Invue

DESCRIPTION

The LuxeScape Collection presents a contemporary, architectural dayform providing superior uniformity and efficient illumination. Designed to enhance urban spaces with beautiful visual appearances and integral control solutions, LuxeScape integrates into any environment while providing high visibility by utilizing industry-leading WaveStream™ LED optics.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction
Housing assembly is IP66 rated and cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. 3G rated construction avoids damages from installation generated vibration. Corrosion-resistant color matching hardware are minimized to enhance appearance.

Optics
Designed for complex site or pedestrian applications, WaveStream™ LED optical waveguide technology produces both symmetric NEMA Type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic delivering visual comfort and optically controlled illumination for improved glare control. Luminaire efficacy measures in excess of 100 lm/W for 4000K (+/- 275K) CCT at 70 CRI (min). Optional 3000K CCT at 70 CRI or 3000K CCT at 80 CRI also available.

Electrical
LED drivers are uniquely positioned and mounted for maximum thermal performance and extended life. Standard 0-10V dimming drivers and surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V 60Hz or 480V 60Hz operation optional. Suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
Control options are designed to be simple, cost-effective, energy code, and regulation compliant solutions. Requires a 7-PIN NEMA twistlock photocontrol receptacle. An integrated dimming and occupancy sensor is a stand-alone control option available in On/Off (MS) and bi-level dimming (MS/ DIM) operation. The optional LumaWatt Pro system is a wireless network of luminaire-integral sensors. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication.

Mounting
Invue's aluminum round decorative pole (ARP) offering provides a seamless transition and compliments the contemporary design architecture with its unique sleek taper and base design. The tenon mount pole comes standard with an access door feature integrated into the base.

Spider & Cantilever Mount
Fitter assembly mounts over 3" O.D. tenon and can be adapted to a 2-3/8" tenon. It is secured via concealed, corrosion resistant set screw and jam screw pairs in six inconspicuous locations. Fitter design provides seamless transition to 4" O.D. round pole top. Optional mounting accessories include a twin arm mount and wall mount arm.

Finish
Eaton utilizes premium ultra-weatherable TGIC based polyester powder coatings specifically formulated to withstand extended outdoor exposure while providing decorative appeal. Finish is compliant to 3,000 hour salt spray standard (per ASTM B117). RAL and custom color matches available.

Warranty
Five-year warranty.

LXS LUXESCAPE COLLECTION

DECORATIVE LUMINAIRE

CERTIFICATION DATA
UL/cUL Listed
FCC Class A
IEC 60529 IP66 Housing
ANSI C136.31 3G Vibration
ASTM A356.0 Low Copper Alloy
ASTM B117 Salt Spray Tested
RoHS
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V 60Hz, 480V 60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

EPA
Effective Projected Area: (Sq. Ft.)
Cantilever Mount: 1.3
**Spider Mount:** 1.6

SHIPPING DATA
Approximate Net Weight:
Cantilever Mount Weight: 46 lbs. [20.8 kgs.]
**Spider Mount Weight:** 53 lbs. [24 kgs.]

DIMENSIONS

Spider Mount

33" [839mm]

4" [102mm]

25-13/64" [639mm]

Cantilever Mount

28-5/8" [727mm]

4" [102mm]

25-13/64" [639mm]
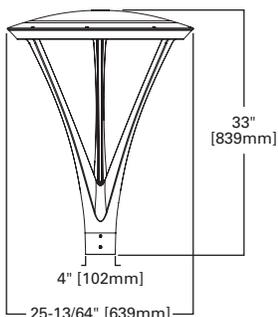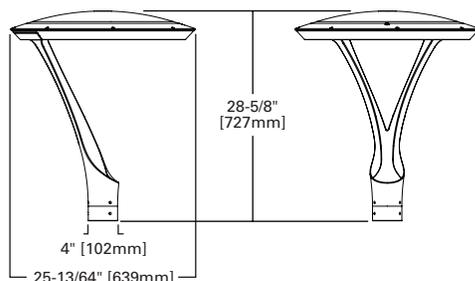
MOUNTING CONFIGURATIONS (EPAS INCLUDES FIXTURE)

Twin mount arm (shown with Cantilever mount)

41-1/4"
[1048mm]

8-1/4"
[208mm]

19" [483mm]

Wall mount arm (shown with Cantilever mount)

28"
[712mm]
To the top of
wall mount bracket

41-3/4"
[1175mm]

14-1/4"
[363mm]

19" [483mm]

Twin mount arm (shown with Spider mount)

36-3/4"
[1048mm]

8-1/4"
[208mm]

19" [483mm]

Wall mount arm (shown with Spider mount)

32-1/2"
[824mm]
To the top of
wall mount bracket

46-1/4"
[1175mm]

14-1/4"
[363mm]

19" [483mm]

Twin mount arm (EPA 1.36)

3" [76mm]   3" [76mm]

(2) 4"
[102mm]

(2) 8-3/16"
[208mm]

19" [483mm]

Wall Mount Arm

3" [76mm]

4"
[102mm]

8-7/16"
[214mm]

19" [482mm]

MOUNTING REQUIREMENTS CHART
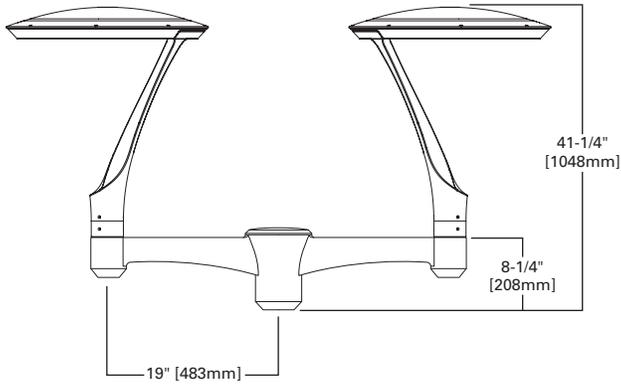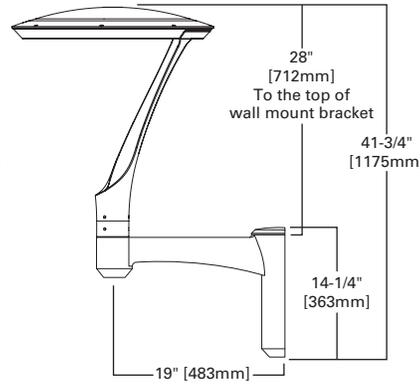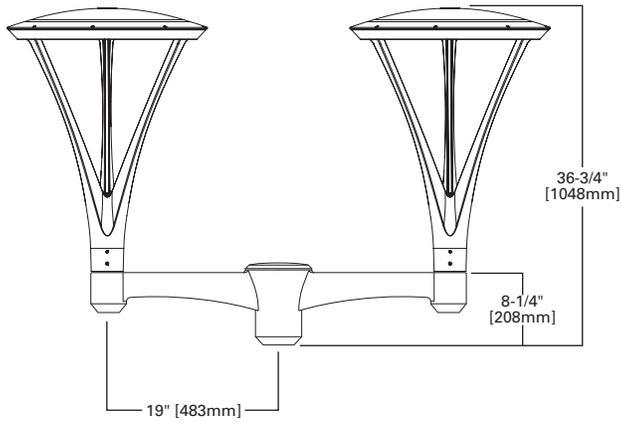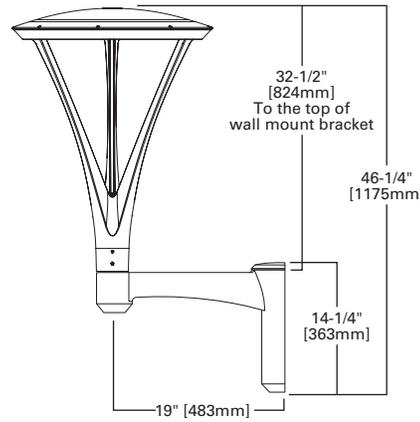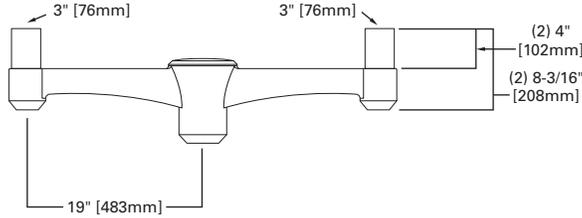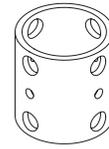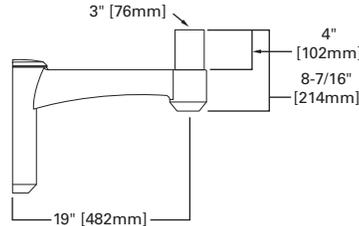
ARP2*

| Pole Top O.D. (Inches)	4"	
Tenon O.D. (Inches)	2-3/8" Tenon	3" Tenon
Post Top	ARPA2*	Standard
Twin Mount Arm	ARPA2*	Standard

* Required for stability. Order separately.

WALL MOUNT ARM DRILL PATTERN

1-1/2"
[32mm]

(6) ø1/2"
[14mm]

ø1-1/2"
[38mm]

6"
[152mm]

4"
[102mm]

3"
[76mm]
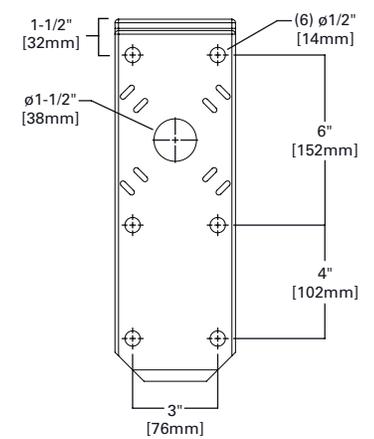
POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)
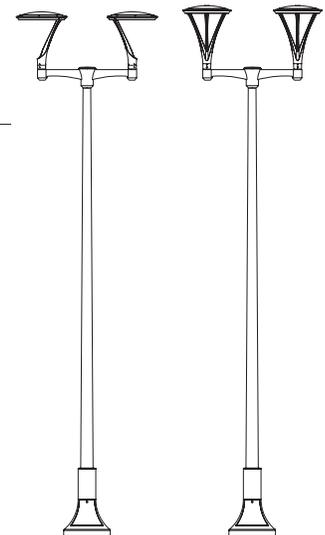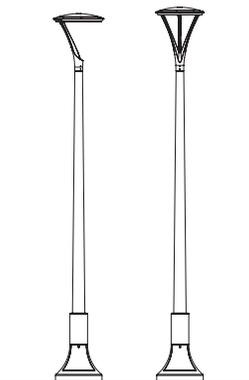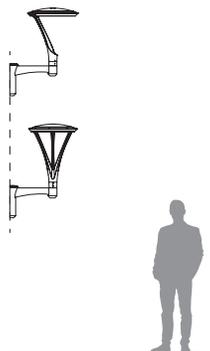
Wall mount arm
8-10 ft. Mounting heights
(Spider / Cantilever mount only)

Single post top
10-18 ft. Mounting heights
(Spider / Cantilever mount only)

Twin mount arm
18-22 ft. Mounting heights
(Spider / Cantilever mount only)

CONTROL OPTIONS

0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7)
Photocontrol receptacles (PER and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

For mounting heights up to 8' (-L08 - Cutoff 8' to 24')

For mounting heights up to 40' (-L40W)

For mounting heights up to 20' (-L20)
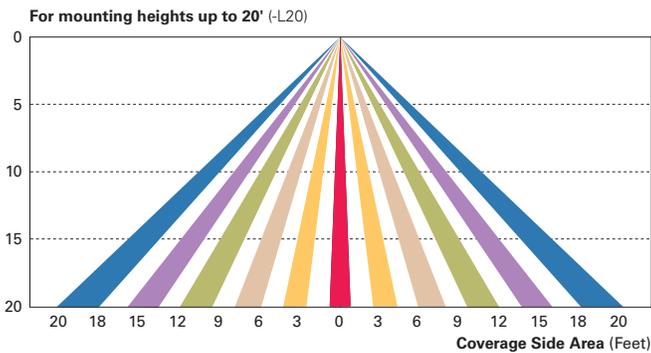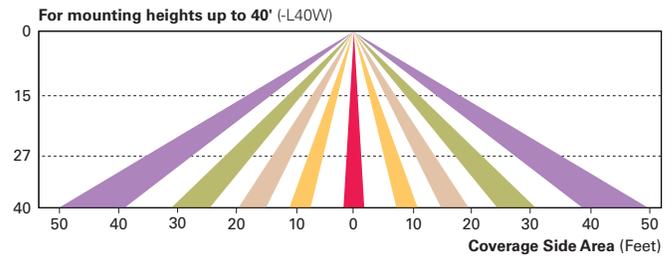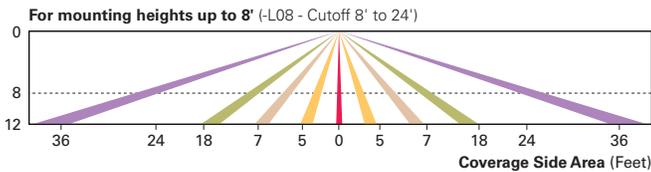
LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)
The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)

For mounting heights from 16' to 40' (LWR-LN)
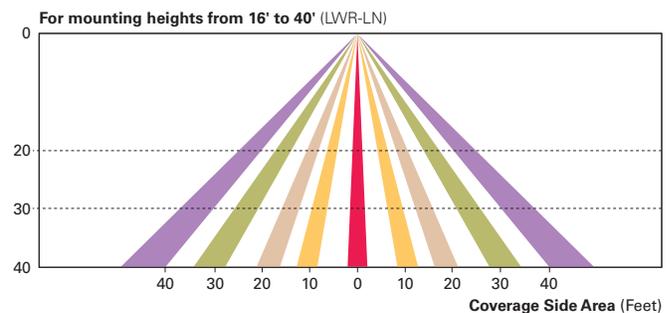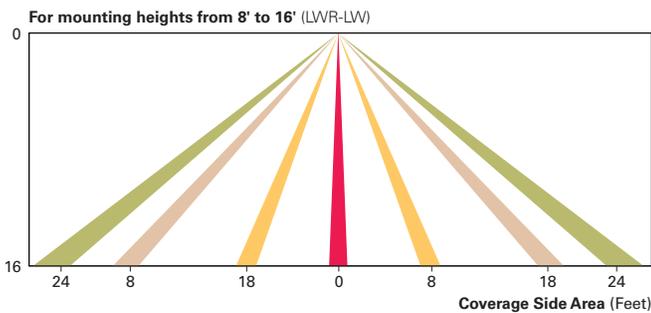
WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

POWER AND LUMENS

Lumen Package		B1	B2	B3	B4
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Spider	1,923	3,691	6,642	-
	Cantilever	2,006	3,850	6,929	-
Type III	Spider	2,265	4,347	7,823	-
	Cantilever	2,391	4,589	8,258	-
Type IV	Spider	2,374	4,557	8,200	-
	Cantilever	2,510	4,818	8,669	-
Type V	Spider	2,490	4,969	9,131	10,595
	Cantilever	2,530	5,049	9,277	10,765

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Lumen Multiplier
4000	70	1.00
3000	80	0.91

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

BUG RATINGS

		Lumen Package			
Distribution		B1	B2	B3	B4
Cantilever	Type II	B1-U0-G1	B2-U0-G2	B3-U0-G3	-
	Type III	B1-U1-G1	B1-U1-G2	B2-U1-G3	-
	Type IV	B1-U1-G1	B1-U1-G2	B2-U1-G3	-
	Type V	B2-U1-G1	B3-U1-G2	B3-U2-G3	B4-U2-G3
Spider	Type II	B1-U1-G1	B2-U1-G2	B3-U1-G3	-
	Type III	B1-U1-G1	B1-U1-G2	B2-U1-G2	-
	Type IV	B1-U1-G1	B1-U1-G2	B2-U1-G3	-
	Type V	B2-U1-G1	B3-U1-G2	B3-U2-G2	B4-U2-G3

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

ORDERING INFORMATION

Sample Number: LXS-B2-LED-D1-T2-GM-S

Product Family [1]	Lumens [2]	Lamp Type [4]	Voltage	Distribution	Color	Mounting
LXS=LuxeScape Collection	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [3]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5, 6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **CC**=Custom Color [7]	**S**=Spider Mount **C**=Cantilever Mount

Options (Add as Suffix)	Accessories (Order Separately) [20]
7030=70 CRI / 3000K CCT [8] **8030**=80 CRI / 3000K CCT [8] **PC**=Button Type Photocontrol (Must specify voltage) [9] **PER**=Standard 3-PIN Photocontrol Receptacle [9] **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [9, 10] **HA**=50°C High Ambient [11] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [12, 13, 14] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [12, 13, 15] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [12, 13, 16] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [12, 13, 14] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [12, 13, 15] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [12, 13, 16] **LWR-LW**=LumaWatt Pro Wireless Sensor, Wide Lens 8' - 16' Mounting Height [17] **LWR-LN**=LumaWatt Pro Wireless Sensor, Narrow Lens 16' - 40' Mounting Height [17] **5LTD**=Fifth Light Dali Driver [18] **DIM**=0-10V External Dimming Leads [19] **VS**=Tempered Glass Vandal Shield	**FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [21] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-PIN) [22] **ARPA2**=2-3/8" O.D. Tenon Sleeve Adapter [23] **VA6028-XX**=Twin Mount Arm (EPA 1.36 sq./ft.) [20, 23] **VA6029-XX**=Wall Mount Arm [20, 23]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
2. Lumens are nominal. See lumen table for more information.
3. B4 only available with Type V distribution.
4. Standard 4000K CCT, nominal 70 CRI.
5. Requires the use of a step down transformer.
6. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with MS-LXX, MS/DIM-LXX, LWR-LW, LWR-LN or 347V or 480V options.
10. Compatible with standard 3-PIN photocontrols and 5-PIN or 7-PIN ANSI controls.
11. Not available with Type II, III and IV B3 optics.
12. Not available with HA option.
13. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative at Eaton for more information.
14. Approximately 22' detection diameter at 8' mounting height.
15. Approximately 40' detection diameter at 20' mounting height.
16. Approximately 100' detection diameter at 40' mounting height.
17. LumaWatt Pro wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-Po in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
18. Only available with B3 and B4 lumen packages.
19. Low voltage control leads brought out 18" outside fixture. Not available with control options.
20. Replace XX with color designation.
21. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle. WOLC-7P-10A cannot be used in conjunction with additional sensors or controls.
23. Not vibration rated at this time. Consult your lighting representative at Eaton for more information.

ARP ORDERING INFORMATION (ALUMINUM DECORATIVE POLE)

SAMPLE NUMBER: ARP5L310ABZ2

Product Family	Shaft Size (Inches) [1]	Wall Thickness (Inches)	Pole Top Diameter (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
ARP=Aluminum Round Tapered Decorative	**5**=5"	**L**=0.156" **M**=0.188"	**3**=3" O.D. [2] **6**=4" O.D. [3]	**10**=10' **12**=12' **14**=14' **16**=16' **18**=18' [4]	**A**=Aluminum (Round 4-Bolt Pole)	**AP**=Grey **BA**=Anodized Bronze **BK**=Black **BZ**=Bronze **CA**=Anodized Clear **DA**=Anodized Black **DP**=Dark Platinum **GM**=Graphite Metallic **GN**=Hartford Green **WH**=White	**2**=2-3/8" O.D. Tenon (4" Long) **5**=3" O.D. Tenon (4" Long)	**X**=None	**C**=Convenience Outlet [5] **E**=GFCI Convenience Outlet [5] **G**=Ground Lug **V**=Vibration Dampener [4]

NOTES 1 All shaft sizes nominal. **2** Provides 3" O.D. pole top suited for Arbor Post Top. **3** Provides 4" O.D. pole top suited for LuxeScape post tops. **4** Vibration damper recommended over 18 feet add suffix "V" to catalog number. **5** Specify outlet location. Receptacle not included, provision only.

ANCHORAGE DATA
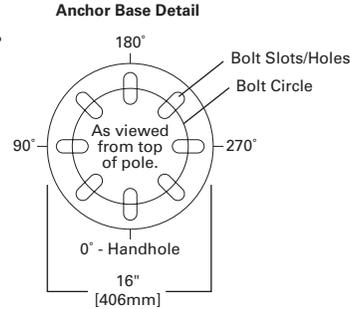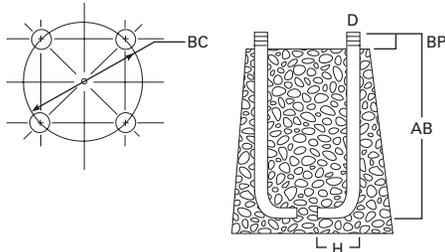
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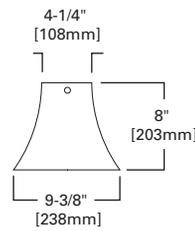
Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB [1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	57	20.0	17.5	14.1	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	62	18.2	14.1	11.2	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	67	14.8	11.4	9.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	72	12.0	9.1	7.0	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	77	9.5	7.1	5.4	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	77	7.6	5.6	4.3	120
18	ARP5M618A	0.188	9.0	3.5	5 X 4	3/4 x 17 x 3	83	9.5	7.1	5.6	120

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB [1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	57	19.6	15.3	12.3	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	62	16.1	12.5	9.9	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	67	13.2	10.1	8.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	72	10.6	8.0	6.2	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	77	8.5	6.4	4.8	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	77	7.6	5.6	4.3	120
18	ARP5M618A	0.188	9.0	3.5	5 X 4	3/4 x 17 x 3	83	9.5	7.1	5.6	120