ-26-UNV-C                               |
| ICF-2S26-H1-LD | QTP2x26CF/UNVTS        | C2642UNV-SE  | PSG242TRMV        | ES-2/1-CFQ-26-UNV-D                               |
| ICF-2S42-M2-LS | QTP2x26/32/42CF/UNVBM  | C242UNV-BE   | PSG242TRMVB       | ES-2-CFH-42/32/26-UNV-H                           |
| ICF-2S42-M2-BS | QTP2x26/32/42CF/UNVPM  | C242UNV-BES  | PSG242TRMVBS      | N/A   |
| ICF-2S42-M2-LD | QTP2x26/32/42CF/UNVTM  | C242UNV-SE   | N/A               | ES-2-CFH-42/32/26-UNV-G                           |
| ICF-2S42-M2-LS | QTP1x57CF/UNVBM (1X57) | C242UNV-BE   | N/A               | N/A   |
| ICF-1Q70-M3-LD | QTP1x57CF/UNVBM (1X70) | C242UNV-BE   | N/A               | N/A   |
| ICF-2S42-M2-BS | QTP1x57CF/UNVPM (1X57) | C242UNV-BES  | N/A               | N/A   |
| ICF-1Q70-M3-BS | QTP1x57CF/UNVPM (1X70) | C242UNV-BES  | N/A               | N/A   |

\*MagneTek Lighting has changed it's name to Universal Lighting Technologies.

## Manufacturers' Cross Reference Guide (continued)

### MAGNETIC FLUORESCENT LAMP BALLASTS

| ADVANCE   | SYLVANIA                  | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | VALMONT |
|---|---------------------------|--|---------|
| <b>T12 RAPID START</b>                                  |                           |  |         |
| <b>F30T12 Rapid Start - High Power Factor</b>           |                           |  |         |
| R2SP30TP Mark III                                       | MB2x30/120RS-SRNK         | 573LTCP  | 8G3971W |
| V2SP30TP Mark III                                       | MB2x30/277RS-SRNK         | 588LTCP  | 8G3972W |
| <b>F40T12 Rapid Start - High Power Factor</b>           |                           |  |         |
| R140TP Mark III   | MB1x40/120RS-SRNK         | 412LSLHTCP   | 8G1074W |
| V140TP Mark III   | MB1x40/277RS-SRNK         | 458LSLHTCP   | 8G1084W |
| R2S40TP Mark III  | MB2x40/120RS-SRNK         | 446LSLHTCP   | 8G1024W |
| V2S40TP Mark III  | MB2x40/277RS-SRNK         | 443LSLHTCP   | 8G1034W |
| <b>F40T12 Rapid Start - Normal Power Factor</b>         |                           |  |         |
| RL140TP   | MB1x40/120RES-SRNK        | 413CTCP  | 8G1075  |
| <b>T12 INSTANT START SLIMLINE</b>                       |                           |  |         |
| <b>F48T12 Instant Start - High Power Factor</b>         |                           |  |         |
| SM2E40STP   | MB2x48/120IS-SRNK         | 213TCP   | 8G1600W |
| VSM2E40STP  | MB2x48/277IS-SRNK         | 532BRTCP   | 8G1710W |
| <b>F96T12 Instant Start - High Power Factor</b>         |                           |  |         |
| RSM175STP   | MB1x96/120IS-SRNK         | 822BRTCP   | 8G1762W |
| VSM175STP   | MB1x96/277IS-SRNK         | 828BRTCP   | 8G1764W |
| R2E75STP Mark III                                       | MB2x96/120IS-SRNK         | 806SLHTCP  | 8G1004W |
| V2E75STP Mark III                                       | MB2x96/277IS-SRNK         | 827SLHTCP  | 8G1014W |
| <b>T12/HO RAPID START</b>                               |                           |  |         |
| <b>F96T12/HO Rapid Start - High Power Factor</b>        |                           |  |         |
| RS110TP   | MB1x96/HO/120RS-SRNK      | 481LHTCP   | ---     |
| VS110TP   | MB1x96/HO/277RS-SRNK      | 479LHTCP   | ---     |
| R2S110TP Mark III                                       | MB2x96/HO/120RS-SRNK      | 480SLHTCP  | ---     |
| V2S110TP Mark III                                       | MB2x96/HO/277RS-SRNK      | 487SLHTCP  | ---     |
| RS110TP   | MB1/2x48/96/HO/120RS-SRNK | 490XLHTCP  | ---     |
| <b>T12/VHO RAPID START</b>                              |                           |  |         |
| <b>F96T12/VHO Rapid Start - High Power Factor</b>       |                           |  |         |
| RC2S102TP   | MB1x96/VHO/120RS-SRNK     | 951STCP  | ---     |
| VC2S102TP   | MB1x96/VHO/277RS-SRNK     | 957STCP  | ---     |
| RS2S200TP   | MB2x96/VHO/120RS-SRNK     | 930KTCP  | 8G1201W |
| VS2S200TP   | MB2x96/VHO/277RS-SRNK     | 937KTCP  | 8G1211W |
| <b>T12/HO SIGN BALLASTS</b>                             |                           |  |         |
| <b>T12/HO Rapid Start</b>                               |                           |  |         |
| ASB-0412-12-BL-TP                                       | MSB-12-0412-TP            | USB-0412-12  | ---     |
| ASB-0620-24-BL-TP                                       | MSB-24-0620-TP            | USB-0816-14  | ---     |
| ASB-1224-24-BL-TP                                       | MSB-24-1224-TP            | USB-1024-14  | ---     |
| ASB-2040-24-BL-TP                                       | MSB-24-2040-TP            | USB-1632-24  | ---     |
| ASB-1240-46-BL-TP                                       | MSB-46-1240-TP            | USB-2036-46  | ---     |
| ASB-2448-46-BL-TP                                       | MSB-46-2448-TP            | USB-2048-46  | ---     |
| <b>T5, T8 AND T12 PREHEAT/TRIGGER START</b>             |                           |  |         |
| <b>F8T5 Preheat Start - Normal Power Factor</b>         |                           |  |         |
| LSX113TP  | MB1x8/120PH/TP/S          | ---  | ---     |
| <b>F15T12 Trigger Start - Normal Power Factor</b>       |                           |  |         |
| RLQ120TP  | MB1x15/120PH/TP           | 546BTCP  | 8G3560  |
| <b>F20T12 Preheat Start - Normal Power Factor</b>       |                           |  |         |
| LC1420CTP   | MB1x20/120PH/TP           | 200H2P   | ---     |
| LC1420C   | MB1x20/120PH              | 200H2  | 89G457  |
| <b>F20T12 Trigger Start - Normal Power Factor</b>       |                           |  |         |
| RL2SP20TP   | MB2x20/120PH/TP           | 447LRTCP   | 8G3912  |
| <b>T8 RAPID START</b>                                   |                           |  |         |
| <b>F017T8 Rapid Start - Normal Power Factor</b>         |                           |  |         |
| ---   | MB1x17/120RS              | 707TCP   | ---     |
| <b>F025T8 or F032T8 Rapid Start - High Power Factor</b> |                           |  |         |
| ---   | MB1x25/32/120RS-LW        | M132R120   | ---     |
| R1P825TP & R1P32TP Mark III                             | MB1x25/32/120RS-SRNK      | 727LTCP & M132R120                                   | ---     |
| V1P825TP & V1P32TP Mark III                             | MB1x25/32/277RS-SRNK      | 728LTCP & M132R277C                                  | ---     |
| R2P825TP & R2P32TP Mark III                             | MB2x25/32/120RS-SRNK      | 731LTCP & M232SR120C                                 | ---     |
| V2P825TP & V2P32TP Mark III                             | MB2x25/32/277RS-SRNK      | 732LTCP & M232SR277C                                 | ---     |

**Manufacturers' Cross Reference (continued)**

**MAGNETIC FLUORESCENT LAMP BALLASTS**

| ADVANCE  | SYLVANIA       | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* | VALMONT   |
|--|----------------|--|-----------|
| <b>T9 CIRCLINE RAPID START</b>                                     |                |  |           |
| <b>FC8T9 Circline Rapid Start - Normal Power Factor</b>            |                |  |           |
| RLQS122TPW   | MB1x22/120CIRC | 547RSWSTCP   | 8G1091G11 |
| <b>FC12T9 or FC16T9 Circline Rapid Start - Normal Power Factor</b> |                |  |           |
| RLCS140TPW   | MB1x32/120CIRC | 445RSWSTCP   | 8G1085G11 |

\*MagneTek Lighting has changed it's name to Universal Lighting Technologies.

**MAGNETIC HID LAMP BALLASTS**

| ADVANCE   | SYLVANIA              | UNIVERSAL LIGHTING TECHNOLOGIES (formerly Magnetek)* |                                | VENTURE LIGHTING | HOWARD INDUSTRIES |
|---|-----------------------|--|--------------------------------|------------------|-------------------|
|   |                       | OLD PART NUMBER                                      | NEW PART NUMBER                |                  |                   |
| <b>METALARC® METAL HALIDE CORE &amp; COIL BALLAST KITS</b>                    |                       |  |                                |                  |                   |
| <b>35W Metal Halide Lamp - ANSI Code M130</b>                                 |                       |  |                                |                  |                   |
| ---   | M35/MULTI-HQ/CI-KIT   | ---  | ---                            | ---              | ---               |
| 71A5081   | M35/120/277-KIT       | ---  | ---                            | ---              | ---               |
| <b>50W Metal Halide Lamp - ANSI Code M110 or M148</b>                         |                       |  |                                |                  |                   |
| ---   | M50/MULTI-KIT         | ---  | M50MLTLC3M & M50MLTLC3M-500K   | V90D5731K        | ---               |
| 71A5181   | M50/120/277-KIT       | 11310-236-500K                                       | ---                            | V90H5731K        | ---               |
| <b>70W Metal Halide Lamp - ANSI Code M98 or M143</b>                          |                       |  |                                |                  |                   |
| 71A5292 & 71A5292-001D  | M70/MULTI-KIT         | 11310-510-500K                                       | M70MLTLC3M & M70MLTLC3M-500K   | V90D5832K        | ---               |
| 71A5282   | M70/120/277-KIT       | ---  | ---                            | V90H5832K        | ---               |
| <b>70W Metal Halide Lamp - ANSI Code M98 or M143 or M85</b>                   |                       |  |                                |                  |                   |
| ---   | M70/MULTI-HQ/CI-KIT   | ---  | ---                            | V90D5810K        | ---               |
| <b>100W Metal Halide Lamp - ANSI Code M90 or M140</b>                         |                       |  |                                |                  |                   |
| 71A5390 & 71A5390-001D  | M100/MULTI-KIT        | 11310-90-500K  | M100MLTLC3M & M100MLTLC3M-500K | V90D5932K        | M010071C511K      |
| 71A5380   | M100/120/277-KIT      | ---  | ---                            | V90H5932K        | ---               |
| <b>150W Metal Halide Lamp, Medium Base - ANSI Code M102 or M142</b>           |                       |  |                                |                  |                   |
| 71A5492   | M150/MULTI-PS-KIT     | 11310-543-500K                                       | M150MLTLC3M & M150MLTLC3M-500K | V90D7130K        | ---               |
| ---   | M150/MULTI-PS-CWA-KIT | ---  | ---                            | V90D7110K        | ---               |
| 71A5482   | M150/120/277-PS-KIT   | ---  | ---                            | ---              | ---               |
| <b>150W Metal Halide Lamp, Double-Ended - ANSI Code M81</b>                   |                       |  |                                |                  |                   |
| 71A5490   | M150/MULTI-KIT        | 11310-177-500K                                       | M150MLTLC3D & M150MLTLC3D-500K | ---              | ---               |
| <b>175W Metal Halide Lamp - ANSI Code M57 or Mercury Lamp - ANSI Code H39</b> |                       |  |                                |                  |                   |
| ---   | M175/SUPER5-KIT       | ---  | M175ML5AC3M & M175ML5AC3M-500K | ---              | ---               |
| 71A5590 & 71A5570-001D  | M175/MULTI-KIT        | 1130-91R-500K  | M175MLTAC3M & M175MLTAC3M-500K | V90D6111K        | M017571C211K      |
| 71A5540 & 71A5540-001D  | M175/480-KIT          | 1130-31-500K   | ---                            | ---              | ---               |
| 71A5540T  | M175/480/120T-KIT     | ---  | M17548TAC3M & M17548TAC3M-500K | ---              | ---               |
| 71A5580   | M175/120/277-KIT      | 1130-245R-500K                                       | ---                            | ---              | ---               |
| <b>175W Metal Halide Pulse Start Lamp - ANSI Code M137</b>                    |                       |  |                                |                  |                   |
| 71A5593 & 71A5593-001D  | M175/MULTI-PS-KIT     | ---  | P175MLTAC3M & P175MLTAC3M-500K | V90D7210K        | ---               |
| ---   | M175/480-PS-KIT       | ---  | ---                            | ---              | ---               |
| <b>200W Metal Halide Pulse Start Lamp - ANSI Code M136</b>                    |                       |  |                                |                  |                   |
| 71A5692 & 71A5692-001D  | M200/MULTI-PS-KIT     | ---  | P200MLTAC3M & P200MLTAC3M-500K | V90D7310K        | ---               |
| ---   | M200/480/-PS-KIT      | ---  | ---                            | ---              | ---               |
| 71A5642T  | M200/480/120T-PS-KIT  | ---  | P20048TAC3M & P20048TAC3M-500K | V90Y7310TK       | ---               |

## Manufacturers' Cross Reference Guide (continued)

### MAGNETIC HID LAMP BALLASTS

| ADVANCE  | SYLVANIA                          | UNIVERSAL LIGHTING TECHNOLOGIES<br>(formerly Magnetek)* |                                     | VENTURE<br>LIGHTING | HOWARD<br>INDUSTRIES |
|--|-----------------------------------|---|-------------------------------------|---------------------|----------------------|
|  |                                   | OLD PART NUMBER   | NEW PART NUMBER                     |                     |                      |
| <b>250W Metal Halide Lamp - ANSI Code M58 or Mercury Lamp - ANSI Code H37</b>  |                                   |   |                                     |                     |                      |
| 71A5750 & 71A5750-001D   | M250/SUPER5-KIT                   | ---   | M250ML5AC4M &<br>M250ML5AC4M-500K   | ---                 | ---                  |
| 71A5790 & 71A5770-001D   | M250/MULTI-KIT                    | 1130-92R-500K   | M250MLTAC4M &<br>M250MLTAC4M-500K   | V90D6212K           | M025071C211K         |
| 71A5740 & 71A5740-001D<br>71A5740T   | M250/480-KIT<br>M250/480/120T-KIT | 1130-32R-500K<br>---                                    | ---                                 | ---                 | M025011C211K         |
| 71A5791 & 71A5771-001D   | M250/MULTI 3X4-KIT                | 1130-92-500K  | M25048TAC4M &<br>M25048TAC4M-500K   | V90Y6212TK          | ---                  |
| 71A5741 & 71A5741-001D   | M250/480-3X4-KIT                  | 1130-32-500K  | M250MLTAC3M &<br>M250MLTAC3M-500K   | V90D6211K           | ---                  |
| 71A5741 & 71A5741-001D   | M250/480-3X4-KIT                  | 1130-32-500K  | ---                                 | V90Y6211K           | ---                  |
| <b>250W Metal Halide Lamp - ANSI Code M80</b>                                  |                                   |   |                                     |                     |                      |
| 71A5880  | M250/120/277-KIT                  | ---   | ---                                 | ---                 | ---                  |
| <b>250W Metal Halide Pulse Start Lamp - ANSI Code M138</b>                     |                                   |   |                                     |                     |                      |
| ---  | M250/SUPER5-PS-KIT                | ---   | ---                                 | ---                 | ---                  |
| 71A5792 & 71A5792-001D   | M250/MULTI-PS-KIT                 | ---   | P250MLTAC4M &<br>P250MLTAC4M-500K   | V90D8410K           | M025071C611K         |
| ---  | M250/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| ---  | M250/480/120T-PS-KIT              | ---   | P25048TAC4M &<br>P25048TAC4M-500K   | ---                 | ---                  |
| <b>320W Metal Halide Pulse Start Lamp - ANSI Code M132</b>                     |                                   |   |                                     |                     |                      |
| 71A5892 & 71A5892-001D   | M320/MULTI-PS-KIT                 | ---   | P320MLTAC4M &<br>P320MLTAC4M-500K   | V90D7411K           | M032071C611K         |
| ---  | M320/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| 71A5842T   | M320/480/120T-PS-KIT              | ---   | P32048TAC4M &<br>P32048TAC4M-500K   | V90Y7411TK          | ---                  |
| <b>350W Metal Halide Pulse Start Lamp - ANSI Code M131</b>                     |                                   |   |                                     |                     |                      |
| 71A5993 & 71A5993-001D   | M350/MULTI-PS-KIT                 | ---   | P350MLTAC4M &<br>P350MLTAC4M-500K   | V90D7512K           | M035071C611K         |
| ---  | M350/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| 71A5943T   | M350/480/120T-PS-KIT              | ---   | P35048TAC4M &<br>P35048TAC4M-500K   | V90Y7512TK          | ---                  |
| <b>400W Metal Halide Lamp - ANSI Code M59 or Mercury Lamp - ANSI Code H33</b>  |                                   |   |                                     |                     |                      |
| 71A6051 & 71A6051-001D   | M400/SUPER5-KIT                   | ---   | M400ML5AC4M &<br>M400ML5AC4M-500K   | ---                 | M040081C211K         |
| 71A6091 & 71A6071-001D   | M400/MULTI-KIT                    | 1130-93R-500K   | M400MLTAC4M &<br>M400MLTAC4M-500K   | V90D6413K           | M040071C211K         |
| 71A6041 & 71A6041-001D<br>71A6041T   | M400/480-KIT<br>M400/480/120T-KIT | 1130-33R-500K<br>---                                    | ---                                 | ---                 | M040011C211K         |
| 71A6041T   | M400/480/120T-KIT                 | ---   | M40048TAC4M &<br>M40048TAC4M-500K   | V90Y6413TK          | ---                  |
| <b>400W Metal Halide Pulse Start Lamp - ANSI Code M135</b>                     |                                   |   |                                     |                     |                      |
| ---  | M2x400/120/240-KIT                | ---   | ---                                 | ---                 | ---                  |
| ---  | M400/SUPER5-PS-KIT                | ---   | ---                                 | ---                 | ---                  |
| 71A6092 & 71A6092-001D   | M400/MULTI-PS-KIT                 | ---   | P400MLTAC4M &<br>P400MLTAC4M-500K   | V90D7612K           | M040071C611K         |
| ---  | M400/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| 71A6042T   | M400/480/120T-PS-KIT              | ---   | P40048TAC4M &<br>P40048TAC4M-500K   | V90Y7612TK          | ---                  |
| <b>450W Metal Halide Pulse Start Lamp - ANSI Code M144</b>                     |                                   |   |                                     |                     |                      |
| 71A6393  | M450/MULTI-PS-KIT                 | ---   | P450MLTAC4M &<br>P450MLTAC4M-500K   | V90D8512K           | ---                  |
| ---  | M450/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| 71A6343T   | M450/480/120T-PS-KIT              | ---   | ---                                 | V90Y8511TK          | ---                  |
| <b>750W Metal Halide Pulse Start Lamp - ANSI Code M149</b>                     |                                   |   |                                     |                     |                      |
| 71A64E2  | M750/MULTI-PS-KIT                 | ---   | P750MLTAC5M &<br>P750MLTAC5M-500K   | V90D7910K           | ---                  |
| 71A64F2T   | M750/120/277/347/480-PS-KIT       | ---   | ---                                 | V90J7910K           | ---                  |
| ---  | M750/480-PS-KIT                   | ---   | ---                                 | ---                 | ---                  |
| <b>1000W Metal Halide Lamp - ANSI Code M47 or Mercury Lamp - ANSI Code H36</b> |                                   |   |                                     |                     |                      |
| 71A6552 & 71A6552-001  | M1000/SUPER5-KIT                  | ---   | M1000ML5AC5M &<br>M1000ML5AC5M-500K | V90AM6514K          | ---                  |

CROSS REFERENCE

**Manufacturers' Cross Reference (continued)**

**MAGNETIC HID LAMP BALLASTS**

| ADVANCE  | SYLVANIA                     | UNIVERSAL LIGHTING TECHNOLOGIES<br>(formerly Magnetek)* |                                     | VENTURE<br>LIGHTING | HOWARD<br>INDUSTRIES |
|--|------------------------------|---|-------------------------------------|---------------------|----------------------|
|  |                              | OLD PART NUMBER   | NEW PART NUMBER                     |                     |                      |
| <b>1000W Metal Halide Lamp - ANSI Code M47 or Mercury Lamp - ANSI Code H36 (continued)</b> |                              |   |                                     |                     |                      |
| 71A6592 & 71A6572-001  | M1000/MULTI-KIT              | 1130-97-500K  | M1000MLTAC5M &<br>M1000MLTAC5M-500K | V90D6514K           | M0100071C212K        |
| 71A6542 & 71A6542-001  | M1000/480-KIT                | 1130-57-500K  | M1000480AC5M &<br>M1000480AC5M-500K | ---                 | M0100011C212K        |
| 71A6542T   | M1000/480/120T-KIT           | ---   | M100048TAC5M &<br>M100048TAC5M-500K | V90Y6514TK          | ---                  |
| <b>1000W HQI Metal Halide Lamp</b>   |                              |   |                                     |                     |                      |
| ---  | M1000/MULTI-HQI-KIT          | ---   | ---                                 | ---                 | ---                  |
| <b>1000W Metal Halide Pulse Start Lamp - ANSI Code M141</b>                                |                              |   |                                     |                     |                      |
| 71A6593  | M1000/MULTI-PS-KIT           | ---   | P1000MLTAC5M &<br>P1000MLTAC5M-500K | V90D7810K           | ---                  |
| 71A65F3T   | M1000/120/277/347/480-PS-KIT | ---   | ---                                 | V90J7810K           | ---                  |
| ---  | M1000/480-PS-KIT             | ---   | ---                                 | ---                 | ---                  |
| <b>1500W Metal Halide Lamp - ANSI Code M48</b>   |                              |   |                                     |                     |                      |
| 71A6792 & 71A6772-001  | M1500/MULTI-KIT              | 1130-99R-500K   | M1500MLTAC5M &<br>M1500MLTAC5M-500K | V90D6612K           | M0150071C212K        |
| 71A6742 & 71A6742-001  | M1500/480-KIT                | 1130-69R-500K   | M1500480AC5M &<br>M1500480AC5M-500K | ---                 | M0150011C212K        |
| ---  | M1500/480/120T-KIT           | ---   | M150048TAC5M &<br>M150048TAC5M-500K | V90Y6612TK          | ---                  |
| <b>2000W HQI Metal Halide Lamp</b>   |                              |   |                                     |                     |                      |
| ---  | M2000/277/347/480-HQI-RL-KIT | ---   | ---                                 | ---                 | ---                  |
| <b>METALARC® METAL HALIDE F-CAN HID BALLASTS</b>   |                              |   |                                     |                     |                      |
| <b>35W Metal Halide Lamp - ANSI Code M130</b>  |                              |   |                                     |                     |                      |
| 72C5081-NP   | M35/120/277/F-CAN            | ---   | ---                                 | ---                 | ---                  |
| <b>50W Metal Halide Lamp - ANSI Code M110</b>  |                              |   |                                     |                     |                      |
| 72C5181-NP&72C5181-NP-001  | M50/120/277/F-CAN            | ---   | 11210-236C-TC                       | ---                 | ---                  |
| <b>70W Metal Halide Lamp - ANSI Code M139</b>  |                              |   |                                     |                     |                      |
| 72C5281-NP   | M70/120/277/F-CAN            | ---   | ---                                 | ---                 | ---                  |
| <b>70W Metal Halide Lamp - ANSI Code M98 or M143</b>                                       |                              |   |                                     |                     |                      |
| 72C5282-NP&72C5282-NP-001  | M70/120/277/F-CAN            | ---   | 11210-506C-TC                       | ---                 | ---                  |
| <b>100W Metal Halide Lamp - ANSI Code M90 or M140</b>                                      |                              |   |                                     |                     |                      |
| 72C5381-NP&72C5381-NP-001  | M100/120/277/F-CAN           | ---   | 11210-239C-TC                       | ---                 | ---                  |
| <b>150W Metal Halide Lamp, Medium Base - ANSI Code M102 or M142</b>                        |                              |   |                                     |                     |                      |
| ---  | M150-PS/120/277/F-CAN        | ---   | ---                                 | ---                 | ---                  |
| <b>175W Metal Halide Lamp - ANSI Code M57 or Mercury Lamp - ANSI Code H39</b>              |                              |   |                                     |                     |                      |
| 72C5581-NP&72C5581-NP-001  | M175/120/277/F-CAN           | ---   | 1110-245SC-TC                       | ---                 | ---                  |
| <b>175W Metal Halide Pulse Start Lamp - ANSI Code M137</b>                                 |                              |   |                                     |                     |                      |
| 72C5582-NP&72C5582-NP-001  | M175-PS/120/277/F-CAN        | ---   | ---                                 | ---                 | ---                  |
| <b>200W Metal Halide Pulse Start Lamp - ANSI Code M136</b>                                 |                              |   |                                     |                     |                      |
| ---  | M200-PS/120/277/F-CAN        | ---   | ---                                 | ---                 | ---                  |
| <b>250W Metal Halide Lamp - ANSI Code M58 or Mercury Lamp ANSI Code H37</b>                |                              |   |                                     |                     |                      |
| 72C5782-NP&72C5782-NP-001  | M250/120/277/F-CAN           | ---   | 1110-246C-TC                        | ---                 | ---                  |
| <b>250W Metal Halide Pulse Start Lamp - ANSI Code M138</b>                                 |                              |   |                                     |                     |                      |
| 72C5783-NP&72C5783-NP-001  | M250-PS/120/277/F-CAN        | ---   | ---                                 | ---                 | ---                  |
| <b>320W Metal Halide Pulse Start Lamp - ANSI Code M132</b>                                 |                              |   |                                     |                     |                      |
| 72C5882-NP&72C5882-NP-001  | M320-PS/120/277/F-CAN        | ---   | P320277AFXM                         | ---                 | ---                  |
| <b>400W Metal Halide Lamp - ANSI Code M59 or Mercury Lamp - ANSI Code H33</b>              |                              |   |                                     |                     |                      |
| 72C6082-NP&72C6082-NP-001  | M400/120/277/F-CAN           | ---   | 1110-247SC-TC                       | ---                 | ---                  |
| <b>400W Metal Halide Pulse Start Lamp - ANSI Code M135</b>                                 |                              |   |                                     |                     |                      |
| 72C6182-NP&72C6182-NP-001  | M400-PS/120/277/F-CAN        | ---   | ---                                 | ---                 | ---                  |
| <b>METALARC® METAL HALIDE INDOOR ENCLOSED HID BALLASTS</b>                                 |                              |   |                                     |                     |                      |
| <b>175W Metal Halide Lamp - ANSI Code M57 or Mercury Lamp - ANSI Code H39</b>              |                              |   |                                     |                     |                      |
| 78E5590-001  | M175/MULTI-I/D               | ---   | 337-1770                            | ---                 | ---                  |
| <b>250W Metal Halide Lamp - ANSI Code M58 or Mercury Lamp - ANSI Code H37</b>              |                              |   |                                     |                     |                      |
| 78E5790-001  | M250/MULTI-I/D               | ---   | 337-1750                            | ---                 | ---                  |
| <b>400W Metal Halide Lamp - ANSI Code M59 or Mercury Lamp - ANSI Code H33</b>              |                              |   |                                     |                     |                      |
| 78E6091-001  | M400/MULTI-I/D               | ---   | 337-1780                            | ---                 | ---                  |
| <b>1000W Metal Halide Lamp - ANSI Code M47 or Mercury Lamp - ANSI Code H36</b>             |                              |   |                                     |                     |                      |
| 78E6592-001  | M1000/MULTI-I/D              | ---   | 337-1790                            | ---                 | ---                  |

**Manufacturers' Cross Reference Guide (continued)**

**MAGNETIC HID LAMP BALLASTS**

| ADVANCE   | SYLVANIA           | UNIVERSAL LIGHTING TECHNOLOGIES<br>(formerly Magnetek)* |                                   | VENTURE<br>LIGHTING      | HOWARD<br>INDUSTRIES |
|---|--------------------|---|-----------------------------------|--------------------------|----------------------|
|   |                    | OLD PART NUMBER   | NEW PART NUMBER                   |                          |                      |
| <b>LUMALUX® HIGH PRESSURE SODIUM CORE &amp; COIL REACTOR BALLASTS</b> |                    |   |                                   |                          |                      |
| <b>35W High Pressure Sodium Lamp - ANSI Code S76</b>                  |                    |   |                                   |                          |                      |
| 71A7707   | LU35/120R          | 1233-251U   | ---                               | ---                      | ---                  |
| 71A7707B  | LU35/120R-INT      | ---   | ---                               | ---                      | ---                  |
| <b>50W High Pressure Sodium Lamp - ANSI Code S68</b>                  |                    |   |                                   |                          |                      |
| 71A7807   | LU50/120R          | 1233-35U  | ---                               | ---                      | ---                  |
| 71A7807B  | LU50/120R-INT      | ---   | ---                               | ---                      | ---                  |
| <b>70W High Pressure Sodium Lamp - ANSI Code S62</b>                  |                    |   |                                   |                          |                      |
| 71A7907   | LU70/120R          | 1233-142U   | ---                               | ---                      | ---                  |
| 71A7907B  | LU70/120R-INT      | ---   | ---                               | ---                      | ---                  |
| <b>100W High Pressure Sodium Lamp - ANSI Code S54</b>                 |                    |   |                                   |                          |                      |
| 71A8007   | LU100/120R         | 1233-10U  | ---                               | ---                      | ---                  |
| 71A8007B  | LU100/120R-INT     | ---   | ---                               | ---                      | ---                  |
| <b>150W High Pressure Sodium Lamp - ANSI Code S55</b>                 |                    |   |                                   |                          |                      |
| 71A8107   | LU150/120R         | 1233-154U   | ---                               | ---                      | ---                  |
| 71A8107B  | LU150/120R-INT     | ---   | ---                               | ---                      | ---                  |
| <b>LUMALUX® HIGH PRESSURE SODIUM CORE &amp; COIL BALLAST KITS</b>     |                    |   |                                   |                          |                      |
| <b>35W High Pressure Sodium Lamp - ANSI Code S76</b>                  |                    |   |                                   |                          |                      |
| ---   | LU35/120/240-KIT   | ---   | ---                               | ---                      | ---                  |
| <b>50W High Pressure Sodium Lamp - ANSI Code S68</b>                  |                    |   |                                   |                          |                      |
| 71A7801 & 71A7801-001D  | LU50/120/277-KIT   | 12310-236-500K  | ---                               | V90H1132K                | ---                  |
| <b>70W High Pressure Sodium Lamp - ANSI Code S62</b>                  |                    |   |                                   |                          |                      |
| 71A7991 & 71A7971-001D  | LU70/MULTI-KIT     | 12310-153-500K  | S70MLTLC3M &<br>S70MLTLC3M-500K   | V90D1233K                | S007071C511K         |
| 71A7941   | LU70/480-KIT       | 12310-148R-500K   | ---                               | ---                      | ---                  |
| 71A7901   | LU70/120/277-KIT   | 12310-237-500K  | ---                               | ---                      | ---                  |
| <b>100W High Pressure Sodium Lamp - ANSI Code S54</b>                 |                    |   |                                   |                          |                      |
| 71A8091 & 71A8071-001D  | LU100/MULTI-KIT    | 12310-90-500K   | S100MLTLC3M &<br>S100MLTLC3M-500K | V90D1333K                | S010071C511K         |
| 71A8041 & 71A8041-001D  | LU100/480-KIT      | 12310-30R-500K  | ---                               | ---                      | ---                  |
| 71A8001   | LU100/120/277-KIT  | 12310-239-500K  | ---                               | ---                      | ---                  |
| <b>150W High Pressure Sodium Lamp - ANSI Code S55</b>                 |                    |   |                                   |                          |                      |
| 71A8192 & 71A8172-001D  | LU150/MULTI-KIT    | 12310-165-500K  | S150MLTLC3M &<br>S150MLTLC3M-500K | V90D1435K                | S015071C511K         |
| 71A8142 & 71A8142-001D  | LU150/480-KIT      | 12310-160S-500K   | ---                               | ---                      | ---                  |
| 71A8142T  | LU150/480/120T-KIT | ---   | S15048TLC3M &<br>S15048TLC3M-500K | ---                      | ---                  |
| 71A8102   | LU150/120/277-KIT  | 12310-241-500K  | ---                               | ---                      | ---                  |
| 71A8148   | LU150/480-CWA-KIT  | ---   | ---                               | ---                      | ---                  |
| <b>200W High Pressure Sodium Lamp - ANSI Code S66</b>                 |                    |   |                                   |                          |                      |
| 71A8990 & 71A8970-001D  | LU200/MULTI-KIT    | 1230-190-500K   | S200MLTAC4M &<br>S200MLTAC4M-500K | V90D1610K                | ---                  |
| 71A8940 & 71A8940-001D  | LU200/480-KIT      | 1230-186-500K   | ---                               | ---                      | ---                  |
| <b>250W High Pressure Sodium Lamp - ANSI Code S50</b>                 |                    |   |                                   |                          |                      |
| 71A8251 & 71A8251-001D  | LU250/SUPER5-KIT   | ---   | S250ML5AC4M &<br>S250ML5AC4M-500K | ---                      | ---                  |
| 71A8291 & 71A8271-001D  | LU250/MULTI-KIT    | 1230-92S-500K   | S250MLTAC4M &<br>S250MLTAC4M-500K | V90D1711K                | S025071C211K         |
| 71A8241 & 71A8241-001D  | LU250/480-KIT      | 1230-32S-500K   | ---                               | ---                      | ---                  |
| 71A8241T  | LU250/480/120T-KIT | ---   | S25048TAC4M &<br>S25048TAC4M-500K | ---                      | ---                  |
| 71A8281   | LU250/120/277-KIT  | 1230-246S-500K  | ---                               | ---                      | ---                  |
| <b>310W High Pressure Sodium Lamp - ANSI Code S67</b>                 |                    |   |                                   |                          |                      |
| 71A8391 & 71A8371-001D  | LU310/MULTI-KIT    | ---   | ---                               | V90D1810K                | ---                  |
| 71A8341   | LU310/480-KIT      | ---   | ---                               | ---                      | ---                  |
| <b>400W High Pressure Sodium Lamp - ANSI Code S51</b>                 |                    |   |                                   |                          |                      |
| 71A8453 & 71A8453-001D  | LU400/SUPER5-KIT   | ---   | S400ML5AC4M &<br>S400ML5AC4M-500K | ---                      | ---                  |
| 71A8493 & 71A8473-001D  | LU400/MULTI-KIT    | 1230-93U-500K   | S400MLTAC4M &<br>S400MLTAC4M-500K | V90D1911K /<br>V90D1912K | S040071C211K         |
| 71A8443 & 71A8443-001D  | LU400/480-KIT      | 1230-33U-500K   | ---                               | ---                      | S040011C211K         |

CROSS REFERENCE



**Manufacturers' Cross Reference (continued)**

**MAGNETIC HID LAMP BALLASTS**

| ADVANCE   | SYLVANIA            | UNIVERSAL LIGHTING TECHNOLOGIES<br>(formerly Magnetek)* |                                     | VENTURE<br>LIGHTING | HOWARD<br>INDUSTRIES |
|---|---------------------|---|-------------------------------------|---------------------|----------------------|
|   |                     | OLD PART NUMBER   | NEW PART NUMBER                     |                     |                      |
| <b>400W High Pressure Sodium Lamp - ANSI Code S51 (continued)</b> |                     |   |                                     |                     |                      |
| 71A8443T  | LU400/480/120T-KIT  | ---   | S40048TAC4M &<br>S40048TAC4M-500K   | ---                 | ---                  |
| ---   | LU400/120/277-KIT   | ---   | ---                                 | ---                 | ---                  |
| <b>750W High Pressure Sodium Lamp - ANSI Code S111</b>            |                     |   |                                     |                     |                      |
| 71A86E5   | LU750/MULTI-KIT     | ---   | ---                                 | ---                 | ---                  |
| ---   | LU750/480-KIT       | ---   | ---                                 | ---                 | ---                  |
| <b>1000W High Pressure Sodium Lamp - ANSI Code S52</b>            |                     |   |                                     |                     |                      |
| 71A8753 & 71A8753-001   | LU1000/SUPER5-KIT   | ---   | S1000ML5AC5M &<br>S1000ML5AC5M-500K | ---                 | ---                  |
| 71A8793 & 71A8773-001   | LU1000/MULTI-KIT    | 1230-97S-500K   | S1000MLTAC5M &<br>S1000MLTAC5M-500K | V90D2311K           | S100071C211K         |
| 71A8743 & 71A8743-001   | LU1000/480-KIT      | 1230-57S-500K   | ---                                 | ---                 | S100011C211K         |
| <b>LUMALUX® HIGH PRESSURE SODIUM F-CAN HID BALLASTS</b>           |                     |   |                                     |                     |                      |
| <b>35W High Pressure Sodium Lamp - ANSI Code S76</b>              |                     |   |                                     |                     |                      |
| ---   | LU35/120/277/F-CAN  | ---   | 12210-261C-TC                       | ---                 | ---                  |
| <b>50W High Pressure Sodium Lamp - ANSI Code S68</b>              |                     |   |                                     |                     |                      |
| 72C7884-NP & 72C7884-NP-001                                       | LU50/120/277/F-CAN  | ---   | 12210-236C-TC                       | ---                 | ---                  |
| <b>70W High Pressure Sodium Lamp - ANSI Code S62</b>              |                     |   |                                     |                     |                      |
| 72C7984-NP & 72C7984-NP-001                                       | LU70/120/277/F-CAN  | ---   | 12210-237C-TC                       | ---                 | ---                  |
| <b>100W High Pressure Sodium Lamp - ANSI Code S54</b>             |                     |   |                                     |                     |                      |
| 72C8084-NP & 72C8084-NP-001                                       | LU100/120/277/F-CAN | ---   | 12210-239C-TC                       | ---                 | ---                  |
| <b>150W High Pressure Sodium Lamp - ANSI Code S55</b>             |                     |   |                                     |                     |                      |
| ---   | LU150/120/277/F-CAN | ---   | ---                                 | ---                 | ---                  |
| <b>250W High Pressure Sodium Lamp - ANSI Code S50</b>             |                     |   |                                     |                     |                      |
| ---   | LU250/120/277/F-CAN | ---   | 1220-246C-TC                        | ---                 | ---                  |
| <b>400W High Pressure Sodium Lamp - ANSI Code S51</b>             |                     |   |                                     |                     |                      |
| ---   | LU400/120/277/F-CAN | ---   | ---                                 | ---                 | ---                  |
| <b>MERCURY CORE &amp; COIL BALLAST KITS</b>                       |                     |   |                                     |                     |                      |
| <b>50W Mercury Lamp - ANSI Code H46</b>                           |                     |   |                                     |                     |                      |
| ---   | H50/MULTI-KIT       | ---   | ---                                 | ---                 | ---                  |
| <b>75W Mercury Lamp - ANSI Code H43</b>                           |                     |   |                                     |                     |                      |
| 71A2080   | H75/MULTI-KIT       | ---   | ---                                 | ---                 | ---                  |
| <b>100W Mercury Lamp - ANSI Code H38 or H44</b>                   |                     |   |                                     |                     |                      |
| 71A2591 & 71A2571-001D  | H100/MULTI-KIT      | 1030-90R-500K   | H100MLTAC3M &<br>H100MLTAC3M-500K   | ---                 | ---                  |
| ---   | H100/277-KIT        | ---   | ---                                 | ---                 | ---                  |
| 71A2501   | H100/DUAL-KIT       | ---   | ---                                 | ---                 | ---                  |
| <b>175W Mercury Lamp - ANSI Code H39</b>                          |                     |   |                                     |                     |                      |
| 71A3092 & 71A3072-001D  | H175/MULTI-KIT      | 1030-91-500K  | H175MLTAC3M &<br>H175MLTAC3M-500K   | ---                 | ---                  |
| 71A3042 & 71A3042-001D  | H175/480-KIT        | 1030-31-500K  | ---                                 | ---                 | ---                  |
| <b>250W Mercury Lamp - ANSI Code H37</b>                          |                     |   |                                     |                     |                      |
| 71A3592 & 71A3572-001D  | H250/MULTI-KIT      | 1030-92-500K  | H250MLTAC3M &<br>H250MLTAC3M-500K   | ---                 | ---                  |
| 71A3542 & 71A3542-001D  | H250/480-KIT        | 1030-32-500K  | ---                                 | ---                 | ---                  |
| 71A3542T  | H250/480/120T-KIT   | ---   | H25048TAC3M &<br>H25048TAC3M-500K   | ---                 | ---                  |
| <b>400W Mercury Lamp - ANSI Code H33</b>                          |                     |   |                                     |                     |                      |
| 71A4091 & 71A4071-001D  | H400/MULTI-KIT      | 1030-93-500K  | H400MLTAC4M &<br>H400MLTAC4M-500K   | ---                 | ---                  |
| 71A4041 & 71A4041-001D  | H400/480-KIT        | 1030-33-500K  | ---                                 | ---                 | ---                  |
| 71A4041T  | H400/480/120T-KIT   | ---   | H40048TAC4M &<br>H40048TAC4M-500K   | ---                 | ---                  |
| ---   | H2X400/120-KIT      | ---   | ---                                 | ---                 | ---                  |
| ---   | H2X400/277-KIT      | ---   | ---                                 | ---                 | ---                  |
| <b>1000W Mercury Lamp - ANSI Code H36</b>                         |                     |   |                                     |                     |                      |
| 71A5070-001   | H1000/MULTI-KIT     | 1030-97-500K  | H1000MLTAC5M &<br>H1000MLTAC5M-500K | ---                 | ---                  |
| 71A5040-001   | H1000/480-KIT       | 1030-57-500K  | ---                                 | ---                 | ---                  |

\*MagneTek Lighting has changed it's name to Universal Lighting Technologies.

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