




Industrial Lighting

Contents

		INTRODUCTION	1-8
9-11		SURFACE/PENDANT MOUNTING FTL LUMINAIRES 	
		WELL GLASS LUMINAIRES	12-14
15-16		LOW BAY LUMINAIRES 	
		CANOPY LIGHTING LUMINAIRES	17-18
19-24		HIGH BAY AND MEDIUM BAY LUMINAIRES 	
		BULK HEAD LUMINAIRES	25-26
27-28		TECHNICAL & COMMERCIAL DETAILS 	

Introduction

The function of interior illumination is to provide human beings with an environment which contributes to their mental and physical well-being and prevents accidents. In addition, it should influence the mental state of the persons involved with the aim of achieving a higher degree of performance, combating premature fatigue and reducing errors. The choice of the right type of light sources and luminaires is therefore crucial for appropriate illumination in any industrial environment viz. factories, refineries, chemical/fertilizer plants, project sites etc.

In this catalogue, a wide range of Bajaj Industrial Lighting Luminaires for different applications are described along with the product photograph, line diagram, specification, electrical data, dimensional data, ingress protection categories (wherever applicable) and typical installation photograph, enabling the customer to select the right type of luminaire. Photometric data of each luminaire with different lamps and different lampholder positions are available on request.

Bajaj Range of Luminaires

Bajaj offers an internationally accepted range of Industrial Lighting Luminaires, with features that ensure efficient lighting, lower capital and running costs, less power consumption and greater employee comfort. These luminaires meet the requirement of indoor and outdoor industrial situations when used with different varieties of lamps.

Besides providing comfortable, glare-free working ambience, the computer-aided designed luminaires offer a choice of different light distribution. The reflectors are generally made of electrochemically brightened, polished, high purity anodised aluminium with stepped/multiple facets. It includes high bay, medium bay, low bay and Wellglass luminaires in both integral and non-integral designs. High quality, low loss control gear with power factor improving capacitor is incorporated in the luminaires as a significant add-on.

Bajaj's state-of-the-art technology, i.e. **GLASKOTE**[®] a thin layer of glass coating on the HID luminaire reflectors improve the life, efficiency and provides sustained illumination levels throughout the life. This allows light distribution spread to be uniform and distributed optimally, according to the space height ratio and enhanced economy through wider spacing possibilities. There are various other benefits which have been explained separately.

Whenever required, special finishes or higher degree of IP protection are provided to meet aggressive conditions prevailing in fertilizer plants, chemical plants, oil refineries, etc. Bulkhead and Wellglass luminaires with control gears suitable for dusty and humid atmosphere are in the range.

Basic concepts and fundamentals of planning

Basic term	Unit	Symbol	Definition
Luminous flux	Lumen (lm)	ϕ	The total quantity of light emitted from a light source
Luminous intensity	Candela (cd)	I	The luminous flux radiated per solid angle
Illuminance	Lux (lx)	E	The luminous flux on 1 m ² of the surface to be illuminated
Luminance	Candela (cd/m ²)	L	The luminous intensity per m ² of visible surface

Light Output Ratio:

This is the ratio of the flux emitted by the luminaire to the sum of the individual fluxes emitted by the lamps operating inside the luminaire under standard conditions.

$$\text{Total Output Ratio (or efficiency)} = \frac{\text{Flux emitted by luminaire} \times 100\%}{\text{No. of Lamps in a luminaire} \times \text{nominal flux of one lamp}}$$

The light output ratio is divided into:

- Upward light output ratio.
- Downward light output ratio.

Utilization Factor:

The utilisation factor for a reference plane is the ratio between flux received on the working plane from the luminaire and the sum of the nominal fluxes from all the lamps in the luminaire. Utilisation factors are calculated as follows:

- For specified space to mounting height ratio.
- For suspension to height ratio as specified.

The compilation of tables for the utilisation factor requires a considerable amount of laboratory measurements and calculations. For all the Bajaj Luminaires utilisation factor tables are available.

The utilisation factor depends upon:

- The light distribution of the luminaire.
- The reflection properties of wall, ceiling and floor.
- The inter reflection between wall, ceiling and floor, resulting into the light reaching on the reference plane.
- Room Index: This is an index which depends upon the geometry of the room. The greater the room index, the greater the utilisation factor.

The room index is given by the formula

$$K = \frac{L \times W}{MH \times (L+W)}$$

Where, K = Room Index, L = Length of the Room, W = Width of the Room and MH = Mounting Height of the luminaire from the working plane. All the dimensions in Metre or in a common unit to be taken. The working plane is the imaginary horizontal plane considered to be at a height of the workplace above the floor and is normally taken as 0.8 metre from the floor (zero for specific applications).

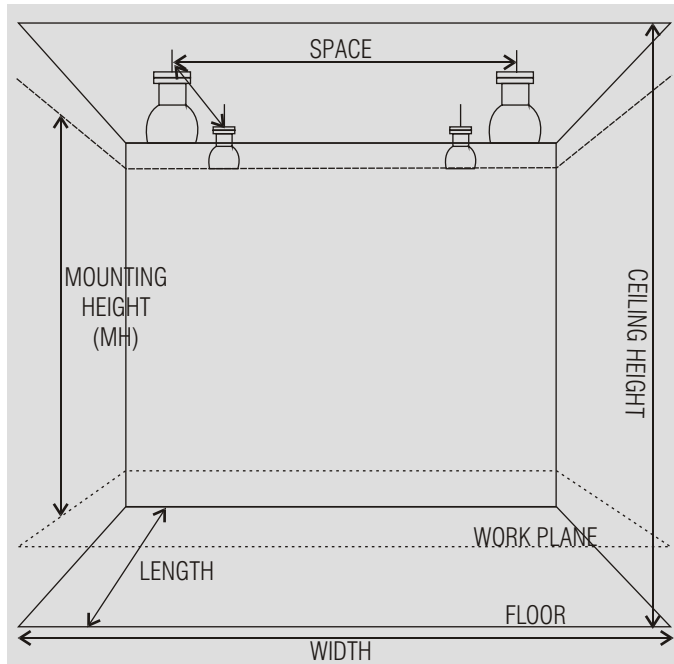
Room Reflections

The ratio of the luminous flux reflected by a room surface to the flux incident upon the surface. The utilisation factor tables include combination of different values of reflectance for the ceiling, wall and floor or working plane.

Ceiling	70%	50%	30%
Wall	50%	30%	10%
Floor	10%	10%	10%

Space to Mounting Height Ratio

This is the ratio of the distance between the centre of two adjacent luminaires to the mounting height of the luminaires above the working plane.



Designing Industrial Lighting Systems

Creating a good industrial lighting system involves careful consideration of various parameters. Designer should take into account the operating conditions at the site, application and the visual tasks for which illumination is required. In recent times, energy efficiency has also become important parameter in designing lighting scheme for industrial work area. Steps involved in designing a lighting scheme for industrial area are.

- Determine the quality of illumination needed for a particular manufacturing process.
- Determine the quantity of illumination required at the task or process.
- Consider the color rendering required for the visual task.
- Determine the appropriate lighting level required for safety, and ensure all three of the factors – quality, quantity and safety – are properly considered in the final design.
- Select the suitable lightsource and luminaire that satisfies all the design parameters and specifications, including mechanical performance.
- Prepare a lighting fixture layout that responds to the concerns of maintainability and safety. Bajaj Photolux software provides customer friendly solutions that takes care of the above factors.
- Review the energy, economic and operating characteristics of the lighting system.

BIS provides guidelines for the lighting designer on the illuminance levels required for various applications and visual tasks.

Lighting scheme design-Lumen Method

This is a method for estimating luminaire quantities and spacing for layouts that is more accurate because the difference in photometric performance caused by room geometry and system depreciation are taken into account.

1. Dimensions of the Area, viz. Length, Width and Height in Mtrs.
2. Illuminance level required in lux.
3. Luminous output of Lamp(s) to be used, in lumens.
4. Coefficient of Utilisation or Utilisation Factor of the Luminaire.

The Formula to determine the No. of Luminaires N to illuminate an area is:

$$N = \frac{A \times E}{(F \times \text{COU} \times \text{MF})}$$

Where,

- A = Area to be illuminated in sq. metres
- E = Illuminance specified in lux (lumens/sq. metre).
- F = Lumen output of Lamps.
(Refer to the lamp Catalogue)
- COU = Coefficient of Utilisation of the luminaire.
(Refer to the luminaire photometric data)
- MF = Maintenance Factor

Maintenance factor

Maintenance factor is a factor which takes into account the reduction in illuminance with time. This factor comprises mostly of the following:

1. Lamp Lumen Depreciation. (LLD)
2. Luminaire Dirt Depreciation. (LDD)

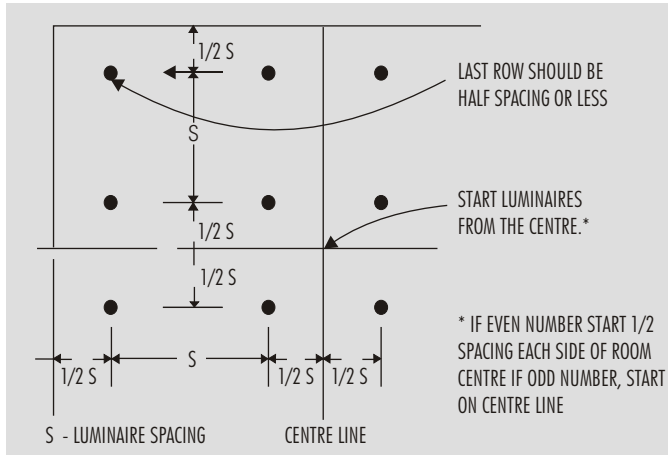
Lamp Lumen Depreciation is the loss of light output with time. Luminaire Dirt Depreciation is the loss of light output due to soiling of the luminaire with time. The first factor is not generally dependent on environment but the second one is Therefore it is obvious that in a clean environment, a high maintenance factor can be adopted and in a dirty environment a low value has to be used. The following values may be selected according to the environment.

- Very clean : 0.8 (e.g. Labs)
- Clean : 0.7 (e.g. Shops, Offices, IT parks)
- Average : 0.6 (e.g. Machine Shops)
- Dusty : 0.5 (e.g. Foundry Shops)

Selection of luminaire & arrangement

The selection of an appropriate luminaire and lamp depends on the combination of several of the following factors:

1. Luminaire photometry, glare control and aesthetics.
2. Luminaire efficiency and economics.
3. Environment in which the luminaire is to be used.
4. The height at which it is to be mounted.
5. The type of mounting arrangement.



Luminaires should be arranged from the center of the area to the outside. A square array is best but a rectangular array will work as long as spacing does not exceed space to mounting height ratio limits. With an odd quantity of luminaire rows or columns, there will be a luminaire on the center line. With even quantities, the locations are one half of a spacing of the center line.

The luminaire closer to a wall should be one half of a spacing or less. In a functional area, the luminaires should run up to the edge of the area and beyond, if possible.

Outdoor Lighting Design

Industrial activities do take place in the outdoor location as well. Lumen method is not applicable there. Manual calculations are made either by Point by Point method which is quite time consuming and laborious or by using standard tables. The modern method is to use the help of a computer.

Computer Aided Lighting Design

In order to prepare a number of alternate and accurate illumination designs within a short period of time and thereafter to have the most economic and optimum design, the present day designers / users take help of a computer instead of working out manually. For computer aided designs the preliminary steps are identical as in the conventional methods of calculation except that final computation is done with the help of computer.

For computer aided designs, which require exhaustive photometric data of the luminaires. The results are obtained with the help of software. We not only provide the photometric data of all the luminaires but also provide the most modern outdoor software for illumination design to the Architects, Consultants, Project Authorities and the actual users on request. State-of-the-art software enables to work out a number of alternate designs giving the horizontal & vertical illumination levels, uniformity ratios in a shortest possible time. In-house designed and developed outdoor software OLAS is a very useful lighting tool for quick estimation of basic design.

New Trends in Industrial Lighting

Select the lamp that provides energy efficient Lighting Solutions:

a. Use luminaires with energy efficient T5 fluorescent lamp instead of conventional 40 W FTL.

Apart from excellent colour rendering properties, these lamps have higher luminous efficacy. Less number of luminaires will be required due to improved illumination hence reducing cost of installation. This also ensures lower energy consumption of the total installation for same illumination level.

b. Installation of Compact Fluorescent Lamps (CFL's) in place of incandescent lamps.

Compact fluorescent lamps are generally considered best for replacement of lower wattage incandescent lamps. These lamps have efficacy ranging from 55 to 65 lumens/Watt. The average rated lamp life is approximately 10 times longer than that of a normal incandescent lamps. CFL's are highly suitable for places such as conference rooms, offices, pathways, building entrances, corridors, etc.

c. Installation of metal halide lamps in place of mercury / sodium vapour lamps.

Metal halide lamps provide high color rendering index when compared with mercury & sodium vapour lamps. These lamps offer efficient white light. Hence, metal halide lamp is the right choice for colour critical applications where, higher illumination levels are required. These lamps are highly suitable for applications such as assembly line, inspection areas, painting shops, etc.

d. Installation of High Pressure Sodium Vapour (HPSV) lamps for applications where colour rendering is not critical.

High pressure sodium vapour (HPSV) lamps offer more efficacy. But the colour rendering property of HPSV is very low. Hence, it is recommended to install HPSV lamps for applications such as street lighting, yard lighting, assembly workshop, storage area etc.

Selection of Easy to service luminaires for production areas and workshops.

Installation of suitable luminaires, depends upon the height - low, medium & high bay. Luminaires for high intensity discharge lamp are classified as follows:

Low bay, for heights less than 5 metres.

Medium bay, for heights between 5 – 7 metres.

High bay, for heights greater than 7 metres.

Ease of Maintenance has become a critical factor in selection of high bay or medium bay luminaire. High bays with front opening housing (Similar to HBI F) ensures faster and hassle free maintenance. This results in lower down time during maintenance. Customers are also now preferring luminaires with replaceable ballast assembly.

Use of T5 luminaires for low bay / medium bay applications.

Traditionally, luminaires with HPMV lamps were used for low bay applications. In view of the energy efficiency offered by T5 luminaires, customers are selecting T5 luminaires for Low bay and medium bay applications. (BTMB Range). Use of high efficacy T5 lamps (24 W / 54W T5) ensures lower number of luminaires for same installation.

Use of Electronic Ballasts for fluorescent lamp luminaires and Open type ballasts for HID luminaires.

Electronic ballasts ensure flicker free high quality illumination for Fluorescent lamp luminaires. They also provide substantial energy savings as watt loss in ballast is 2 -3 Watts only.

Conventional potted ballasts have now given way to Vacuum Pressure impregnated – open construction ballasts in HID lamp fittings. This ensures lower heating and more reliable operation.

Note:

- Due to our continuous efforts in developing products, improvement - Bajaj Electricals Limited reserves the right to make changes in the design and data without any prior notice.
- Variations in dimensions ± 3 mm
- All FTL/36W CFL luminaires can be supplied with BLLB/BELLB/BCCB-SD Ballast
- All FTL & CFL luminaires with electronic ballast available as option
- Use superimposed ignitor for double ended metal halide lamp luminaires
- Installation & Product Photographs are indicative only



Recommended Illuminance Levels

Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
1. ELECTRICITY GENERATION TRANSMISSION AND DISTRIBUTION			
1 General plant			
1.1 Turbine houses (operating floor)	150-200-300	2	
1.2 Boiler and turbine house basements	50-100-150	3	
1.3 Boiler house, platforms, areas around Burners	50-100-150	3	
1.4 Switch rooms, meter rooms, oil plant Rooms, HV substations (indoor)	100-150-200	2	
1.5 Control room	200-300-500	1	Localized lighting of control display & the control desks may be appropriate
1.6 Relay and telecommunication rooms	200-300-500	2	
1.7 Diesel generator & compressor rooms	100-150-200	3	
1.8 Pump houses, water treatment plant Houses	100-150-200	3	
1.9 Battery rooms, charges, rectifiers	50-100-150	3	
1.10 Precipitator chambers, platforms, etc	50-100-150	3	
1.11 Cable tunnels & basements, Circulating Water culverts & screen chamber	30-50-100	3	
2 Coal Plant			
2.1 Conveyors, gantries, junction towers, Unloading hoppers, ash handling plants, Setting pits, dust hoppers	50-100-150	3	
2.2 Other areas where operators may be Attendance	100-150-200	3	
3 Nuclear Plants			
3.1 Gas circulation bays, reactor area, boiler Platform, reactor charges and discharge face	100-150-200	2	
2. METAL MANUFACTURER			
1 Iron Making			
1.1 Sinter Plant	Plant floor	150-200-300	3
	Mixer drum, fan house, screen Houses, coolers, transfer stations	100-150-200	3
1.2 Furnaces, cupola	General	100-150-200	3
	Control Platforms	200-300-500	2 Local lighting may be appropriate
	Conveyor galleries, walkways	30-50-100	3
2 Steel Making			
2.1 Electric Melting Shops		150-200-300	3
2.2 Basic Oxygen Steel Making Plants			
2.2.1 General		100-150-200	3
2.2.2 Converter Floor, teeming bay		150-200-300	3
2.2.3 Control Platforms		200-300-500	2 Local lighting may be appropriate
2.2.4 Scrap bays		100-150-200	3

Recommended Illuminance Levels

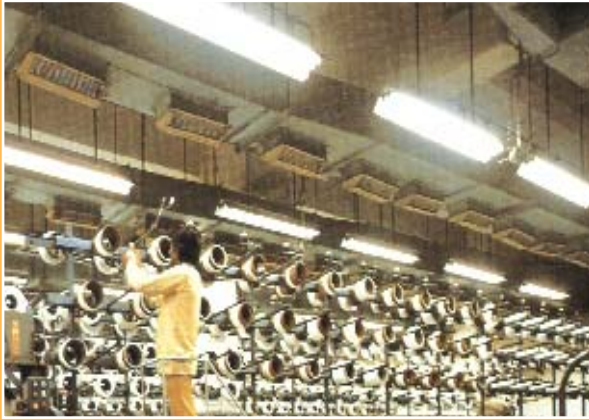
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
3 Metal forming and treatment			
3.1 Ingot stripping, soaking pits, annealing and heat treatment bays, acid recovery plant. Pickling and cleaning bays, roughing mills, cold mills, finishing mills, tinning and galvanizing lines, cut up and rewind line	150-200-300	3	
3. CHEMICALS			
1 Petroleum, chemical and petrochemical work			
1.1 Exterior walkways, platforms, stairs & ladders	30-50-100	3	
1.2 Exterior pump and valve areas	50-100-150	3	
1.3 Pump and compressor houses	100-150-200	3	
1.4 Process plant with remote control	30-50-100	3	
1.5 Process plant requiring occasional Manual interventions	50-100-150	3	
1.6 Permanently occupied work stations in Process plant	150-200-300	3	
1.7 Control rooms for process plant	200-300-500	1	
2 Pharmaceutical Manufacturer and Fine Chemicals Manufacturer			
2.1 Pharmaceutical Manufacturer Grinding, granulating, mixing, drying, Tableting, sterilizing, washing, Preparation of solutions, filling capping, Wrapping, hardening	300-500-750	2	
2.2 Fine chemical manufacture			
2.2.1 Exterior walkways, platform, stairs and ladders	30-50-100	3	
2.2.2 Process plant	50-100-150	3	
2.2.3 Fine chemical finishing	300-500-750	2	
2.2.4 Inspection	300-500-750	1	Local lighting may be appropriate
4. MECHANICAL ENGINEERING			
1 Structural steel Fabrication			
1.1 General	200-300-500	3	
1.2 Marking off	300-500-750	3	Local lighting may be appropriate
2 Sheet Metal Works			
2.1 Pressing, punching, shearing, stamping, spinning, folding	300-500-750	2	
2.2 Bench work, scribing, inspection	500-750-1000	2	
3 Machine and tool shops			
3.1 Rough bench and machine work	200-300-500	3	
3.2 Medium bench and machine work	300-500-750	2	
3.3 Fine bench and machine work	500-750-1000	2	
3.4 Gauge rooms	750-1000-1500	1	Optical aids may be required

Recommended Illuminance Levels

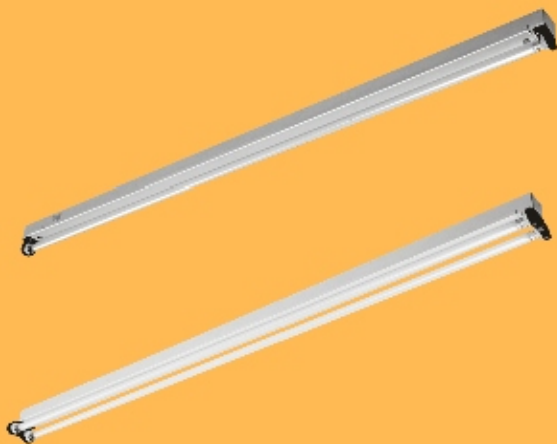
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
4 Die Sinking Shops			
4.1 General	300-500-750	2	
4.2 Fine Works	1000-1500-2000	1	Flexible local lighting is desirable
5 Welding and soldering shops			
5.1 Gas and arc welding, rough spot welding	200-300-500	3	
5.2 Medium soldering, brazing, spot welding	300-500-750	3	
5.3 Fine soldering, fine spot welding	750-1000-1500	2	Local lighting may be appropriate
6 Assembly Shops			
6.1 Rough work for example, frame and heavy machine assembly	200-300-500	3	The lighting of vertical surface may be important
6.2 Medium work, for example, office Machinery assembly	300-500-750	2	
6.3 Fine work, for example, office machinery assembly	500-750-1000	1	Local lighting may be appropriate
6.4 Very fine work, for example, instrument assembly	750-1000-1500	1	Local or localized lighting may be appropriate
6.5 Minute work for example, watch making	1000-1500-2000	1	Local lighting and optical aids are desirable
7 Inspection and Testing Shops			
7.1 Coarse Work, for example, using go/on go gauge, inspection of large sub-assembly	300-500-750	2	Local or localized lighting may be appropriate
7.2 Medium work for example, inspection of painted surfaces	500-750-1000	1	Local or localized lighting may be appropriate
7.3 Fine work, for example, using calibrated scales, inspection of precision mechanism	750-1000-1500	1	Local or localized lighting may be appropriate
7.4 Very fine work, for example, inspection of small intricate parts	1000-1500-2000	1	Local lighting and optical aids are desirable
7.5 Minute work, for example, inspection of very small instruments	2000	1	Local lighting and optical aids are desirable
8 Points Shops and Spray Booths			
8.1 Dipping, rough spraying	200-300-500	3	
8.2 Preparation, ordinary painting, spraying & finishing	200-500-750	2	
8.3 Fine painting, spraying and finishing	500-750-1000	2	
8.4 Inspection, retouching and matching	750-1000-1500	2	
5. PAPER AND PRINTING			
5.1 Paper Mills			
5.1.1 Pulp mills, preparation plants	200-300-500	3	
5.1.2 Paper and board making			
5.1.2.1 General	200-300-500	3	
5.1.2.2 Automatic process	150-200-300	3	Supplementary lighting may be necessary for maintenance work

Recommended Illuminance Levels

Types of interior or activity		Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
5.1.2.3	Inspection, sorting	300-500-750	1	
5.1.3	Paper converting process			
5.1.3.1	General	200-300-500	3	
5.1.3.2	Associated printed	300-500-750	2	
6. DISTRIBUTION AND STORAGE				
1	Work stores	100-150-200	3	
1.1	Unpacking, sorting	150-200-300	3	Avoid glare to drivers of vehicles approaching the loading bay
1.2	Large item storage	50-100-150	3	Avoid glare to drivers of vehicles approaching the loading bay
1.3	Small item rack storage	200-300-500	3	Avoid glare to drivers of vehicles approaching the loading bay
1.4	Issue counter, records, storemans desk	300-500-750	2	Local or localized lighting may be appropriate
2	Warehouses and bulk stores			
2.1	Storage of goods where identification requires only limited preparation of details	50-100-150	3	
2.2	Storage of goods where identification requires perception of detail	100-150-200	3	
2.3	Automatic high bay rack stores			
2.3.1	Gangway	20	--	
2.3.2	Control station	150-200-300	3	
2.3.3	Packing and dispatch	200-300-500	3	
2.3.4	Loading bays	100-150-200	3	Avoid glare to drivers of vehicles approaching the loading bay
3	Cold stores			
3.1	General	200-300-500	3	
3.2	Breakdown, make-up and dispatch	200-300-500	3	
3.3	Loading bays	100-150-200	3	Avoid glare to drivers of vehicles approaching the loading bay



BTIR 128 / 228



Surface/Pendent Mounting T5 Industrial Luminaire

Application

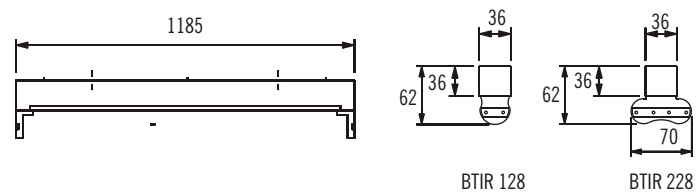
Office, Banks, Hotel & Restaurants, Educational Institutions, Shopping Malls, Ware houses, Textile Industry. General purpose lighting in industrial work / storage areas.

Luminaire Body & Reflector

Epoxy white powder coated CRCA sheet steel housing and reflecting cover plate held in position by two screws.

Lamp

Luminaire is suitable for single/ twin 28W T5 Lamps, Control gear wired with electronic ballast suitable for Single/Two 28W T5 Lamps.



Note : Also available with MS powder coated / aluminium reflector.

BJIR 136/140

BJIR 236/240



Surface/Pendent Mounting FTL Industrial Luminaire

Luminaire Body & Reflector

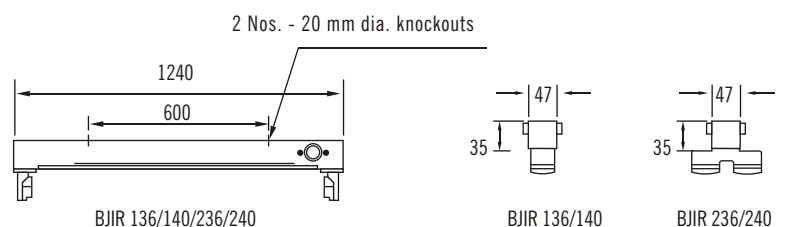
Epoxy white powder coated CRCA sheet steel housing and reflecting cover plate held in position by two screws.

Lamp

Luminaire is suitable for single /twin 36/40W Fluorescent Tubular Lamps and comprises of open construction ballast and accessories wired up to the terminal block.

Control Gear

Open construction ballast suitable for 240V. Single ballast for BJIR 136/140 and two numbers for BJIR 236/240



Note : Also available with electronic ballast.

Surface/Pendant Mounting FTL Luminaire

BJIE 136/140

BJIE 236/240



Surface/pendent Mounting FTL Industrial Luminaire With Reflector

Luminaire Body

Epoxy white powder coated CRCA sheet steel housing and reflecting cover plate held in position by two screws

Reflector

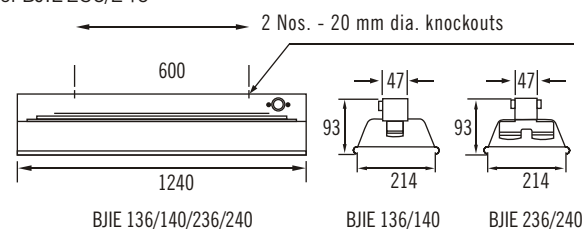
Epoxy white powder coated sheet steel reflector fixed to BJIR industrial rail with two sliding clips

Lamp

Luminaire is suitable for single /twin 36/40W Fluorescent Tubular Lamps

Control Gear

Open construction ballast suitable for 240V. Single ballast for BJIE 136/140 and two numbers for BJIE 236/240



Note :- BJIE 136/140/236/240 is a combination of BJIR 136/140/236/240 & BJSER 136/140/236/240

BJIV 136/140

BJIV 236/240



Surface/pendent Mounting FTL Industrial Luminaire With Vitreous Reflector

Luminaire Body

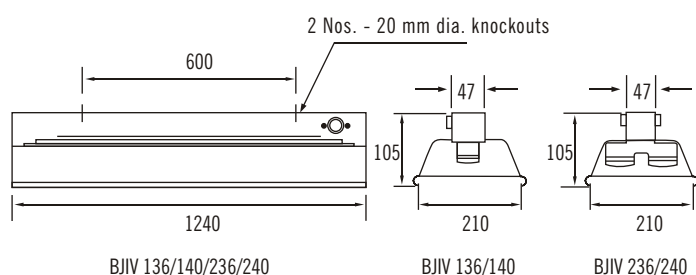
Epoxy white powder coated CRCA sheet steel housing and reflecting cover plate held in position by two screws

Reflector

Black outside and white inside vitreous enamelled sheet steel reflector fixed to BJIR Industrial rail with two sliding clips.

Lamp and Accessories

Luminaire is suitable for single /twin 36/40W Fluorescent Tubular Lamps and comprises of open construction ballast and accessories wired up to the terminal block





BJI 236/240 FG



**Surface/Pendent Mounting FRP Body,
Corrosion Resistant FTL Industrial Luminaire**

Luminaire Body

FRP housing with rubber gasket and clear acrylic cover fixed to the housing with stainless steel toggles.

Cable entry through 19 mm dia. ET cable gland on side

Reflector

Stove enamelled white CRCA gear tray cum reflector

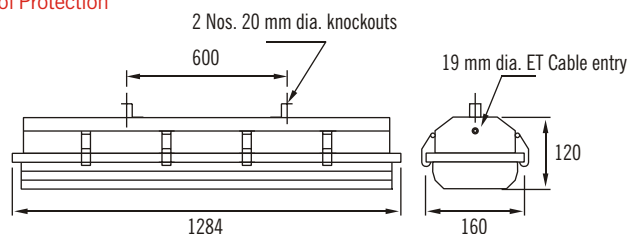
Lamp

Luminaire is suitable for two 36/40W Fluorescent Tubular Lamps

Control Gear

Wired with open construction ballast suitable for 36/40w Fluorescent Tubular Lamps

Degree of Protection



Note :- Luminaire with electronic ballast available on request

- BJI 136/140 PC
- BJI 236/240 PC
- BTI 128/154 PC
- BTI 228/254 PC



**Surface/Pendent Mounting Polycarbonate Body,
Corrosion Resistant FTL / T5 Industrial Luminaire**

Luminaire Body

Grey finish Polycarbonate housing with rubber gasket and cover fixed to the housing by steel toggles

Cable entry through 19 mm dia. ET cable gland on side

Reflector

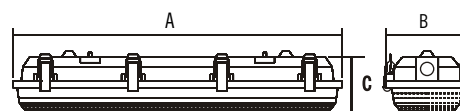
Stove enamelled white CRCA gear tray cum reflector

Lamp

Luminaire is suitable for single /twin 36/40W FTL Lamp / 28W T5 lamp and comprises of open construction / electronic ballast and accessories wired up to the terminal block

Degree of Protection

IP 65



Cat Reference :	A	B	C
BJI 136/140 PC	1268	100	101
BJI 236/240 PC	1268	158	101
BTI 128 T5 PC	1208	60	71
BTI 228 T5 PC	1208	100	71

Well Glass Luminaires

BJVW 200 / BJVW 200 2E
BJVW 300



Non Integral Wellglass Luminaires

Luminaire Body

Grey Hammertone stove enameled finish die-cast aluminium lamp housing.
Heat resistant clean well glass fixed to the housing with the gasket.
Zinc plated MS wire guard provided with hinging arrangement.

Lamp

Luminaire is suitable for 200W GLS/80W/125W HPMV & 70W HPSV lamp / 300W GLS.

Control Gear

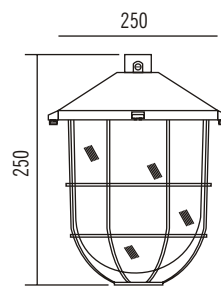
Use separate control gear suitable for respective 80W/125W HPMV/70W/150W HPSV Lamp

Mounting arrangement

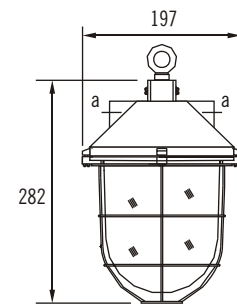
Eye bolt is provided on lamp housing.

Environmental Protection

IP 65

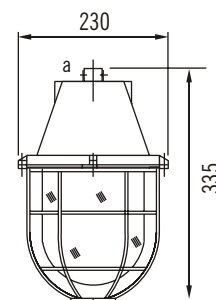


BJVW 200



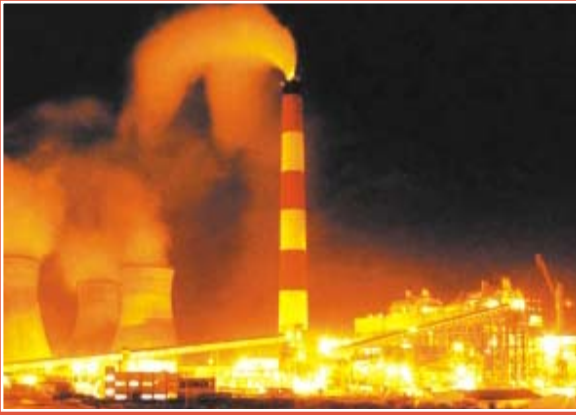
BJVW 200 2E

a - 2 Nos.19 mm
ET Cable entry



BJVW 300

Note : BJVW 200W 2E is with two cable entries for loop in - loop out arrangement .



BJVWIS 80/125 MV
BJVWIS 70 SV/MH



Integral Wellglass Luminaires - Side Mounting

Luminaire Body

Gray hammertone stove enamelled finish die-cast aluminium alloy housing with heat resistant wellglass fixed to the housing with gasket Zinc plated MS wire guard provided with hinging arrangement.

Lamp

Luminaire is suitable for 80W/125W HPMV/70W/100W HPSV lamp

Control Gear

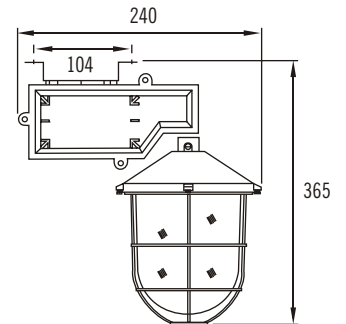
Control gear suitable for 80W/125W HPSV /70W/100W HPSV Lamp attached to the lamp housing.

Mounting Arrangement

Special bracket is provided on control gear.

Environmental Protection

IP 65



BJVWIS 150 SV/ MH



Integral Wellglass Luminaire - Side Mounting

Luminaire Body

Silver hammertone stove enamelled finish. Die-cast aluminium alloy housing, Heat resistant glass is provided with specially designed gasket.

Lamp

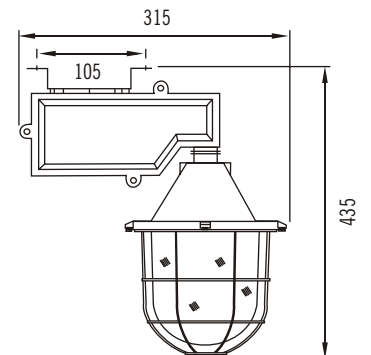
Luminaire is suitable for 150W HPSV / MH lamp.

Control Gear

The luminaire is provided with open construction ballast and accessories wired up to the terminal block in the control gear housing..

Environmental Protection

IP 65



Well Glass Luminaires

BJDWIS 80/125 MV / 70SV



Integral Wellglass Luminaire - Vertical Mounting

Luminaire Body

Pressure die-cast aluminium housing in epoxy powder finish.
Heat resistant glass with specially designed gasket.
Eye bolt on top for suspension mounting.
2 cable entries of size 20mm ET are provided

Reflector

Built in MS reflector

Lamp

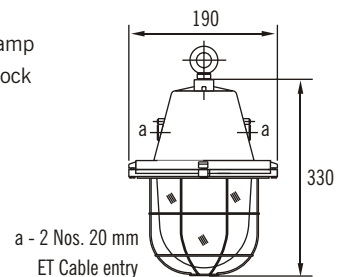
Wellglass suitable upto 80/125W MV / 70W SV lamp

Control Gear

Built in control gear for 80/125W MV / 70W SV lamp
BC/ES lamp holder, prewired upto the terminal block

Environmental Protection

IP 65



BJDWIS 126/118/226/218 CFL



Integral Wellglass CFL Luminaire

Luminaire Body

Pressure die-cast aluminium lamp housing in epoxy powder coated grey finish.
Heat resistant glass with specially designed gasket.
Eye bolt on top for suspension
2 cable entries of size 20mm ET are provided

Reflector

Built in MS reflector

Lamp

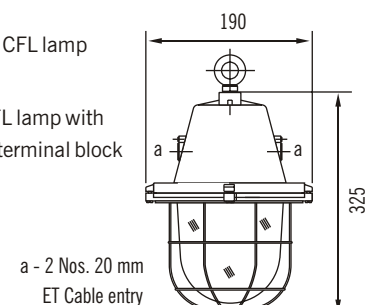
Wellglass suitable up to 2x18 and 2x26 watt CFL lamp

Control Gear

Electronic Ballast suitable for 18W & 26W CFL lamp with
suitable lamp holder/s and prewired upto the terminal block

Environmental Protection

IP 65





BJRLB 02 80/125 MV Glass
BJRLB 02 70 MH/MH DE Glass



Low Bay Integral HID Luminaire

Luminaire Body

Epoxy white powder coated CRCA sheet steel housing
Heat resistant, toughened clear glass, gasket fixed to the housing with toggles

Reflector

Anodised aluminium reflector assembly

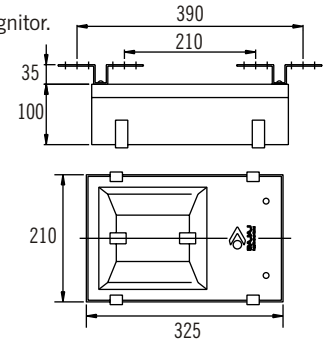
Lamp

Luminaire is suitable for 80/125W HPMV / 70W HPSV / MH SE / DE lamp Control gear wired with open construction ballast suitable for 80/125W HPMV/70MH/MHDE Lamp and all accessories wired up to the terminal block

Luminaire for 70W MH-DE lamp is with super imposed ignitor.

Degree of Protection

IP 54



BJRMB 150SV/MH DE
BJRMB 250 SV / MH Lamp



Medium Bay Integral HID Luminaire

Luminaire Body

Epoxy white powder coated CRCA sheet steel housing
Heat resistant, toughened clear glass, gasket fixed to the housing with toggles

Reflector

Anodised aluminium reflector assembly

Lamp

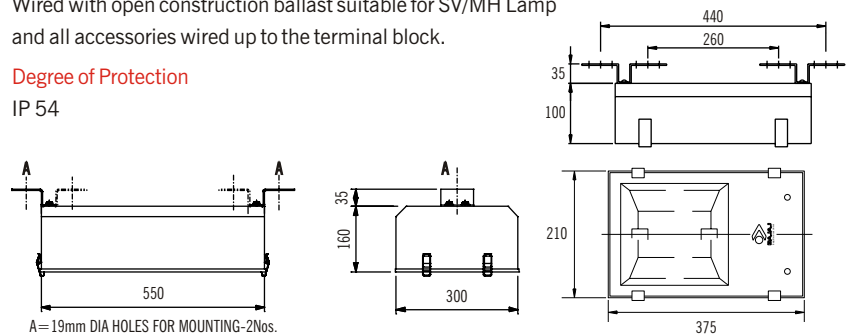
150W DE Metal Halide lamp, 150W HPSV, 250W HPSV/MH lamp

Control Gear

Wired with open construction ballast suitable for SV/MH Lamp and all accessories wired up to the terminal block.

Degree of Protection

IP 54



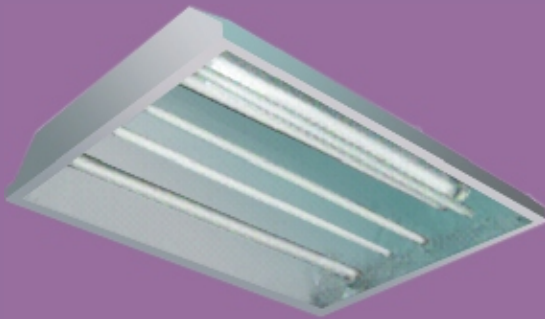
A=19mm DIA HOLES FOR MOUNTING-2Nos.

BJRMB 250

BJRMB 150

Low Bay Luminaires

BTMB 254 / 414 / 424 /
454 / 624



Low Bay Integral T5 Luminaire

Applications

Low bay installations in Railway Platforms, Retail Malls, Warehouses, Food Plaza, Railway concourse halls .

Luminaire Body

Decorative Powder coated CRCA housing with attractive diffuser.

2 Nos. 20 mm dia knock outs on the rear side of housing for conduit mounting.

Reflector

Push fit hingeable reflector made of pre-anodised aluminium reflector and hingeable frame to ensure easy maintenance.

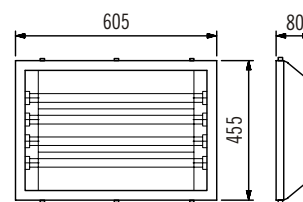
Lamp

14W/24W/54W T5 Lamps.

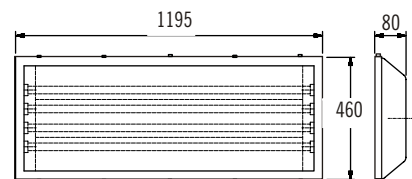
Cat. Ref.	Lamp Type and Wattage	Ballast
BTMB 254	2 X 54 Watt T5 lamp	BJHF 254 A – One No.
BTMB 414	4 X 14 Watt T5 Lamp	BJHF414 LHD- One No.
BTMB 424	4 X 24 Watt T5 Lamp	BJHF 224 P – TWO Nos.
BTMB 454	4 X 54 Watt T5 Lamp	BJHF 254 A – TWO Nos.
BTMB 624	6 X 24 Watt T5 Lamp	BJHF 224P – Three Nos.

Degree of Protection

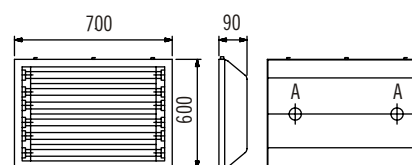
IP 54



BTMB 414/424



BTMB 428/454



BTMB 624



BJPP 1170 MH DE

BJPP 11150 MH DE



Canopy Lighting Luminaire

Application

Petrol pumps, Public halls, under canopy lighting

Luminaire Body

Epoxy white powder coated recess mounting die-cast aluminium housing to accommodate lamp and control gear.

Heat resistant toughened clear glass with silicon rubber gasket held in a die-cast aluminium frame and fixed by two SS screws

Reflector

Electrochemically brightened, polished and anodised aluminium symmetrical / asymmetrical reflector assembly

Lamp

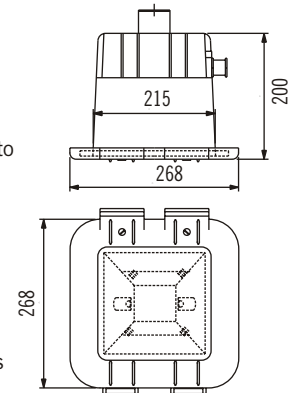
Luminaire is suitable for 70/150W MH DE lamp

Control Gear

Integral control gear for 70/150W MH DE lamp, prewired upto the terminal block

Environmental Protection

IP 65



Note : Available in symmetrical and asymmetrical versions

BJPP 250 MMH T CA CS / CAS



Canopy Lighting Luminaire

Luminaire Body

Epoxy white powder coated recess mounting die-cast aluminium housing for control gear and lamp

Heat resistant toughened clear glass with silicon rubber gasket held in a die-cast aluminium frame and fixed by four SS screws

Reflector

Electrochemically brightened, polished and anodised aluminium reflector assembly

Lamp

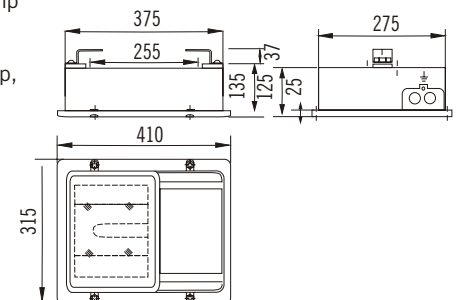
Luminaire is suitable for 250W MH T lamp

Control Gear

Integral control gear for 250W MH T lamp, prewired upto the terminal block

Environmental Protection

IP 65



Note : Available in symmetrical and asymmetrical versions

Canopy Lighting Luminaires

BJUCL 250/400/SV/MH A/AS



Canopy Lighting Luminaire

Luminaire Body

Epoxy white powder coated recess mounting die-cast aluminium housing for control gear.

Heat resistant toughened clear glass with silicon rubber gasket held in a die-cast aluminium frame and fixed by SS screws

Reflector

Electrochemically brightened, polished and anodised aluminium symmetrical / asymmetrical reflector assembly

Lamp

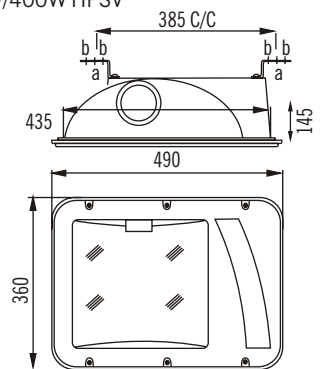
Luminaire is suitable for 250/400W MH SE lamp, 250W/400W HPSV

Control Gear

Integral control gear for 250/400W HPSV / MH SE lamp, prewired upto the terminal block

Environmental Protection

IP 65



Note : Available in symmetrical and asymmetrical versions

BJTL 70 SV T / 150/ 250/400 SV/MH T



Tunnel Lighting Luminaire

Applications

Docks, Mines, Car parking basements, Railway platforms, Tunnels etc.

Luminaire Body

Epoxy grey powder coated sheet aluminium fitted to the extruded aluminium section, Heat resistant, clear, toughened glass inserted in extruded aluminium section, cast aluminium end plates hinged to the housing with SS steel clamps

Reflector

Anodised aluminium reflector for uniform light distribution.

Lamp

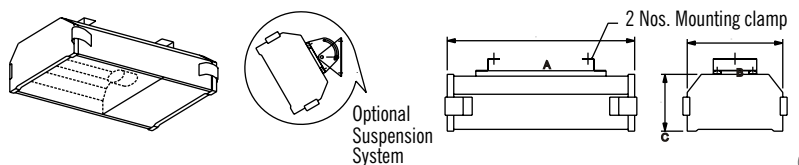
Luminaire is suitable for 70/ 150/250/400W HPSV/MHT Lamp.

Control Gear

Wired with open construction / potted ballast suitable for 70/150/250/400 SV/ MH Lamp with all accessories.

Degree of Protection

IP 65



Cat. Ref.	A	B	C
BJTL 70 SV-T/MH-SE	355	224	115
BJTL 150 SV-T/MH-SE	435	224	115
BJTL 250 SV/MH-T	490	264	155
BJTL 400 SV/MH-T	520	264	155



High Bay/ Medium Bay Luminaires

BJHB/BJMB NI



Non Integral Luminaires

Luminaire Housing

Black textured epoxy powder coated die-cast aluminium junction box housing. Mounting can be done by a hook on rubber grommet fixed on the housing.

Reflector

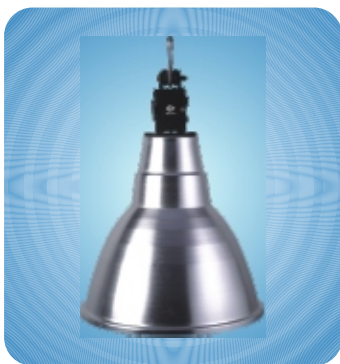
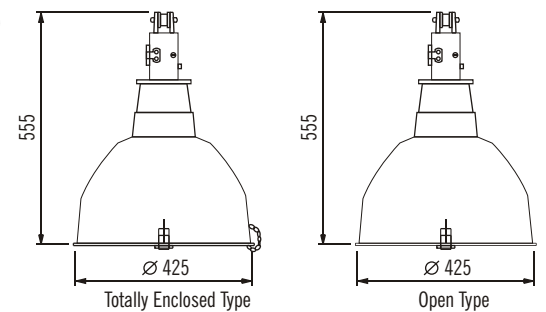
- Electrochemically brightened, polished and anodised spun aluminium symmetrical reflector.
- Available in open type or totally enclosed type reflector suitable for high bay or mid bay application.
- GLASKOTE finish version available for improved illumination.

Lamp

- Luminaire is suitable for 1000W GLS/150/250SV/MH/MMH & 250/400W MV/400SV/MH lamp
- MH Should be used with totally enclosed reflector only.
- Suitable control gear to be separately used.

Environmental Protection

IP 55 (For T.E. reflector version)



High Bay Open



High Bay Totally Enclosed



Mid Bay Open



Mid Bay Totally Enclosed

High Bay Medium Bay Luminaires

BJHBI/MBI 250/400 MV
BJHBI/MBI 150/250 SV/400 SV



Vertical Mounting Integral Luminaires

Luminaire Housing

Pressure die-cast aluminium, black textured matt finished powder coated control gear housing with cover. Mounting with eye-bolt suspension

Reflector

- Electrochemically brightened, polished and anodised spun aluminium symmetrical reflector.
- Available in open type or totally enclosed type reflector suitable for high bay or mid bay application.
- GLASKOTE finish version available for improved illumination.

Lamp

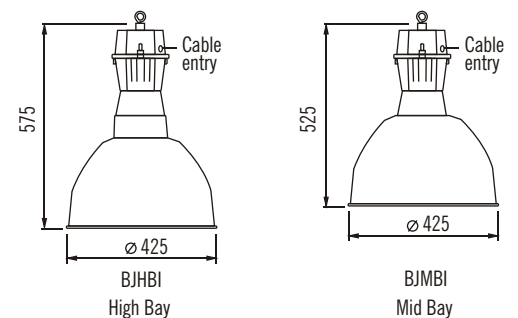
- Luminaire is suitable for 250W/400MV & 150/250SV E lamp.
- For MH version use TE version reflector.
- Luminaire suitable for 400 HPSV/MH also available.

Control Gear

Potted ballast & accessories suitable to lamp fitted in housing.

Environmental Protection

IP 55 (For T.E. reflector version)



High Bay Open
Housing suitable for 400W SV/MH Lamp



High Bay Totally Enclosed



Mid Bay Open
Housing suitable for 150/250 SV, 250/400 MV Lamp



Mid Bay Totally Enclosed



High Bay/ Medium Bay Luminaires

BJHBIS 250/400 MH
BJHBIS 150/250/400 SV/MV



Side Mounting Integral Luminaire

Luminaire Body

Pressure die-cast aluminium black textured matt finished powder coated housing with cover. Mounting with eyebolt suspensions.

Reflector

Electrochemically brightened, polished and anodised spun aluminium symmetrical reflector.

Available in open type on totally enclosed type reflector suitable for high bay or mid bay application.

GLASKOTE finish version available for improved illumination.

Lamp

Luminaire is suitable for 250W MV/400W MV 150/250 HPSV/MH lamp also available for 400W SV/MH

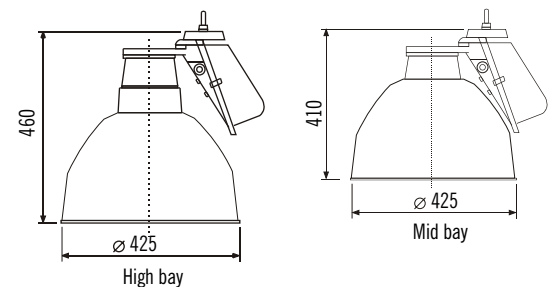
Control Gear

Open Construction ballast & accessories

Fitted in the housing.

Environmental Protection

IP 55 (For T.E. reflector version)



High Bay open Type



High Bay Totally Enclosed



Mid Bay open



Mid Bay Totally Enclosed

High Bay Medium Bay Luminaires

BJHBI F250/400 MV
BJHBI F150/250 SV/MV



Front Opening Integral Luminaire-DHRUV

Luminaire Body

- Cast aluminium body.
- Pre-treated epoxy powder coating - Black textured matt finish.
- Compact design & designer fins on housing for heat dissipation.
- Rubber sleeve on eyebolt for vibration proof installation.
- Hinged front opening door for access to accessories. For faster servicing
- Two wing nut locks to facilitate quick opening of front door.
- Chain link to hold reflector with housing for extra safety.

Reflector

- Electrochemically brightened, polished and anodised spun aluminium symmetrical reflector.
- Available in open type or totally enclosed type reflector suitable for high bay or midbay application.
- GLASKOTE finish version available for improved illumination.

Lamp

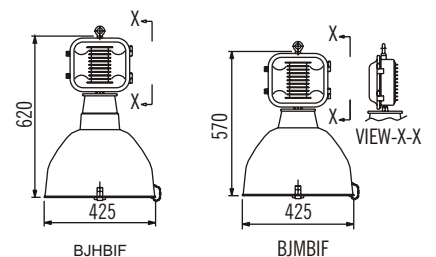
Luminaire is suitable for 250W/400MV & 150/250SV E lamp.
also suitable for 400W MMH lamp

Control Gear

Open Construction ballast & accessories
Fitted in front opening housing.

Environmental Protection

IP 55 (For T.E. reflector version)



High Bay open Type



High Bay Totally Enclosed



Mid Bay open



Mid Bay Totally Enclosed



High Bay & Medium Bay Reflector

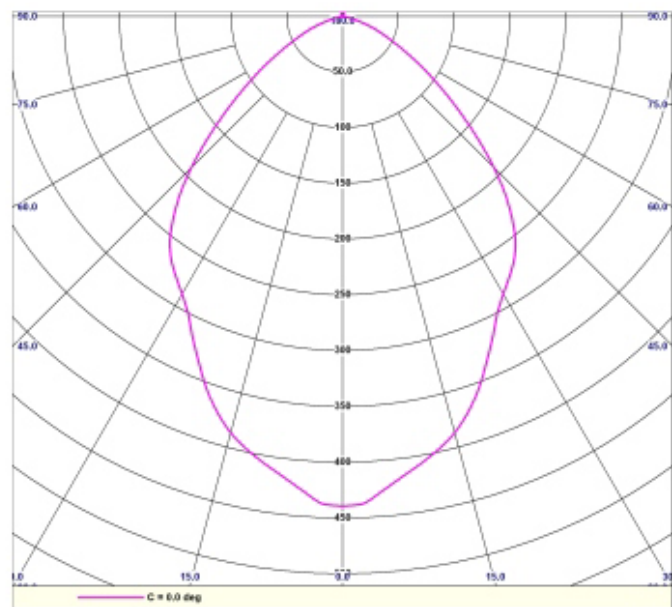
HIGHBAY OPEN TYPE REFLECTOR



HIGHBAY TOTALLY ENCLOSED TYPE REFLECTOR



Luminous Intensity Distribution



Photometric Centre v4.05 Bajaj Copyright © Photometric Solutions International 2004-2008.

High Bay and Medium Bay Reflectors :

Profile of high bay or mid bay reflector plays an important role in improving the illumination level on the shop floor. Reflector design should be such that maximum light is reflected back to working plane. Reflector design should take into account the design parameters such as height of installation, reflectivity of the reflector, lamp position etc .

Parabolic Neck Reflector :

To ensure effective light distribution, lamp's position inside the reflector after installation is very crucial. The centre of the lamp and the reflector should coincide for giving optimum optical performance. Our high bay reflectors are having a special parabolic neck design that ensures that light source and reflector centres coincide and give most optimum light distribution.

Height Of Installation :

High bay luminaires are installed at a height of 7 metres and above. Our high bay reflectors with parabolic neck profile ensures that light is not wasted and distributed uniformly in the work area below the luminaire.

In case of mid bay luminaire, the luminaire is installed at a comparatively lower height and wide beam reflector design is more suitable for such application.

High Bay Medium Bay Reflectors

MIDBAY OPEN TYPE REFLECTOR



MIDBAY TOTALLY ENCLOSED TYPE REFLECTOR



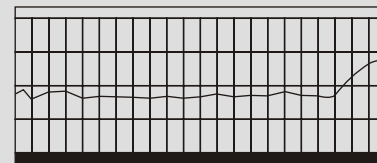
GLASKOTE® Reflectors:

GLASKOTE® is a thin, clear, flexible coating of high quality (95% purity) silica glass which is bonded chemically to the surface of formed reflectors. Each reflector immersed in silica solution, provides pinhole free coating to all surfaces. The result is chemically inert finish with the reflectivity of aluminium and durability of glass.

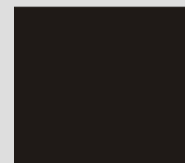
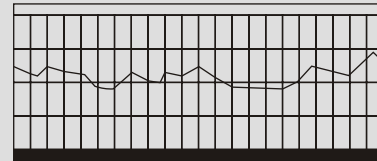
The highly transparent glass finish ensures a very small light loss and ensures very high reflectance. Due to glass coating the reflector is corrosion resistant. Except for hydrofluoric acid the coating is corrosion resistant against any acid or alkali.

Extraordinarily smooth surface finish protects the reflector from deposition of dust and resultant smearing and the high reflectance is maintained for a longer period. It is just like any glass surface where you can mop up the dust easily with a warm wet cloth. Like glass-fibre, **GLASKOTE®** is flexible. The thin layer of glass coating on aluminium sheet bears any heavy bending of the sheets. Furthermore, it is heat resistant and shock proof. In fact **GLASKOTE®** reflector is found to be better than prismatic glass reflector as it is light in weight, has high physical strengths and high efficiency.

Measurement data of surface roughness of **GLASKOTE®** (Silicate Film)



Anodised reflector



Magnified surface view (x 35,000 with electronic microscope)



Comparison of surface roughness

Environmental air is filled with the suspension of fine dust of a few micron (1/1000 mm) size. The dust gets deposited on the reflector and, when hot, the area close to the lamps burns and sticks to the reflector surface (known as reflector backing) which in turn reduces its reflectance. The surface of **GLASKOTE®** is coated with two layers of silicate solutions, which gives a smooth and extremely fine surface finish. The measurement data of surface roughness (shown in the figure below) clearly indicates that **GLASKOTE®** is practically free from surface roughness and dust deposition which is present on an Anodised Reflector.



BJDB 100 BC / ES / 10 CFL



GLS Bulkhead Luminaire

Luminaire Body

Epoxy white powder coated die-cast aluminium alloy body, Heat resistant prismatic glass cover fixed to the housing with specially designed weather proof gasket. Side entry with 19 mm dia. ET cable entry

Lamp

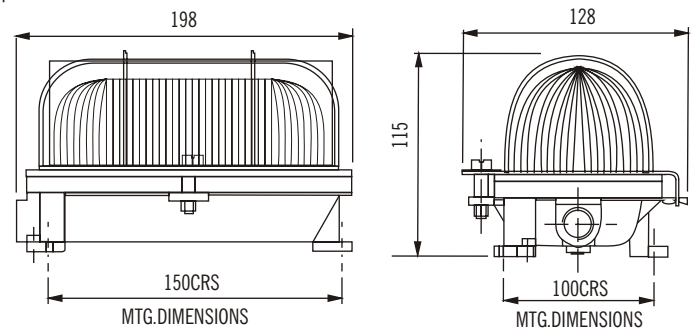
BJDB 10 CFL - Suitable for Retrofit 10W CFL

BJDB 100 BC - Suitable for GLS lamp up to 100W-BC Lamp

BJDB 100 ES - Suitable for GLS lamp up to 100W-ES Lamp

Environmental Protection

IP 54



BJBE 19



CFL Bulkhead Luminaire

Luminaire Body

Epoxy white powder coated deep drawn aluminium body

Heat resistant prismatic glass cover fixed to the housing with specially designed weather proof gasket

Side entry with 20 mm dia. knockouts

Control Gear

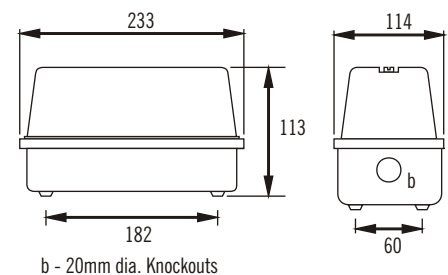
Wired with open construction ballast suitable for single 9W CFL on detachable tray.

Lamp

Luminaire is suitable for single 9W CFL "S" type

Environmental Protection

IP 54



Bulk Head Luminaires

BJDBI 70 SV / MH



Integral Bulkhead Luminaire for HID Lamp

Luminaire Body

Die cast aluminium alloy housing finished in epoxy powder coating. Heat resistant well glass is fitted with specially designed gasket.

Control Gear

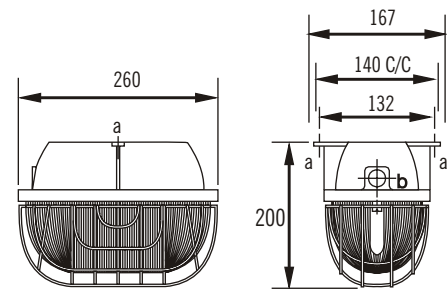
Control gear for 70W HPSV lamp
ES lamp holder, prewired upto the terminal block

Lamp

Luminaire is suitable for 70W HPSV elliptical lamp

Environmental Protection

IP 55



a - 2 Nos. 9 mm dia. mtg. hole
b - 19 mm dia. ET Cable entry

BJWPI 70 SV / MH



Bulkhead Luminaire for HID Lamp - Wall pak

Luminaire Body

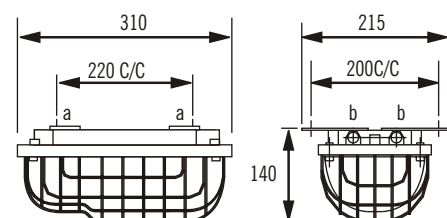
The luminaire comprises die-cast aluminium alloy body covered with prismatic heat resistant glass cover hold with a weather proof gasket and strong zinc plated M.S. wire guard. The luminaire is complete with all accessories wired up to a terminal block. 19mm cable entry is provided.

Lamp

Luminaire is suitable for 70W HPSV/MH SE

Environmental Protection

IP 55



a - 4 Nos. 9 mm dia. mtg. hole
b - 2 Nos. 19 mm dia. ET Cable entry

Techno-Commercial Data for Industrial Luminaire Range

Sr.No.	Product Code	Luminaire Type	Lamp Type	Normal Voltage (V)	Mains Current in Amps at 240 V	Ballast	Capacitor Mfd	Power Factor	List Price
1	21003	BJIR 136/140	1 x 36 W/40 W FTL	240	0.21 /0.22	O.C. Ballast	4.00	≥0.90	750
2	531003	BJIR 136/140 WEB1	1 x 36 W/40 W FTL	240	0.16	Electronic		≥0.95	930
3	21004	BJIR 236/240	2 x 36 W/ 40 W FTL	240	0.40/0.41	Two Nos. O.C.Ballasts	8.00	≥0.90	1110
4	531004	BJIR 236/240 WEB2	2 x 36 W/ 40 W FTL	240	0.31	Electronic		≥0.95	1300
5	162292	BJSER 136/140-236/240	Fitted with BJIR rail to make BJIE type luminaire						400
6	22104	IV Reflector	Fitted with BJIR rail to make BJIV type luminaire						850
7	160483	BTIR 128	1 X 28 W - T5 FTL	240	0.14	Electronic		≥0.95	1000
8	160484	BTIR 228	2 X 28 W - T5 FTL	240	0.27	Electronic		≥0.95	1450
9	530319	BTIR 254	2 X 54 W - T5 FTL	240	0.51	Electronic		≥0.95	
10	22453	BJI 236/240 FG	2 x 36 W/ 40 W FTL	240	0.42/0.45	Two Nos. O.C.Ballasts	8.00	≥0.90	4525
11	532454	BJI 236/ 240 FG WEB2	2 x 36 W/ 40 W FTL	240	0.31	Electronic		≥0.95	4625
12	161400	BJI 136/140 PC	1 x 36 W/40 W FTL	240	0.22/0.23	O.C. Ballast	4.00	≥ 0.85	2650
13	530329	BJI 136/140 PC WEB1	1 x 36 W/40 W FTL	240	0.16	Electronic		≥0.95	2830
14	161401	BJI 236/240 PC	2 x 36 W/ 40 W FTL	240	0.42/0.45	Two Nos. O.C.C.B	8.00	≥0.90	3425
15	530695	BJI 236/240 PC WEB2	2 x 36 W/ 40 W FTL	240	0.31	Electronic		≥0.95	3515
16	530733	BTI 128 T5 PC	1 X 28 W - T5 FTL	240	0.14	Electronic		≥0.95	3100
17	530734	BTI 228 T5 PC	2 X 28 W - T5 FTL	240	0.27	Electronic		≥0.95	3725
18	530775	BTI 254 T5 PC	2 X 54 W - T5 FTL	240	0.51	Electronic		≥0.95	4375
19	531045	BTMB 254	2 X 54 W - T5 FTL	240	0.51	Electronic		≥0.95	5225
20	530618	BTMB 414	4 X 14 W - T5 FTL	240	0.27	Electronic		≥0.95	4975
21	530619	BTMB 424	4 X 24 W - T5 FTL	240	0.46	Electronic		≥0.95	5275
22	531077	BTMB 454	4 X 54 W - T5 FTL	240	0.9	Electronic		≥0.95	10575
23	530645	BTMB 624	6 X 24 W - T5 FTL	240	3 x 0.224	Electronic		≥0.9	7625
24	162407+161848	BJRLB 02 80 MV BC	80 W HPMV - BC cap	200/220/240 V	0.43	O.C. Ballast	8.00	≥ 0.85	2140
25	162408+ 161849	BJRLB 02 125 MV BC	125 HPMV - BC cap	200/220/240 V	0.69	O.C. Ballast	10.00	≥ 0.85	2250
26	162410+160270	BJRLB 02 70 MH	70 W MH - SE LAMP	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2490
27	162409+160270	BJRLB 02 70 MH DE	70 W MH - DE LAMP	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2720
28	162412+162109	BJRMB 150 MH DE	150 W MH SE LAMP	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	3850
29	162309+160272	BJRMB 250 SV	250 W HPSV LAMP	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	4570
30	162290+160272	BJRMB 250 MH SE	250 W MH - SE Lamp	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	4670
31	165512	BJVW 200 BC	200 W GLS - BC Cap	240	0.83			Unity	725
32	165513	BJVW 200 ES	200 W GLS - ES Cap	240	0.83			Unity	750
33	165582	BJVW 200 2E BC	200 W GLS - BC Cap	240	0.83			Unity	1025
34	165583	BJVW 200 2E ES	200 W GLS - ES Cap	240	0.83			Unity	1050
35	25513	BJVW 300	300 W GLS Lamp	240	1.25			Unity	1390
36	161352	BJVWIS 80 MV BC	80 W HPMV - BC cap	200/220/240 V	0.43	O.C. Ballast	8.00	≥ 0.85	2100
37	161354	BJVWIS 80 MV ES	80 W HPMV - ES cap	200/220/240 V	0.43	O.C. Ballast	8.00	≥ 0.85	2150
38	161353	BJVWIS 125 MV BC	125W HPMV- BC Cap	200/220/240 V	0.69	O.C. Ballast	10.00	≥ 0.85	2175
39	161355	BJVWIS 125 MV ES	125 W HPMV - ES Cap	200/220/240 V	0.69	O.C. Ballast	10.00	≥ 0.85	2225
40	161350	BJVWIS 70W SV	70 W HPSV - Elliptical	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2300
41	161890	BJVWIS 70W MH	70W MHL - SE	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2300
42	162096	BJVWIS 150W SV	150W HPSV	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	3875
43	161449	BJDWIS 80 MV BC	80 W HPMV - BC cap	200/220/240 V	0.43	O.C. Ballast	8.00	≥ 0.85	1950
44	161582	BJDWIS 80 MV ES	80 W HPMV - ES cap	200/220/240 V	0.43	O.C. Ballast	8.00	≥ 0.85	1980
45	161450	BJDWIS 125 MV BC	125W HPMV- BC Cap	200/220/240 V	0.69	O.C. Ballast	10.00	≥ 0.85	2000
46	161579	BJDWIS 125 MV ES	125 W HPMV - ES Cap	200/220/240 V	0.69	O.C. Ballast	10.00	≥ 0.85	2130
47	161451	BJDWIS 70 SV	70 W HPSV - Elliptical	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2200
48	531102	BJDWIS 126 CFL WEB1	1 X 26 W CFL -D Type	240	0.34	Electronic			1700
49	531101	BJDWIS 226 CFL WEB2	2 X 26 W CFL- D Type	240	0.68	Electronic			2000
50	531104	BJDWIS 118 CFL WEB1	1 X 18 W CFL -D Type	240	0.22	Electronic			1700
51	531103	BJDWIS 218 CFL WEB2	2 X 18 W CFL- D Type	240	0.44	Electronic			2000
52	162670	BJPP 1170 MH DE S SHL	70 W MHL - DE	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	4550
53	162672	BJPP 11150 MH DE S SHL	150 W MHL - DE	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	4900
54	161019	BJPP 250 MMH T CA CS	250 W MH - Mercury base	220/240	1.3	O.C. Ballast	20.00	≥ 0.85	5400
55	161020	BJPP 250 MMH T CA CAS	250 W MH - Mercury base	220/240	1.3	O.C. Ballast	20.00	≥ 0.85	5400
56	162130	BJUCL 250 MH S CA	250 W MHL - SE	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	6190
57	162131	BJUCL 250 MH AS CA	250 W MHL - SE	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	6190
58	162218	BJUCL 400 MH A	400 W MH	220/240	2.1	Electro Magnetic Ballast	40.00	≥ 0.85	6880

Technical Details

Sr.No.	Product Code	Luminaire Type	Lamp Type	Normal Voltage (V)	Mains Current in Amps at 240 V	Ballast	Capacitor Mfd	Power Factor	List Price
59	162219	BJUCL 400 MH AS	400 W MH	220/240	2.1	Electro Magnetic Ballast	40.00	≥ 0.85	6880
60	161067	BJTL 70 SVT	70 W HPSV - Tubular	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	4545
61	161069	BJTL 150 SVT	150 W HPSV - Tubular	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	5300
62	161070	BJTL 150 MH T	150 W MHL - Tubular	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	5350
63	161071	BJTL 250 SV T	250 W HPSV - Tubular	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	6390
64	161072	BJTL 250 MH T	250 W MHL - Tubular	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	6440
65	161073	BJTL 400 SV T	400 W HPSV- Tubular	220/240	2.1	Electro Magnetic Ballast	40.00	≥ 0.85	6970
66	161074	BJTL 400 MH T	400 W MHL - Tubular	220/240	2.1	Electro Magnetic Ballast	40.00	≥ 0.85	7020
67	024710	BJDB 100 BC	100 W GLS LAMP - BC Cap	240	0.42			Unity	370
68	024720	BJDB 100 ES	100 W GLS LAMP - ES Cap	240	0.42			Unity	405
69	162422	BJDB 10 CFL	10 W - Retrofit CFL	240					545
70	021240	BJBE 19	CFL 'S' 9 W-(G23 Lamp holder)	240	0.175	O.C. Ballast			725
71	160184	BJDBI 70 SV	70 W HPSV - Elliptical	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	2990
72	161104	BJDBI 70 MH	70 W MHL - SE	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	3335
73	160186	BJWPI 70 SV	70 W HPSV - Elliptical	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	3060
74	161105	BJWPI 70 MH SE	70 W MHL - SE	220/240	0.4	O.C. Ballast	10.00	≥ 0.85	3340
75	022341	BJHB/MB NI Hsg	150 W to 400 W HID lamp	Non integral housing.	Control gear of suitable rating to be used				740
76	162190	BJHBI /MBI 250 MV Hsg	250 W HPMV Lamp	200/220/240	1.3		15.00	≥ 0.85	2630
77	162191	BJHBI / MBI 400 MV Hsg	400 W HPMV Lamp	200/220/240	2.1		20.00	≥ 0.85	3230
78	162192	BJHBI / MBI 150 SV Hsg	150 W HPSV Lamp	220/240	0.8		20.00	≥ 0.85	2620
79	162202	BJHBI/MBI 150W MH (E40) Hsg	150W MHL - E40 holder	220/240	0.8		20.00	≥ 0.85	2670
80	162193	BJHBI / MBI 250 SV Hsg	250 W HPSV LAMP	220/240	1.3		30.00	≥ 0.85	3330
81	162194	BJHBI /MBI 250 MH Hsg	250 W MH Lamp	220/240	1.3		30.00	≥ 0.85	3380
82	022363	BJHBI/MBI 400 SV Hsg	400 W HPSV Lamp	220/240	2.1		42.00	≥ 0.85	4340
83	022359	BJHBI / MBI 400 MH Hsg	400 W MH Lamp	220/240	2.1		42.00	≥ 0.85	4390
84	162195	BJHBI / MBI 250 MMH Hsg	250 W MHL - Mercury based	220/240	1.3		30.00	≥ 0.85	2960
85	162205	BJHBI/ MBI 400 MMH Hsg	400 W MHL- Mercury based	220/240	2.1		42.00	≥ 0.85	3890
86	162010	BJHBI/ MBIS 11 250 MV Hsg	250 W HPMV Lampz	200/220/240	1.3	O.C. Ballast	15.00	≥ 0.85	2800
87	162011	BJHBI/ MBIS 11400 MV Hsg	400 W HPMV Lamp	200/220/240	2.1	O.C. Ballast	20.00	≥ 0.85	3320
88	162012	BJHBI/ MBIS 11 150 SV Hsg	150 W HPSV Lamp	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	2850
89	162015	BJHBI/ MBIS 11 250 SV Hsg	250 W HPSV LAMP	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	3520
90	162040	BJHBI/ MBIS 11 250 MH Hsg	250 W MH Lamp	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	3570
91	168743	BJHBI/ MBIS 400 SV Hsg	400 W HPSV Lamp	220/240	2.1	Electro Magnetic Ballast	42.00	≥ 0.85	4870
92	162041	BJHBI/ MBIS 400 MH Hsg	400 W MH Lamp	220/240	2.1	Electro Magnetic Ballast	42.00	≥ 0.85	4920
93	162043	BJHBI/ MBIS 11 250 MMH Hsg	250 W MHL - Mercury based	200/220/240	1.3	O.C. Ballast	15.00	≥ 0.85	2925
94	162044	BJHBI/ MBIS 400 MMH Hsg	400 W MHL- Mercury based	200/220/240	2.1	O.C. Ballast	20.00	≥ 0.85	3590
95	162006	BJH/MBI F 250 MV Hsg	250 W HPMV Lamp	200/220/240	1.3	O.C. Ballast	15.00	≥ 0.85	2950
96	162007	BJH/ MBI F 400 MV Hsg	400 W HPMV Lamp	200/220/240	2.1	O.C. Ballast	20.00	≥ 0.85	3570
97	162008	BJH/MBI F 150 SV Hsg	150 W HPSV Lamp	220/240	0.8	O.C. Ballast	20.00	≥ 0.85	3090
98	162009	BJH/MBI F 250 SV Hsg	250 W HPSV LAMP	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	3770
99	162045	BJH/MBI F 250 MH Hsg	250 W MH Lamp	220/240	1.3	O.C. Ballast	30.00	≥ 0.85	3820
100	162046	BJH/MBI F250 MMH Hsg	250 W MHL - Mercury based	200/220/240	1.3	O.C. Ballast	15.00	≥ 0.85	3170
101	162047	BJH/MBI F 400 MMH Hsg	400 W MHL- Mercury based	200/220/240	2.1	O.C. Ballast	20.00	≥ 0.85	3840
102	161492	Annodised Aluminium 11 reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral High bay Luminaire						1060
103	161797	GLASKOTE Aluminium reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral High bay Luminaire						1120
104	162048	Annodised Midbay aluminium reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral Mid bay Luminaire						1040
105	180363	GLASKOTE Midbay Aluminium reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral Mid bay Luminaire						1090
106	161493	Totally enclosed Annodised Aluminium 11 reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral High bay Luminaire						1740
107	161796	Totally enclosed GLASKOTE Aluminium 11 reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral High bay Luminaire						1810
108	162049	Totally enclosed Annodised Midbay aluminium reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral Mid bay Luminaire						1775
109	180364	Totally enclosed GLASKOTE Midbay Aluminium reflector	Suitable for Non integral and Vertical / Side Mounting / Front Opening Integral Mid bay Luminaire						1825

Note :

O.C.Ballast = Open Construction Electromagnetic Ballast.

Electronic Ballast are with < 30 % THD

Luminaire fitted with < 10% THD Electronic ballast are also available against customer special requirement

Branch Address

AHMEDABAD

106, Sakar III, Off Ashram Road
 Navrangpura, Ahmedabad 380 014.
 Phone: 27543964, 27543967, 27540397
 Fax: 079-27543950
 Email: lum_am_ahm@bajajelectricals.com

BANGALORE

Bajaj Bhavan, No. 16, Residency Road,
 Bangalore 560 025.
 Phone: 22235486, 22238984, 22275505
 Fax: 080-22214878-22275505
 Email: lum_am_ban@bajajelectricals.com

BHUBANESWAR

Kharavela Nagar, Janpath,
 Bhubaneswar 751 001.
 Phone: 2390697, 2396980, 2394052
 Fax: 0674-2390294
 Email: lum_am_bhu@bajajelectricals.com

CHANDIGARH

SCO 52, Sector-26, Madhya Marg,
 Chandigarh 160 026.
 Phone: 5005778, 5005779
 Fax: 0172-2792932
 Email: lum_am_chd@bajajelectricals.com

CHENNAI

195, Anna Salai, Chennai 600 002.
 Phone: 42162200, Fax: 044-42163300
 Email: lum_am_che@bajajelectricals.com

COCHIN

CRL House, 42/1107, Tata Oil Mills Road,
 Cochin 682 018.
 Phone: 2391119, 2396128, 2392039
 Fax: 0484-2391744
 Email: lum_am_ccn@bajajelectricals.com

DELHI

1/10, Asaf Ali Road, New Delhi 110 002
 Phone: 23236055, 23233056, 23235057
 Fax: 011-23230214
 Email: lum_am_del@bajajelectricals.com

GUWAHATI

Agarwal House, Christian Basti,
 G.S. Road, Guwahati 787 005.
 Phone: 2346497, 2346498, 2346499
 Fax: 0361-2346496
 Email: lum_am_guw@bajajelectricals.com

HARAYANA

1/10, Asaf Ali Road, New Delhi 110 002
 Phone: 23236055, 23233056, 23235057
 Fax: 011-23230214
 Email: lum_am_hyr@bajajelectricals.com

HYDERABAD

H. No. 6-3-1090/2, 3rd Floor,
 Vithal Das Chambers,
 Rajbhavan Road, Somaji Guda,
 Hyderabad 500 082.
 Phone: 23442932, 23442933, 23442934
 Fax: 040-23302745
 Email: lum_am_hyd@bajajelectricals.com

INDORE

Commerce House, 3 rd Floor,
 7 Race Course Road,
 Indore 452 003, MP.
 Phone: 2548909-10-18
 Fax: 0731-2548911
 Email: lum_am_ind@bajajelectricals.com

JAIPUR

Raghukamal Niwas, M. I. Road,
 Jaipur 302 001.
 Phone: 2377364, 2369541, 2369542
 Fax: 0141-2374261
 Email: lum_am_jai@bajajelectricals.com

KOLKATA

10, Ganesh Chandra Avenue,
 Kolkata 700 013.
 Phone: 22379270, 22377657, 22216638
 Fax: 033-22259111
 Email: lum_am_cal@bajajelectricals.com

LUCKNOW

Bajaj Bhavan, 21/32 A, Tilak Marg,
 Lucknow 226 001.
 Phone: 2620595/2613549
 Fax: 0522-2626513
 Email: lum_am_luc@bajajelectricals.com

MUMBAI

Harchandrai House, 3rd Floor, 81,
 Queens Road, Marine Lines,
 Mumbai 400 002.
 Phone: 22089092, 22089093
 Fax: 22089193
 Email: lum_am_mum@bajajelectricals.com

NAGPUR

2nd Floor, Saraf Court, Opp.
 Yashwant Stadium,
 Dhantoli, Nagpur.
 Phone: 2440318, 2440319
 Fax: 0712-2420102
 Email: lum_am_war@bajajelectricals.com

NOIDA

Flat No. 505-507, 5th Floor,
 Vikrant Tower,
 4, Rajendra Place, Pusa Road,
 New Delhi 110 008.
 Phone: 25711961, 25861963, 25861964
 Fax: 011-25861962
 Email: lum_am_dl2@bajajelectricals.com

PATNA

Kashi Place, Dak Bunglow Road,
 Patna 800 001.
 Phone: 2231427, 2220155, 2225911
 Fax: 0612-2231978 / 2231427
 Email: lum_am_pat@bajajelectricals.com

PUNE

Maneck Hall, 2, General Thimmayya Road,
 Pune 411 001.
 Phone: 26360801, 26361321, 26360703
 Fax: 020-26360698
 Email: lum_am_pun@bajajelectricals.com

RAIPUR

Bajaj Bhavan, Doongaji Colony,
 G. E. Road, 2660166
 Near Anupam Udyan, Raipur 492 001.
 Phone: 2263986, 2263976, 4060166
 Fax: 0771-2263310
 Email: lum_am_rai@bajajelectricals.com

LUMINAIRE HEAD OFFICE and R&D OFFICE

15/17, Sant Savta marg, Reay Road,
 Mumbai 400 010.
 Phone: 2376 5000
 Fax: 022-2373 0504

HEAD OFFICE

51, Mahatma Gandhi Road,
 Mumbai 400 001.
 Phone: 22043780, 22851462, 22875135
 Fax: 022-22828250

REGISTERED OFFICE

45/47, Veer Nariman Road,
 Mumbai 400 001.
 Phone: 22043841, 22045046, 22045341
 Fax: 022-22851279

- Due to continuous efforts at developing products / improvement Bajaj Electricals Limited reserves the right to make changes in the design and data without any prior notice.
- The prices are subject to change without any prior notice.
- All dimensions are in mm. Tolerance ± 3 mm



Industrial Lighting

Note



15/17, Sant Savta Marg, Reay Road, Mumbai 400 010. Tel.: 2376 5000, Fax: 2373 0504.
email : luminaires@bajajelectricals.com / Visit us at : www.bajajelectricals.com