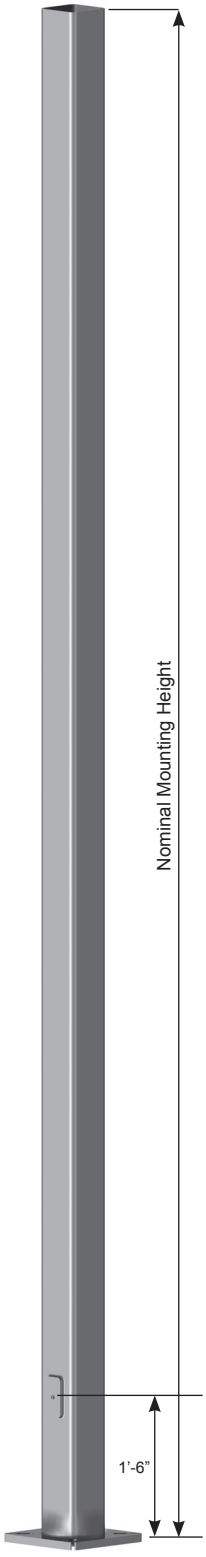
valmont STRUCTURES

# SOFT SQUARE STEEL DS330
## Fatique Resistant

| | |
|---|---|
| Job Name: Atlantic Subaru | Client Name: Atlantic Subaru |
| Job Location - City: Bourne State: MA | Created By: Date: |
| Product: DS330 ---- Quote: | Customer Approval: Date: |






**Tenon Top***

**Pole Cap - Plastic**

**Cross Section**

**Handhole**

**Full Base Cover (Standard)**

**Dart Square - 2T (Optional)**

## SPECIFICATIONS

**Pole** - The pole shaft is fabricated from hot rolled commercial quality carbon steel of one-piece construction with a minimum yield strength of 55,000 psi.

**Pole Top** - A removable pole cap is provided for poles receiving drilling patterns for side-mount luminaire arm assemblies. For top mount luminaire and/or bracket consult the factory.

**Handhole** - A covered handhole and grounding provision with hardware is provided.

**Full Base Cover** - The two-piece standard full base cover is fabricated from ABS plastic. Optional Dart Square-2T cast and decorative base covers available as special order.

**Anchor Base** - The anchor base (base plate) conforms to ASTM A36.

**Anchor Bolts** - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an “L” bend on one end and are galvanized a minimum of 12” on the threaded end.

**Hardware** - All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

**Finish** - Standard finishes are galvanized, prime painted or any of Valmont’s V-PRO™ Protection Systems. Additional finish options available upon request.

**Design Criteria** - Please reference Design Criteria Specification for appropriate design conditions.

* Consult factory on loading criteria for pole top mounted luminaires and/or brackets.

# SOFT SQUARE STEEL DS330

## Fatique Resistant

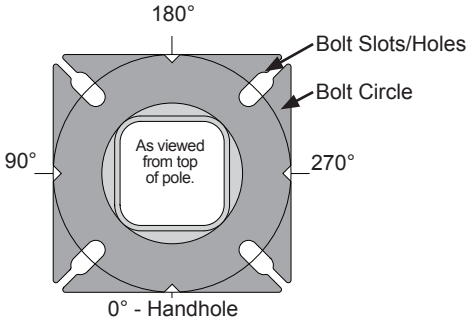
valmont STRUCTURES

| | | | |
|---|---|---|---|
| Job Name: Atlantic Subaru | | Client Name: Atlantic Subaru | |
| Job Location - City: Bourne | State: MA | Created By: | Date: |
| Product: DS330 ---- | Quote: | Customer Approval: | Date: |

## ANCHORAGE DATA

| POLE | | BASE PLATE | | | | ANCHOR BOLTS | | |
|---|---|---|---|---|---|---|---|---|
| POLE BASE SQUARE (IN) | WALL THK (GA) | BOLT CIRCLE DIA (IN) | BOLT CIRCLE ± (IN) | SQUARE (IN) | THK (IN) | DIA x LENGTH x HOOK (IN) | PROJECTION (IN) | ± (IN) |
| 4.00 | 11 | 8.50 | 0.50 | 8.25 | 0.750 | 0.75 x 17.00 x 3.00 | 3.50 | 0.25 |
| 4.00 | 7 | 8.50 | 0.50 | 8.25 | 0.875 | 0.75 x 17.00 x 3.00 | 3.63 | 0.25 |
| 5.00 | 11 | 11.00 | 1.00 | 11.00 | 1.000 | 0.75 x 17.00 x 3.00 | 3.75 | 0.25 |
| 5.00 | 7 | 11.00 | 1.00 | 11.00 | 1.000 | 0.75 x 17.00 x 3.00 | 3.75 | 0.25 |
| 6.00 | 7 | 12.00 | 1.00 | 12.50 | 1.000 | 1.00 x 36.00 x 4.00 | 4.25 | 0.25 |

**Anchor Base Detail**




## LOAD AND DIMENSIONAL DATA

| DESIGN INFORMATION | | | | | | | POLE DIMENSIONS (3) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 80 MPH w/1.3 GUST | | 90 MPH w/1.3 GUST | | 100 MPH w/1.3 GUST | | | | | | |
| NOMINAL MOUNTING HEIGHT | MAX EPA[1] (SQ FT) | MAX WEIGHT[1] (LBS) | MAX EPA[1] (SQ FT) | MAX WEIGHT[1] (LBS) | MAX EPA[1] (SQ FT) | MAX WEIGHT[1] (LBS) | BASE SQUARE OD (3) (IN) | TOP SQUARE OD (IN) | WALL THK (GA) | STRUCTURE WEIGHT[2] (LBS) | MODEL NUMBER |
| 10'-0" | 30.6 | 765 | 23.8 | 595 | 18.9 | 473 | 4.00 | 4.00 | 11 | 75 | S400Q100 |
| 12'-0" | 24.4 | 610 | 18.8 | 470 | 14.8 | 370 | 4.00 | 4.00 | 11 | 90 | S400Q120 |
| 14'-0" | 19.9 | 498 | 15.1 | 378 | 11.7 | 293 | 4.00 | 4.00 | 11 | 100 | S400Q140 |
| 16'-0" | 15.9 | 398 | 11.8 | 295 | 8.9 | 223 | 4.00 | 4.00 | 11 | 115 | S400Q160 |
| 18'-0" | 12.6 | 315 | 9.2 | 230 | 6.7 | 168 | 4.00 | 4.00 | 11 | 125 | S400Q180 |
| 20'-0" | 9.6 | 240 | 6.7 | 167 | 4.5 | 150 | 4.00 | 4.00 | 11 | 140 | S400Q200 |
| | 17.7 | 443 | 12.7 | 343 | 9.4 | 235 | 5.00 | 5.00 | 11 | 185 | S500Q200 |
| | 28.1 | 703 | 21.4 | 535 | 16.2 | 405 | 5.00 | 5.00 | 7 | 265 | S500W200 |
| 25'-0" | 4.8 | 150 | 2.6 | 100 | 1.0 | 50 | 4.00 | 4.00 | 11 | 170 | S400Q250 |
| | 10.8 | 270 | 7.7 | 188 | 5.4 | 135 | 4.00 | 4.00 | 7 | 245 | S400W250 |
| | 9.8 | 245 | 6.3 | 157 | 3.7 | 150 | 5.00 | 5.00 | 11 | 225 | S500Q250 |
| | 18.5 | 463 | 13.3 | 333 | 9.5 | 238 | 5.00 | 5.00 | 7 | 360 | S500W250 |
| 30'-0" | 6.7 | 168 | 4.4 | 110 | 2.6 | 65 | 4.00 | 4.00 | 7 | 291 | S400W300 |
| | 4.7 | 150 | 2.0 | 50 | N/A | N/A | 5.00 | 5.00 | 11 | 265 | S500Q300 |
| | 10.7 | 267 | 6.7 | 167 | 3.9 | 100 | 5.00 | 5.00 | 7 | 380 | S500W300 |
| | 19.0 | 475 | 13.2 | 330 | 9.0 | 225 | 6.00 | 6.00 | 7 | 520 | S600W300 |
| 35'-0" | 5.9 | 150 | 2.5 | 100 | N/A | N/A | 5.00 | 5.00 | 7 | 440 | S500W350 |
| | 12.4 | 310 | 7.6 | 190 | 4.2 | 105 | 6.00 | 6.00 | 7 | 540 | S600W350 |
| 40'-0" | 7.2 | 180 | 3.0 | 75 | N/A | N/A | 6.00 | 6.00 | 7 | 605 | S600W400 |

1. Maximum EPA (Effective Projected Area) and weight values are based on side mounted fixtures only. Consult factory on loading criteria for pole top mounted luminaires and/or brackets. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.
3. Belled-bottom will have reduced thickness due to the cold-working process. However, the belled-bottom meets or exceeds the structural capacity of the original square section. In addition, the rounded section provides better fatigue resistance.

## PRODUCT ORDERING CODES

| DESIGN SERIES | MODEL NUMBER | FIXTURE MOUNTING | FINISH | COLOR | V-PRO™ PROTECTION SYSTEM | OPTIONS |
|---|---|---|---|---|---|---|
| DS330 | | | | -- | -- | |
| | S400Q100<br>S400Q120<br>S400Q140<br>S400Q160<br>S400Q180<br>S400Q200<br>S500Q200<br>S500W200<br>S400Q250<br>S400W250<br>S500Q250<br>S500W250<br>S400W300<br>S500Q300<br>S500W300<br>S600W300<br>S500W350<br>S600W350<br>S600W400 | **Drill Mounting**<br>D1 = 1 Luminaire<br>D2 = 2 @ 180°<br>D4 = 4 @ 90°<br>D5 = 2 @ 90°<br>D6 = 3 @ 90°<br>**Tenon Mounting**<br>P2 = 2.38" OD x 4.00"<br>P4 = 4.00" OD x 6.00" | GV = Galvanize<br>PP = Prime Paint<br>FP = Finish Paint<br>GF = Galvanized + Finish Paint | -- = Galvanize<br>-- = Prime Paint<br>WH = White<br>ST = Sandstone<br>BK = Black<br>SM = Silver Metallic<br>SL = Silver<br>LG = Light Gray<br>SG = Slate Gray<br>DT = Dark Tan<br>MB = Medium Bronze<br>CB = Bronze<br>DB = Dark Bronze<br>BN = Brown<br>HG = Hunter Green<br>DG = Dark Green<br>RD = Red<br>SC = Special Color (Contact Factory) | -- = Galvanize<br>-- = Prime Paint<br>V1 = V-PRO 1<br>Basic 1 Coat Powder.<br>V2 = V-PRO 2<br>2 Coat Powder or Liquid. Includes epoxy primer & top coat.<br>V3 = V-PRO 3<br>2 Coat Powder or Liquid. Includes zinc primer & top coat.<br>V4 = V-PRO 4<br>2 Coat Powder or Liquid. Includes zinc primer & premium top coat. | See Accessories at valmontstructures.com<br>(Please Specify) |

valmontstructures.com carries the most current spec information and supersedes these guidelines.

SPC7207 03/14

# SEC-EDG-4M/4MB-WM

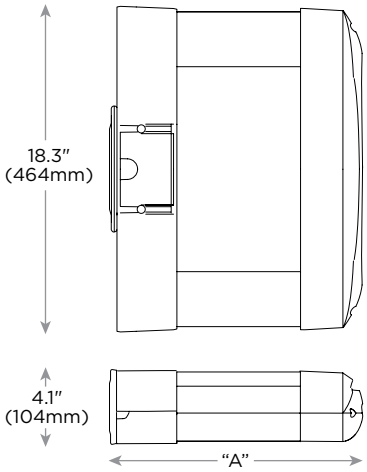
Cree Edge™ Security Wall Pack Luminaire – Type IV Medium – Wall Mount

## Product Description

Slim, low profile design. Luminaire end cap is rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Furnished with low copper lightweight mounting box designed for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf / debris guard.

## Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 5700K (+ / - 500K) Standard, 4000K (+ / - 300K)
- **Limited Warranty†:** 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish




| LED Count (x10) | Dim. "A" |
|---|---|
| 02 | 9.9" (251mm) |
| 04 | 11.9" (303mm) |
| 06 | 13.9" (353mm) |
| 08 | 15.9" (404mm) |
| 10 | 17.9" (455mm) |
| 12 | 19.9" (505mm) |

## Accessories

| Field Installed Accessories |
|---|
| **XA-BRDSPK**<br>Bird Spikes |

## Ordering Information

Example: SEC-EDG-4M-WM-02-E-UL-SV-350-OPTIONS

| SEC-EDG | | WM | | E | | | | |
|---|---|---|---|---|---|---|---|---|
| **Product** | **Optic** | **Mounting** | **LED Count (x10)** | **Series** | **Voltage** | **Color Options** | **Drive Current** | **Options** |
| **SEC-EDG** | **4M**<br>Type IV<br>Medium<br>**4MB**<br>Type IV<br>Medium<br>w/ BLS | **WM**<br>Wall | **02**<br>**04**<br>**06**<br>**08**<br>**10**<br>**12** | **E** | **UL**<br>Universal<br>120–277V<br>**UH**<br>Universal<br>347–480V<br>**34**<br>347V | **SV**<br>Silver (Standard)<br>**BK**<br>Black<br>**BZ**<br>Bronze<br>**PB**<br>Platinum Bronze<br>**WH**<br>White | **350**<br>350mA<br>**525***<br>525mA<br>**700****<br>700mA | **40K 4000K Color Temperature**<br>- Color temperature per luminaire<br>**DIM 0–10V Dimming**<br>- Control by others<br>- Refer to dimming spec sheet for details<br>- Can't exceed specified drive current<br>**F Fuse**<br>- Not available with UH or 34 voltages<br>- Not available with all ML options. Refer to ML spec sheet for availability with ML options<br>**P Photocell**<br>- Not available with all ML options. Refer to ML spec sheet for availability with ML options<br>- Must specify voltage other than UH<br>**ML Multi-Level**<br>- Refer to ML spec sheet for details |

† See www.cree.com/lighting/products/warranty for warranty terms
* Available on luminaires with 20–80 LEDs
** Available on luminaires with 20–60 LEDs

Rev. Date: 12/20/13

www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

## Product Specifications

### CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16″ (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf / debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and platinum bronze are also available

### ELECTRICAL SYSTEM

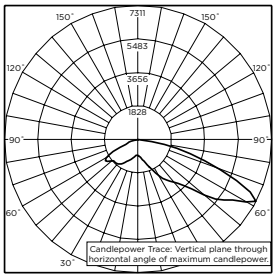
- **Input Voltage:** 120–277V or 347–480V, 50 / 60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C / D breaker should be used

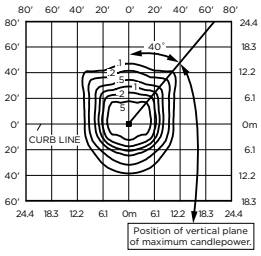
### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or ML options
- Consult factory for CE Certified products
- 10kV surge suppression protection tested in accordance with IEEE / ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Product qualified on the DesignLights Consortium™ (“DLC”) Qualified Products List (“QPL”) when ordered without full backlight control shield
- Dark Sky Friendly, IDA Approved
- Meets Buy American requirements within ARRA

## Photometry

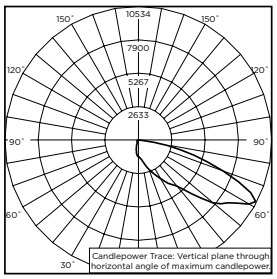
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.

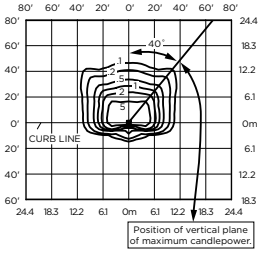



**ITL Test Report #**: 78793
SEC-EDG-4M-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 11,607

SEC-EDG-4M-**-08-E-UL-525-40K
**Mounting Height:** 10′ (3.0m) A.F.G.
**Initial Delivered Lumens:** 11,835
Initial FC at grade




**CSA Test Report #**: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
**Initial Delivered Lumens**: 13,155

SEC-EDG-4MB-**-08-E-UL-525-40K
**Mounting Height:** 10′ (3.0m) A.F.G.
**Initial Delivered Lumens:** 8,915
Initial FC at grade

**IES Files**
To obtain an IES file specific to your project consult:
http://www.cree.com/lighting/tools-and-support/exterior-ies-configuration-tool

## Weight

| LED Count (x10) | Weight |
|---|---|
| 02 | 20 lbs (9.1kg) |
| 04 | 22 lbs (10.0kg) |
| 06 | 25 lbs (11.3kg) |
| 08 | 27 lbs (12.2kg) |
| 10 | 31 lbs (14.1kg) |
| 12 | 32 lbs (14.5kg) |

## Lumen Output, Electrical, and Lumen Maintenance Data

| Type IV Medium and Type IV Medium Distribution w/ BLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LED Count (x10) | 5700K | | | | 4000K | | | | System Watts 120–480V | TOTAL CURRENT | | | | | | 50K Hours Projected Lumen Maintenance Factor @ 15˚C (59˚F)*** |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens w/ BLS* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens w/ BLS* | BUG Ratings** Per TM-15-11 | | 120V | 208V | 240V | 277V | 347V | 480V | |
| **350mA @ 25˚C (77˚F)** | | | | | | | | | | | | | | | | |
| 02 | 2,220 | B1 U0 G1 | 1,672 | B0 U0 G1 | 2,138 | B1 U0 G1 | 1,610 | B0 U0 G1 | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 | 93% |
| 04 | 4,440 | B1 U0 G1 | 3,345 | B1 U0 G1 | 4,276 | B1 U0 G1 | 3,221 | B1 U0 G1 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 | |
| 06 | 6,584 | B2 U0 G2 | 4,959 | B1 U0 G1 | 6,340 | B2 U0 G2 | 4,776 | B1 U0 G1 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 | |
| 08 | 8,779 | B2 U0 G2 | 6,613 | B1 U0 G2 | 8,454 | B2 U0 G2 | 6,368 | B1 U0 G2 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 | |
| 10 | 10,947 | B2 U0 G2 | 8,246 | B1 U0 G2 | 10,542 | B2 U0 G2 | 7,941 | B1 U0 G2 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 | |
| 12 | 13,137 | B3 U0 G3 | 9,895 | B1 U0 G2 | 12,650 | B3 U0 G3 | 9,529 | B1 U0 G2 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 | |
| **525mA @ 25˚C (77˚F)** | | | | | | | | | | | | | | | | |
| 02 | 3,108 | B1 U0 G1 | 2,341 | B0 U0 G1 | 2,993 | B1 U0 G1 | 2,254 | B0 U0 G1 | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 | 92% |
| 04 | 6,216 | B2 U0 G2 | 4,682 | B1 U0 G1 | 5,986 | B2 U0 G1 | 4,509 | B1 U0 G1 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 | |
| 06 | 9,218 | B2 U0 G2 | 6,943 | B1 U0 G2 | 8,876 | B2 U0 G2 | 6,686 | B1 U0 G2 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 | |
| 08 | 12,290 | B3 U0 G3 | 9,258 | B1 U0 G2 | 11,835 | B2 U0 G2 | 8,915 | B1 U0 G2 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 | |
| **700mA @ 25˚C (77˚F)** | | | | | | | | | | | | | | | | |
| 02 | 3,796 | B1 U0 G1 | 2,860 | B0 U0 G1 | 3,656 | B1 U0 G1 | 2,754 | B0 U0 G1 | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 | 90% |
| 04 | 7,593 | B2 U0 G2 | 5,719 | B1 U0 G2 | 7,311 | B2 U0 G2 | 5,507 | B1 U0 G1 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 | |
| 06 | 11,259 | B2 U0 G2 | 8,481 | B1 U0 G2 | 10,842 | B2 U0 G2 | 8,167 | B1 U0 G2 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 | |

* Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf
*** For recommended lumen maintenance factor data see TD-13. Calculated $L_{70}$ based on 6,000 hours LM-80-08 testing: > 100,000 hours

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**www.cree.com/lighting** T (800) 236-6800 F (262) 504-5415

# Cree Edge™ Series

LED Area/Flood Luminaire

## Product Description

The Cree Edge Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, or Side Arm (details on page 2). Includes a leaf/debris guard.
**Applications:** Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

## Performance Summary

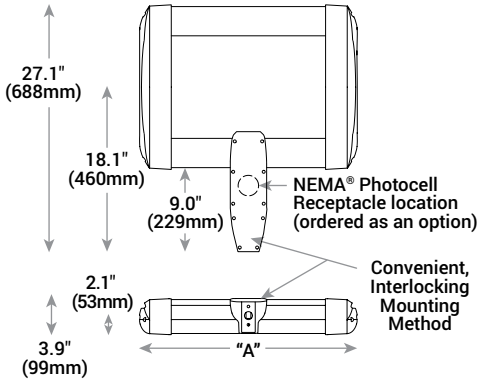
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See www.cree.com/lighting/products/warranty for warranty terms

## Accessories

| Field-Installed | |
|---|---|
| **Bird Spikes**<br>XA-BRDSPK<br>**Hand-Held Remote**<br>XA-SENSREM<br>- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required | **Backlight Control Shields**<br>XA-20BLS-4<br>- Four-pack<br>- Unpainted stainless steel |

**DA Mount**




| LED Count (x10) | Dim. "A" | Weight |
|---|---|---|
| 02 | 12.1" (306mm) | 21 lbs. (10kg) |
| 04 | 12.1" (306mm) | 24 lbs. (11kg) |
| 06 | 14.1" (357mm) | 27 lbs. (12kg) |
| 08 | 16.1" (408mm) | 28 lbs. (13kg) |
| 10 | 18.1" (459mm) | 32 lbs. (15kg) |
| 12 | 20.1" (510mm) | 34 lbs. (15kg) |
| 14 | 22.1" (560mm) | 37 lbs. (17kg) |

**AA/SA Mount -** see page 21 for weight & dimensions

## Ordering Information

Example: ARE-EDG-2M-AA-12-E-UL-SV-350

| | | | | | E | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Product** | **Optic** | | | **Mounting*** | **LED Count (x10)** | **Series** | **Voltage** | **Color Options** | **Drive Current** | **Options** |
| **ARE-EDG** | **2M**<br>Type II Medium<br>**2MB**<br>Type II Medium w/BLS<br>**2MP**<br>Type II Medium w/ Partial BLS<br>**3M**<br>Type III Medium | **3MB**<br>Type III Medium w/BLS<br>**3MP**<br>Type III Medium w/Partial BLS<br>**4M**<br>Type IV Medium<br>**4MB**<br>Type IV Medium w/BLS | **4MP**<br>Type IV Medium w/Partial BLS<br>**5M**<br>Type V Medium<br>**5S**<br>Type V Short | **AA**<br>Adjustable Arm<br>**DA**<br>Direct Arm<br>**SA**<br>Side Arm<br>- Available with 20-60 LEDs | **02**<br>**04**<br>**06**<br>**08**<br>**10**<br>**12**<br>**14** | **E** | **UL**<br>Universal 120-277V<br>**UH**<br>Universal 347-480V | **BK**<br>Black<br>**BZ**<br>Bronze<br>**SV**<br>Silver<br>**WH**<br>White | **350**<br>350mA<br>**525**<br>525mA<br>**700**<br>700mA<br>- Available with 20-60 LEDs | **DIM 0-10V Dimming**<br>- Control by others<br>- Refer to Dimming spec sheet for details<br>- Can't exceed specified drive current<br>**F Fuse**<br>- Refer to ML spec sheet for availability with ML options<br>- Available with UL voltage only<br>- When code dictates fusing, use time delay fuse<br>**HL Hi/Low (Dual Circuit Input)**<br>- Refer to HL spec sheet for details<br>- Sensor not included<br>**ML Multi-Level**<br>- Refer to ML spec sheet for details<br>- Intended for downlight applications at 0° tilt<br>**P Photocell**<br>- Refer to ML spec sheet for availability with ML options<br>- Available with UL voltage only<br>**PML Programmable Multi-Level, 20-40' Mounting Height**<br>- Refer to PML spec sheet for details<br>- Intended for downlight applications at 0° tilt<br>**PML2 Programmable Multi-Level, 10-30' Mounting Height**<br>- Refer to PML spec sheet for details<br>- Intended for downlight applications at 0° tilt<br>**R NEMA® Photocell Receptacle**<br>- Intended for downlight applications with maximum 45° tilt<br>- Photocell by others<br>- Refer to ML spec sheet for availability with ML options<br>**40K 4000K Color Temperature**<br>- Minimum 70 CRI<br>- Color temperature per luminaire |
| **FLD-EDG** | **25**<br>25° Flood<br>**40**<br>40° Flood | **70**<br>70° Flood<br>**SN**<br>Sign | **N6**<br>NEMA® 6 | | | | | | | |

* Reference EPA and pole configuration suitability data beginning on page 19
NOTE: Price adder may apply depending on configuration



US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

## Product Specifications

### CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 21

### ELECTRICAL SYSTEM

- **Input Voltage :** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor :** > 0.9 at full load
- **Total Harmonic Distortion :** < 20% at full load
- DA mount designed with integral weathertight electrical box with terminal strips (12Ga–20Ga) for easy power hookup
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **Maximium 10V Source Current:** 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-140 LED: 0.30mA

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA and DA mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control or 3MP optic with 20 LEDs. Please refer to www.designlights.org/QPL for most current information
- Meets Buy American requirements within ARRA

**Electrical Data***

| LED Count (x10) | System Watts 120-480V | Total Current | | | | | |
|---|---|---|---|---|---|---|---|
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 02 | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 12 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 14 | 158 | 1.32 | 0.77 | 0.68 | 0.62 | 0.47 | 0.35 |
| 525mA | | | | | | | |
| 02 | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 10 | 171 | 1.43 | 0.83 | 0.74 | 0.66 | 0.50 | 0.38 |
| 12 | 202 | 1.69 | 0.98 | 0.86 | 0.77 | 0.59 | 0.44 |
| 14 | 232 | 1.94 | 1.12 | 0.98 | 0.87 | 0.68 | 0.50 |
| 700mA | | | | | | | |
| 02 | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

* Electrical data at 25˚C (77˚F)

**Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]**

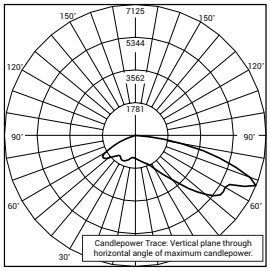
| Ambient | Initial LMF | 25K hr Projected[2] LMF | 50K hr Projected[2] LMF | 75K hr Calculated[3] LMF | 100K hr Calculated[3] LMF |
|---|---|---|---|---|---|
| 5˚C (41˚F) | 1.04 | 0.99 | 0.97 | 0.95 | 0.93 |
| 10˚C (50˚F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 15˚C (59˚F) | 1.02 | 0.97 | 0.95 | 0.93 | 0.91 |
| 20˚C (68˚F) | 1.01 | 0.96 | 0.94 | 0.92 | 0.90 |
| 25˚C (77˚F) | 1.00 | 0.95 | 0.93 | 0.91 | 0.89 |

[1] Lumen maintenance values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

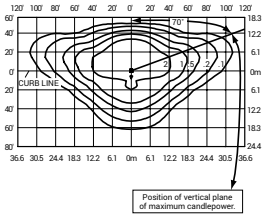
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**2M**




**CSA Test Report #**: 6371
ARE-EDG-2M-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 10,985




ARE-EDG-2M-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 17,710
Initial FC at grade

| Type II Medium Distribution | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G1 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B2 U0 G2 | 10,947 | B2 U0 G2 |
| 12 | 12,650 | B2 U0 G2 | 13,137 | B3 U0 G3 |
| 14 | 14,665 | B3 U0 G3 | 15,229 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G1 | 6,216 | B2 U0 G1 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B2 U0 G2 | 12,290 | B2 U0 G2 |
| 10 | 14,759 | B3 U0 G3 | 15,326 | B3 U0 G3 |
| 12 | 17,710 | B3 U0 G3 | 18,391 | B3 U0 G3 |
| 14 | 20,531 | B3 U0 G3 | 21,321 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B2 U0 G2 | 11,259 | B2 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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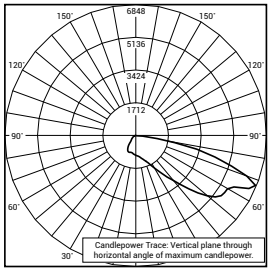
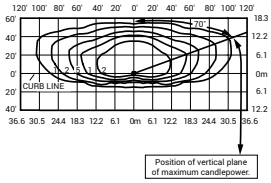
### 2MB




**CSA Test Report #**: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 7,953




ARE-EDG-2MB-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 13,340
Initial FC at grade

| Type II Medium Distribution w/BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B0 U0 G1 | 3,345 | B0 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G1 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 14 | 11,046 | B1 U0 G2 | 11,471 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 10 | 11,117 | B1 U0 G2 | 11,544 | B1 U0 G2 |
| 12 | 13,340 | B1 U0 G2 | 13,853 | B1 U0 G2 |
| 14 | 15,465 | B2 U0 G2 | 16,060 | B2 U0 G3 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G1 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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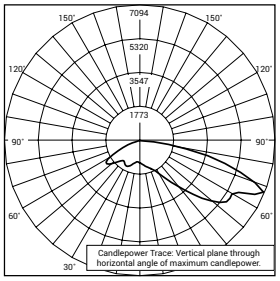
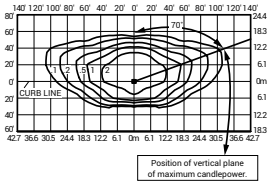
**2MP**




**CSA Test Report #**: 6361
ARE-EDG-2MP-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 9,912




ARE-EDG-2MP-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 15,640
Initial FC at grade

| Type II Medium Distribution w/Partial BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,888 | B1 U0 G1 | 1,961 | B1 U0 G1 |
| 04 | 3,776 | B1 U0 G1 | 3,921 | B1 U0 G1 |
| 06 | 5,599 | B1 U0 G1 | 5,815 | B1 U0 G1 |
| 08 | 7,466 | B2 U0 G2 | 7,753 | B2 U0 G2 |
| 10 | 9,310 | B2 U0 G2 | 9,668 | B2 U0 G2 |
| 12 | 11,172 | B2 U0 G2 | 11,601 | B2 U0 G2 |
| 14 | 12,951 | B2 U0 G2 | 13,449 | B2 U0 G2 |
| 525mA | | | | |
| 02 | 2,643 | B1 U0 G1 | 2,745 | B1 U0 G1 |
| 04 | 5,286 | B1 U0 G1 | 5,490 | B1 U0 G1 |
| 06 | 7,839 | B2 U0 G2 | 8,140 | B2 U0 G2 |
| 08 | 10,452 | B2 U0 G2 | 10,854 | B2 U0 G2 |
| 10 | 13,034 | B2 U0 G2 | 13,535 | B2 U0 G2 |
| 12 | 15,640 | B2 U0 G3 | 16,242 | B3 U0 G3 |
| 14 | 18,131 | B3 U0 G3 | 18,829 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,228 | B1 U0 G1 | 3,353 | B1 U0 G1 |
| 04 | 6,457 | B2 U0 G1 | 6,705 | B2 U0 G1 |
| 06 | 9,575 | B2 U0 G2 | 9,943 | B2 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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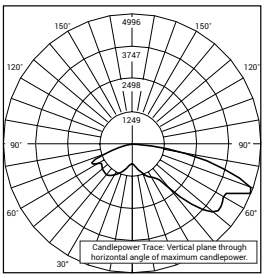
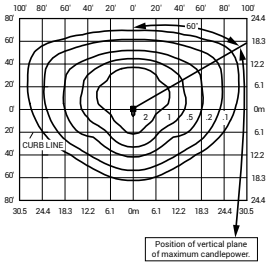
### 3M




**CSA Test Report #**: 6401
ARE-EDG-3M-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 10,657




ARE-EDG-3M-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 16,790
Initial FC at grade

| Type III Medium Distribution | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,027 | B1 U0 G1 | 2,105 | B1 U0 G1 |
| 04 | 4,054 | B1 U0 G1 | 4,209 | B1 U0 G1 |
| 06 | 6,011 | B2 U0 G2 | 6,242 | B2 U0 G2 |
| 08 | 8,015 | B2 U0 G2 | 8,323 | B2 U0 G2 |
| 10 | 9,994 | B3 U0 G3 | 10,379 | B3 U0 G3 |
| 12 | 11,993 | B3 U0 G3 | 12,454 | B3 U0 G3 |
| 14 | 13,903 | B3 U0 G3 | 14,438 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,837 | B1 U0 G1 | 2,947 | B1 U0 G1 |
| 04 | 5,675 | B2 U0 G2 | 5,893 | B2 U0 G2 |
| 06 | 8,415 | B2 U0 G2 | 8,739 | B2 U0 G2 |
| 08 | 11,220 | B3 U0 G3 | 11,652 | B3 U0 G3 |
| 10 | 13,992 | B3 U0 G3 | 14,530 | B3 U0 G3 |
| 12 | 16,790 | B3 U0 G3 | 17,436 | B3 U0 G3 |
| 14 | 19,465 | B3 U0 G3 | 20,213 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,466 | B1 U0 G1 | 3,599 | B1 U0 G1 |
| 04 | 6,932 | B2 U0 G2 | 7,198 | B2 U0 G2 |
| 06 | 10,279 | B3 U0 G3 | 10,674 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F)
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## Photometry

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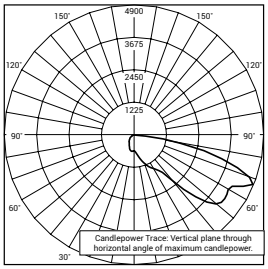
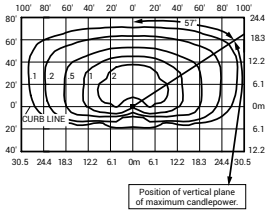
**3MB**




**CSA Test Report #**: 6448
ARE-EDG-3MB-**-06-E-UL-700
**Initial Delivered Lumens**: 7,740




ARE-EDG-3MB-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 12,420
Initial FC at grade

| Type III Medium Distribution w/BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,499 | B1 U0 G1 | 1,557 | B1 U0 G1 |
| 04 | 2,999 | B1 U0 G1 | 3,114 | B1 U0 G1 |
| 06 | 4,446 | B1 U0 G1 | 4,617 | B1 U0 G1 |
| 08 | 5,929 | B1 U0 G2 | 6,157 | B1 U0 G2 |
| 10 | 7,393 | B1 U0 G2 | 7,677 | B1 U0 G2 |
| 12 | 8,872 | B1 U0 G2 | 9,213 | B1 U0 G2 |
| 14 | 10,285 | B1 U0 G2 | 10,680 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,099 | B1 U0 G1 | 2,180 | B1 U0 G1 |
| 04 | 4,198 | B1 U0 G1 | 4,359 | B1 U0 G1 |
| 06 | 6,225 | B1 U0 G2 | 6,464 | B1 U0 G2 |
| 08 | 8,300 | B1 U0 G2 | 8,619 | B1 U0 G2 |
| 10 | 10,350 | B1 U0 G2 | 10,748 | B1 U0 G2 |
| 12 | 12,420 | B1 U0 G3 | 12,898 | B1 U0 G3 |
| 14 | 14,398 | B1 U0 G3 | 14,952 | B2 U0 G3 |
| 700mA | | | | |
| 02 | 2,564 | B1 U0 G1 | 2,662 | B1 U0 G1 |
| 04 | 5,127 | B1 U0 G2 | 5,325 | B1 U0 G2 |
| 06 | 7,603 | B1 U0 G2 | 7,896 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
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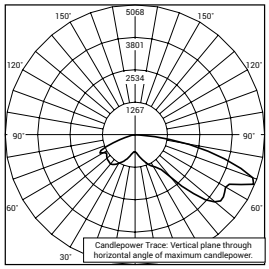
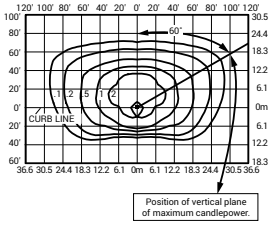
### 3MP




**CSA Test Report #**: 6385
ARE-EDG-3MP-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 9,619




ARE-EDG-3MP-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 14,720
Initial FC at grade

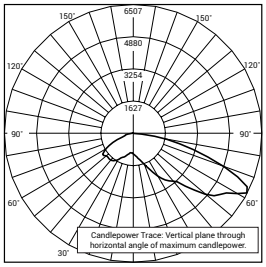
| Type III Medium Distribution w/Partial BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,777 | B1 U0 G1 | 1,845 | B1 U0 G1 |
| 04 | 3,554 | B1 U0 G1 | 3,690 | B1 U0 G1 |
| 06 | 5,270 | B1 U0 G2 | 5,473 | B1 U0 G2 |
| 08 | 7,026 | B2 U0 G2 | 7,297 | B2 U0 G2 |
| 10 | 8,762 | B2 U0 G2 | 9,099 | B2 U0 G2 |
| 12 | 10,514 | B2 U0 G3 | 10,919 | B2 U0 G3 |
| 14 | 12,189 | B2 U0 G3 | 12,658 | B2 U0 G3 |
| 525mA | | | | |
| 02 | 2,488 | B1 U0 G1 | 2,583 | B1 U0 G1 |
| 04 | 4,975 | B1 U0 G2 | 5,167 | B1 U0 G2 |
| 06 | 7,378 | B2 U0 G2 | 7,662 | B2 U0 G2 |
| 08 | 9,837 | B2 U0 G2 | 10,215 | B2 U0 G2 |
| 10 | 12,267 | B2 U0 G3 | 12,739 | B2 U0 G3 |
| 12 | 14,720 | B3 U0 G3 | 15,286 | B3 U0 G3 |
| 14 | 17,065 | B3 U0 G3 | 17,721 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,039 | B1 U0 G1 | 3,155 | B1 U0 G1 |
| 04 | 6,077 | B1 U0 G2 | 6,311 | B1 U0 G2 |
| 06 | 9,011 | B2 U0 G2 | 9,358 | B2 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

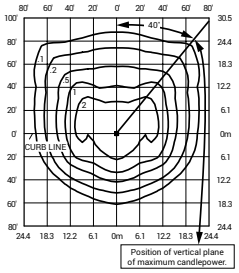
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**4M**




**CSA Test Report #**: 6438
ARE-EDG-4M-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 11,367




ARE-EDG-4M-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 17,710
Initial FC at grade

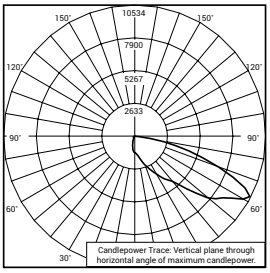
| Type IV Medium Distribution | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G2 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B2 U0 G2 | 10,947 | B2 U0 G2 |
| 12 | 12,650 | B3 U0 G3 | 13,137 | B3 U0 G3 |
| 14 | 14,665 | B3 U0 G3 | 15,229 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G1 | 6,216 | B2 U0 G2 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B2 U0 G2 | 12,290 | B3 U0 G3 |
| 10 | 14,759 | B3 U0 G3 | 15,326 | B3 U0 G3 |
| 12 | 17,710 | B3 U0 G3 | 18,391 | B3 U0 G3 |
| 14 | 20,531 | B3 U0 G3 | 21,321 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B2 U0 G2 | 11,259 | B2 U0 G2 |

* Initial delivered lumens at 25˚C (77˚F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

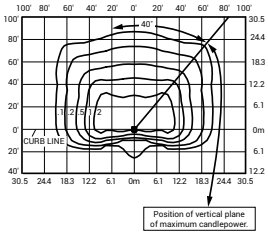
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**4MB**




**CSA Test Report #**: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
**Initial Delivered Lumens**: 13,155




ARE-EDG-4MB-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 13,340
Initial FC at grade

| Type IV Medium Distribution w/BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B1 U0 G1 | 3,345 | B1 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G2 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 14 | 11,046 | B1 U0 G2 | 11,471 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 10 | 11,117 | B1 U0 G2 | 11,544 | B1 U0 G2 |
| 12 | 13,340 | B1 U0 G2 | 13,853 | B2 U0 G2 |
| 14 | 15,465 | B2 U0 G2 | 16,060 | B2 U0 G3 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G2 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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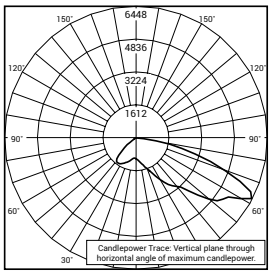
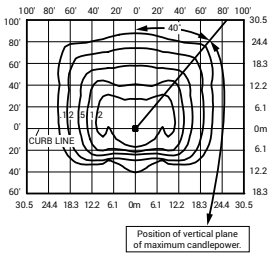
**4MP**




**CSA Test Report #**: 6417
ARE-EDG-4MP-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 9,989




ARE-EDG-4MP-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 15,640
Initial FC at grade

| Type IV Medium Distribution w/Partial BLS | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,888 | B1 U0 G1 | 1,961 | B1 U0 G1 |
| 04 | 3,776 | B1 U0 G1 | 3,921 | B1 U0 G1 |
| 06 | 5,599 | B1 U0 G1 | 5,815 | B1 U0 G1 |
| 08 | 7,466 | B2 U0 G2 | 7,753 | B2 U0 G2 |
| 10 | 9,310 | B2 U0 G2 | 9,668 | B2 U0 G2 |
| 12 | 11,172 | B2 U0 G2 | 11,601 | B2 U0 G2 |
| 14 | 12,951 | B2 U0 G2 | 13,449 | B2 U0 G2 |
| 525mA | | | | |
| 02 | 2,643 | B1 U0 G1 | 2,745 | B1 U0 G1 |
| 04 | 5,286 | B1 U0 G1 | 5,490 | B1 U0 G1 |
| 06 | 7,839 | B2 U0 G2 | 8,140 | B2 U0 G2 |
| 08 | 10,452 | B2 U0 G2 | 10,854 | B2 U0 G2 |
| 10 | 13,034 | B2 U0 G2 | 13,535 | B2 U0 G2 |
| 12 | 15,640 | B3 U0 G2 | 16,242 | B3 U0 G2 |
| 14 | 18,131 | B3 U0 G2 | 18,829 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,228 | B1 U0 G1 | 3,353 | B1 U0 G1 |
| 04 | 6,457 | B2 U0 G1 | 6,705 | B2 U0 G1 |
| 06 | 9,575 | B2 U0 G2 | 9,943 | B2 U0 G2 |

* Initial delivered lumens at 25˚C (77˚F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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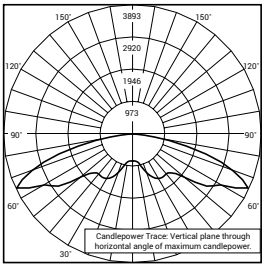
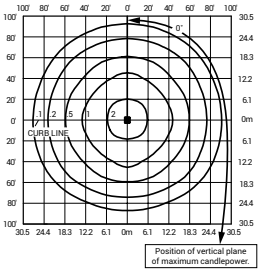
**5M**




**CSA Test Report #**: 6416
ARE-EDG-5M-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 12,022




ARE-EDG-5M-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 18,630
Initial FC at grade

| Type V Medium Distribution | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,249 | B2 U0 G1 | 2,335 | B2 U0 G1 |
| 04 | 4,498 | B3 U0 G1 | 4,671 | B3 U0 G1 |
| 06 | 6,670 | B3 U0 G2 | 6,926 | B3 U0 G2 |
| 08 | 8,893 | B3 U0 G2 | 9,235 | B3 U0 G2 |
| 10 | 11,089 | B4 U0 G2 | 11,516 | B4 U0 G2 |
| 12 | 13,307 | B4 U0 G3 | 13,819 | B4 U0 G3 |
| 14 | 15,427 | B4 U0 G3 | 16,020 | B4 U0 G3 |
| 525mA | | | | |
| 02 | 3,148 | B2 U0 G1 | 3,270 | B2 U0 G1 |
| 04 | 6,297 | B3 U0 G2 | 6,539 | B3 U0 G2 |
| 06 | 9,338 | B3 U0 G2 | 9,697 | B3 U0 G2 |
| 08 | 12,450 | B4 U0 G3 | 12,929 | B4 U0 G3 |
| 10 | 15,525 | B4 U0 G3 | 16,122 | B4 U0 G3 |
| 12 | 18,630 | B4 U0 G3 | 19,347 | B4 U0 G3 |
| 14 | 21,598 | B5 U0 G3 | 22,428 | B5 U0 G3 |
| 700mA | | | | |
| 02 | 3,846 | B2 U0 G1 | 3,994 | B2 U0 G1 |
| 04 | 7,691 | B3 U0 G2 | 7,987 | B3 U0 G2 |
| 06 | 11,405 | B4 U0 G2 | 11,844 | B4 U0 G3 |

* Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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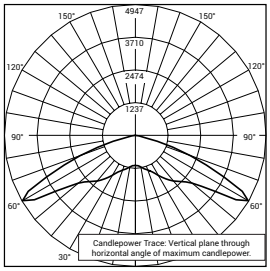
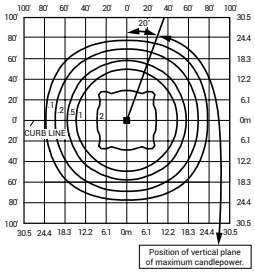
**5S**




**CSA Test Report #**: 6362
ARE-EDG-5S-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 12,798




ARE-EDG-5S-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 20,700
Initial FC at grade

| Type V Short Distribution | | | | |
|---|---|---|---|---|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,499 | B1 U0 G0 | 2,595 | B1 U0 G1 |
| 04 | 4,998 | B2 U0 G1 | 5,190 | B2 U0 G1 |
| 06 | 7,411 | B3 U0 G1 | 7,696 | B3 U0 G1 |
| 08 | 9,881 | B3 U0 G2 | 10,261 | B3 U0 G2 |
| 10 | 12,322 | B3 U0 G2 | 12,796 | B3 U0 G2 |
| 12 | 14,786 | B4 U0 G2 | 15,355 | B4 U0 G2 |
| 14 | 17,141 | B4 U0 G2 | 17,800 | B4 U0 G2 |
| 525mA | | | | |
| 02 | 3,498 | B2 U0 G1 | 3,633 | B2 U0 G1 |
| 04 | 6,997 | B3 U0 G1 | 7,266 | B3 U0 G1 |
| 06 | 10,375 | B3 U0 G2 | 10,774 | B3 U0 G2 |
| 08 | 13,833 | B4 U0 G2 | 14,365 | B4 U0 G2 |
| 10 | 17,250 | B4 U0 G2 | 17,914 | B4 U0 G2 |
| 12 | 20,700 | B4 U0 G2 | 21,496 | B4 U0 G2 |
| 14 | 23,997 | B4 U0 G2 | 24,920 | B4 U0 G2 |
| 700mA | | | | |
| 02 | 4,273 | B2 U0 G1 | 4,437 | B2 U0 G1 |
| 04 | 8,546 | B3 U0 G1 | 8,874 | B3 U0 G1 |
| 06 | 12,672 | B3 U0 G2 | 13,160 | B3 U0 G2 |

* Initial delivered lumens at 25˚C (77˚F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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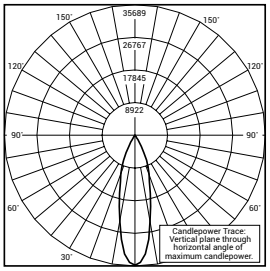
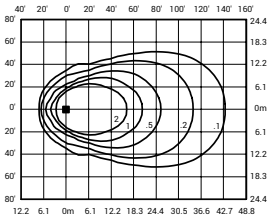
**25˚**




**RESTL Test Report #**: 2014-0006
FLD-EDG-25-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 12,924




FLD-EDG-25-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G., 60˚ Tilt
**Initial Delivered Lumens:** 21,160
Initial FC at grade

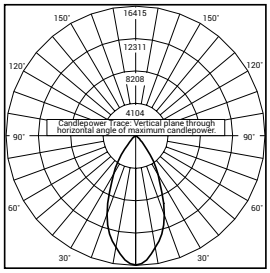
| **25˚ Flood Distribution** | | |
|---|---|---|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 02 | 2,554 | 2,653 |
| 04 | 5,109 | 5,305 |
| 06 | 7,575 | 7,867 |
| 08 | 10,101 | 10,489 |
| 10 | 12,595 | 13,080 |
| 12 | 15,115 | 15,696 |
| 14 | 17,522 | 18,196 |
| 525mA | | |
| 02 | 3,576 | 3,714 |
| 04 | 7,152 | 7,427 |
| 06 | 10,606 | 11,013 |
| 08 | 14,141 | 14,685 |
| 10 | 17,634 | 18,312 |
| 12 | 21,160 | 21,974 |
| 14 | 24,531 | 25,474 |
| 700mA | | |
| 02 | 4,368 | 4,536 |
| 04 | 8,736 | 9,072 |
| 06 | 12,954 | 13,452 |

* Initial delivered lumens at 25˚C (77˚F)

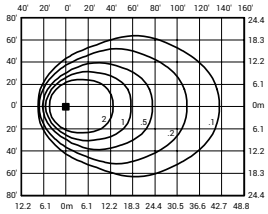
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**40˚**




**ITL Test Report #**: 79679
CAN-EDG-40-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 12,889




FLD-EDG-40-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G., 60˚ Tilt
**Initial Delivered Lumens:** 20,700
Initial FC at grade

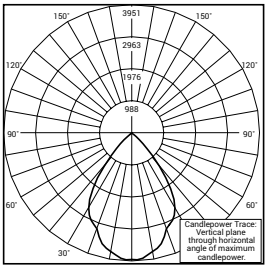
| 40˚ Flood Distribution | | |
|---|---|---|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 02 | 2,499 | 2,595 |
| 04 | 4,998 | 5,190 |
| 06 | 7,411 | 7,696 |
| 08 | 9,881 | 10,261 |
| 10 | 12,322 | 12,796 |
| 12 | 14,786 | 15,355 |
| 14 | 17,141 | 17,800 |
| 525mA | | |
| 02 | 3,498 | 3,633 |
| 04 | 6,997 | 7,266 |
| 06 | 10,375 | 10,774 |
| 08 | 13,833 | 14,365 |
| 10 | 17,250 | 17,914 |
| 12 | 20,700 | 21,496 |
| 14 | 23,997 | 24,920 |
| 700mA | | |
| 02 | 4,273 | 4,437 |
| 04 | 8,546 | 8,874 |
| 06 | 12,672 | 13,160 |

* Initial delivered lumens at 25˚C (77˚F)

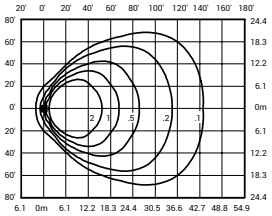
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**70˚**




**RESTL Test Report #**: 2014-0007
FLD-EDG-70-**-04-E-UL-350-40K
**Initial Delivered Lumens**: 4,734




FLD-EDG-70-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G., 60˚ Tilt
**Initial Delivered Lumens:** 18,860
Initial FC at grade

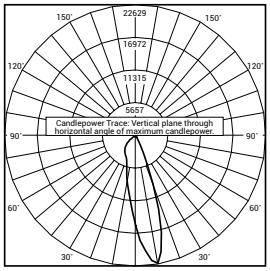
| **70˚ Flood Distribution** | | |
|---|---|---|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 02 | 2,277 | 2,364 |
| 04 | 4,553 | 4,728 |
| 06 | 6,752 | 7,012 |
| 08 | 9,003 | 9,349 |
| 10 | 11,226 | 11,658 |
| 12 | 13,472 | 13,990 |
| 14 | 15,617 | 16,218 |
| 525mA | | |
| 02 | 3,187 | 3,310 |
| 04 | 6,375 | 6,620 |
| 06 | 9,453 | 9,816 |
| 08 | 12,604 | 13,088 |
| 10 | 15,717 | 16,321 |
| 12 | 18,860 | 19,586 |
| 14 | 21,864 | 22,705 |
| 700mA | | |
| 02 | 3,893 | 4,043 |
| 04 | 7,786 | 8,086 |
| 06 | 11,546 | 11,990 |

* Initial delivered lumens at 25˚C (77˚F)

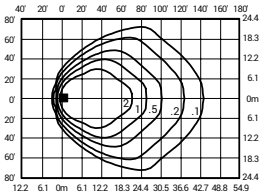
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**SN**




**RESTL Test Report #**: 2014-0013
FLD-EDG-SN-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 11,885




FLD-EDG-SN-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 19,090
Initial FC at grade

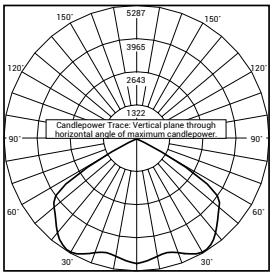
| SN Flood Distribution | | |
|---|---|---|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 02 | 2,304 | 2,393 |
| 04 | 4,609 | 4,786 |
| 06 | 6,834 | 7,097 |
| 08 | 9,112 | 9,463 |
| 10 | 11,363 | 11,800 |
| 12 | 13,636 | 14,160 |
| 14 | 15,808 | 16,416 |
| 525mA | | |
| 02 | 3,226 | 3,350 |
| 04 | 6,452 | 6,701 |
| 06 | 9,568 | 9,936 |
| 08 | 12,757 | 13,248 |
| 10 | 15,909 | 16,520 |
| 12 | 19,090 | 19,825 |
| 14 | 22,131 | 22,982 |
| 700mA | | |
| 02 | 3,941 | 4,092 |
| 04 | 7,881 | 8,184 |
| 06 | 11,687 | 12,136 |

* Initial delivered lumens at 25°C (77°F)

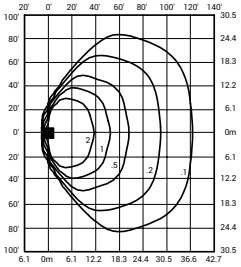
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

**N6**




**RESTL Test Report #**: 2014-0014
FLD-EDG-N6-**-06-E-UL-700-40K
**Initial Delivered Lumens**: 13,253




FLD-EDG-N6-**-12-E-UL-525-40K
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 21,160
Initial FC at grade

| NEMA® 6 Flood Distribution | | |
|---|---|---|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 02 | 2,554 | 2,653 |
| 04 | 5,109 | 5,305 |
| 06 | 7,575 | 7,867 |
| 08 | 10,101 | 10,489 |
| 10 | 12,595 | 13,080 |
| 12 | 15,115 | 15,696 |
| 14 | 17,522 | 18,196 |
| 525mA | | |
| 02 | 3,576 | 3,714 |
| 04 | 7,152 | 7,427 |
| 06 | 10,606 | 11,013 |
| 08 | 14,141 | 14,685 |
| 10 | 17,634 | 18,312 |
| 12 | 21,160 | 21,974 |
| 14 | 24,531 | 25,474 |
| 700mA | | |
| 02 | 4,368 | 4,536 |
| 04 | 8,736 | 9,072 |
| 06 | 12,954 | 13,452 |

* Initial delivered lumens at 25°C (77°F)

## Luminaire EPA

| Fixed Arm Mount – ARE-EDG-DA | | | | | | |
|---|---|---|---|---|---|---|
| LED Count (x10) | Single | 2 @ 90˚ | 2 @ 180˚ | 3 @ 90˚ | 3 @ 120˚ | 4 @ 90˚ |
| | | | | | | |
| 02 | 0.60 | 0.87 | 1.20 | 1.47 | 1.47 | 1.75 |
| 04 | 0.60 | 0.87 | 1.20 | 1.47 | 1.47 | 1.75 |
| 06 | 0.60 | 0.92 | 1.20 | 1.51 | 1.51 | 1.83 |
| 08 | 0.60 | 0.96<br>N/A with 3" or 4" poles | 1.20 | 1.55<br>N/A with 3" or 4" poles | 1.55 | 1.91<br>N/A with 3" or 4" poles |
| 10 | 0.60 | 1.00<br>N/A with 3" or 4" poles | 1.20 | 1.60<br>N/A with 3" or 4" poles | 1.60 | 2.00<br>N/A with 3" or 4" poles |
| 12 | 0.60 | 1.04<br>N/A with 3" or 4" poles | 1.20 | 1.64<br>N/A with 3" or 4" poles | 1.64 | 2.08<br>N/A with 3" or 4" poles |
| 14 | 0.60 | 1.08<br>N/A with 3" or 4" poles | 1.20 | 1.68<br>N/A with 3" or 4" poles | 1.68 | 2.16<br>N/A with 3" or 4" poles |

| Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LED Count (x10) | Single | 2 @ 90˚ | 2 @ 180˚ | In-Line 2 @ 180˚ | 3 @ 90˚ | 3 @ 120˚ | In-Line 3 @ 180˚ | 4 @ 90˚ | In-Line 4 @ 180˚ |
| **Tenon Configuration** If used with Cree tenons, please add tenon EPA with Luminaire EPA | | | | | | | | | |
| | | | | | | | | | |
| | Vertical: PB-1A*; PT-1; PW-1A3**<br>Horizontal: By others | Vertical: PB-2A*; PB-2R2.375; PW-2A3**<br>Horizontal: PD-2A4(90); PT-2(90) | Vertical: PB-2A*; PB-2R2.375; PW-2A3**<br>Horizontal: PD-2A4(180); PT-2(180) | Vertical: PB-2A*; PB-2R2.375 | Vertical: PB-3A*; PB-3R2.375<br>Horizontal: PD-3A4(90); PT-3(90) | Vertical: PB-3A*; PB-3R2.375<br>Horizontal: PT-3(120) | Vertical: PB-3A*; PB-3R2.375 | Vertical: PB-4A*(90); PB-4R2.375<br>Horizontal: PD-4A4(90) PT-4(90) | Vertical: PB-4A*(180); PB-4R2.375 |
| **0˚ Tilt** | | | | | | | | | |
| 02 | 0.66 | 0.98 | 1.32 | 1.32 | 1.77 | 1.64 | 1.98 | 1.91 | 2.64 |
| 04 | 0.66 | 0.98 | 1.32 | 1.32 | 1.64 | 1.64 | 1.98 | 1.97 | 2.64 |
| 06 | 0.66 | 1.02 | 1.32 | 1.32 | 1.68 | 1.68 | 1.98 | 2.05 | 2.64 |
| 08 | 0.66 | 1.07 | 1.32 | 1.32 | 1.80 | 1.72 | 1.98 | 2.29 | 2.64 |
| 10 | 0.66 | 1.11 | 1.32 | 1.32 | 1.76 | 1.76 | 1.98 | 2.21 | 2.64 |
| 12 | 0.66 | 1.15 | 1.32 | 1.32 | 1.80 | 1.80 | 1.98 | 2.29 | 2.64 |
| 14 | 0.66 | 1.19 | 1.32 | 1.32 | 1.84 | 1.84 | 1.98 | 2.38 | 2.64 |
| **30˚ Tilt** | | | | | | | | | |
| 02 | 0.71 | 1.37 | 1.42 | 1.42 | 2.08 | 2.08 | 2.13 | 2.73 | 2.84 |
| 04 | 0.71 | 1.37 | 1.42 | 1.42 | 2.08 | 2.08 | 2.13 | 2.73 | 2.84 |
| 06 | 0.82 | 1.48 | 1.64 | 1.64 | 2.30 | 2.30 | 2.46 | 2.95 | 3.28 |
| 08 | 0.93 | 1.59 | 1.86 | 1.86 | 2.52 | 2.52 | 2.79 | 3.17 | 3.72 |
| 10 | 1.04 | 1.70 | 2.08 | 2.08 | 2.74 | 2.74 | 3.12 | 3.40 | 4.16 |
| 12 | 1.15 | 1.81 | 2.30 | 2.30 | 2.96 | 2.96 | 3.45 | 3.62 | 4.60 |
| 14 | 1.26 | 1.92 | 2.52 | 2.52 | 3.18 | 3.18 | 3.78 | 3.84 | 5.04 |

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

## Luminaire EPA

| **Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LED Count (x10) | Single | 2 @ 90˚ | 2 @ 180˚ | In-Line 2 @ 180˚ | 3 @ 90˚ | 3 @ 120˚ | In-Line 3 @ 180˚ | 4 @ 90˚ | In-Line 4 @ 180˚ |
| **Tenon Configuration** If used with Cree tenons, please add tenon EPA with Luminaire EPA | | | | | | | | | |
| | | | | | | | | | |
| | Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others | Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90) | Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180) | Vertical: PB-2A*; PB-2R2.375 | Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90) | Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120) | Vertical: PB-3A*; PB-3R2.375 | Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90) | Vertical: PB-4A*(180); PB-4R2.375 |
| **45˚ Tilt** | | | | | | | | | |
| 02 | 0.89 | 1.55 | 1.78 | 1.78 | 2.45 | 2.45 | 2.67 | 3.10 | 3.56 |
| 04 | 0.89 | 1.55 | 1.78 | 1.78 | 2.45 | 2.45 | 2.67 | 3.10 | 3.56 |
| 06 | 1.03 | 1.69 | 2.06 | 2.06 | 2.72 | 2.72 | 3.09 | 3.38 | 4.12 |
| 08 | 1.17 | 1.83 | 2.34 | 2.34 | 3.00 | 3.00 | 3.51 | 3.66 | 4.68 |
| 10 | 1.31 | 1.97 | 2.62 | 2.62 | 3.28 | 3.28 | 3.93 | 3.94 | 5.24 |
| 12 | 1.45 | 2.11 | 2.90 | 2.90 | 3.56 | 3.56 | 4.35 | 4.21 | 5.80 |
| 14 | 1.59 | 2.25 | 3.18 | 3.18 | 3.83 | 3.83 | 4.77 | 4.49 | 6.36 |
| **60˚ Tilt** | | | | | | | | | |
| 02 | 1.20 | 1.86 | 2.40 | 2.40 | 3.06 | 3.06 | 3.60 | 3.72 | 4.80 |
| 04 | 1.20 | 1.86 | 2.40 | 2.40 | 3.06 | 3.06 | 3.60 | 3.72 | 4.80 |
| 06 | 1.39 | 2.05 | 2.78 | 2.78 | 3.44 | 3.44 | 4.17 | 4.10 | 5.56 |
| 08 | 1.58 | 2.23 | 3.16 | 3.16 | 3.81 | 3.81 | 4.74 | 4.47 | 6.32 |
| 10 | 1.77 | 2.42 | 3.54 | 3.54 | 4.19 | 4.19 | 5.31 | 4.84 | 7.08 |
| 12 | 1.95 | 2.61 | 3.90 | 3.90 | 4.56 | 4.56 | 5.85 | 5.22 | 7.80 |
| 14 | 2.14 | 2.80 | 4.28 | 4.28 | 4.94 | 4.94 | 6.42 | 5.59 | 8.56 |
| **90˚ Tilt** | | | | | | | | | |
| 02 | 1.85 | 2.51 | 3.70 | 3.64 | 4.36 | 4.36 | 5.55 | 5.02 | 7.40 |
| 04 | 1.85 | 2.51 | 3.70 | 3.64 | 4.36 | 4.36 | 5.55 | 5.02 | 7.40 |
| 06 | 2.14 | 2.80 | 4.28 | 4.22 | 4.94 | 4.94 | 6.42 | 5.59 | 8.56 |
| 08 | 2.43 | 3.09 | 4.86 | 4.78 | 5.51 | 5.51 | 7.29 | 6.17 N/A with horizontal tenon | 9.72 |
| 10 | 2.71 | 3.37 | 5.42 | 5.34 | 6.08 | 6.08 | 8.13 | 6.74 N/A with horizontal tenon | 10.84 |
| 12 | 3.00 | 3.66 | 6.00 | 5.90 | 6.66 | 6.66 | 9.00 | 7.31 N/A with horizontal tenon | 12.00 |
| 14 | 3.29 | 3.95 N/A with PW-2A3** | 6.58 | 6.48 | 7.23 | 7.23 | 9.87 | 7.89 N/A with horizontal tenon | 13.16 |

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

## Tenon EPA

| Part Number | EPA |
|---|---|
| PB-1A* | None |
| PB-2A* | 0.82 |
| PB-3A* | 1.52 |
| PB-4A*(180) | 2.22 |
| PB-4A*(90) | 1.11 |
| PB-2R2.375 | 0.92 |
| PB-3R2.375 | 1.62 |
| PB-4R2.375 | 2.32 |
| PD Series Tenons | 0.09 |
| PT Series Tenons | 0.10 |
| PW-1A3** | 0.47 |
| PW-2A3** | 0.94 |
| WM-2 | 0.08 |
| WM-4 | 0.25 |
| WM-DM | None |

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation

** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

### Tenons and Brackets‡ (must specify color)

**Square Internal Mount Vertical Tenons (Steel)**
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

**Square Internal Mount Horizontal Tenons (Aluminum)**
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

**Wall Mount Brackets**
- Mounts to wall, roof or side of wood pole

WM-2 – Horizontal
WM-DM – Plate for DA mount
WM-4 – L-Shape for AA and SA mount

**Round External Mount Vertical Tenons (Steel)**
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

**Round External Mount Horizontal Tenons (Aluminum)**
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

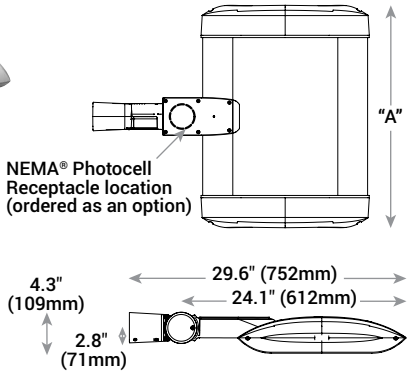
PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-4(90) – 90˚ Quad

**Mid-Pole Bracket**
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

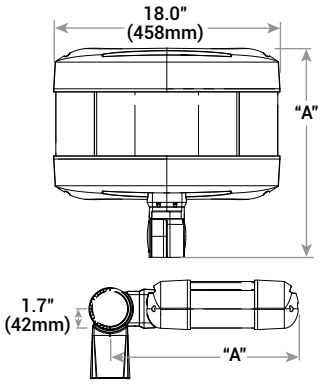
‡ Refer to the Bracket and Tenons spec sheet for more details

## AA Mount




| LED Count (x10) | Dim. "A" | Weight |
|---|---|---|
| 02 | 12.1" (306mm) | 21 lbs. (10kg) |
| 04 | 12.1" (306mm) | 24 lbs. (11kg) |
| 06 | 14.1" (357mm) | 27 lbs. (12kg) |
| 08 | 16.1" (408mm) | 28 lbs. (13kg) |
| 10 | 18.1" (459mm) | 32 lbs. (15kg) |
| 12 | 20.1" (510mm) | 34 lbs. (15kg) |
| 14 | 22.1" (560mm) | 37 lbs. (17kg) |

## SA Mount




| LED Count (x10) | Dim. "A" | Weight |
|---|---|---|
| 02 | 16.0" (406mm) | 25 lbs. (11kg) |
| 04 | 18.0" (457mm) | 26 lbs. (12kg) |
| 06 | 20.0" (508mm) | 28 lbs. (13kg) |

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**US: www.cree.com/lighting** T (800) 236-6800 F (262) 504-5415

# Brackets and Tenons

## Product Specifications

**FINISH**

- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, white, and platinum bronze are available

**LIMITED WARRANTY‡**

- 7 years on tenon/7 years on Colorfast DeltaGuard® finish

‡ See www.cree.com/lighting/products/warranty for warranty terms

## PB Series

**Square Internal Mount Vertical Steel Tenons (for use with Adjustable Arm & Horizontal/Vertical Tenon Mounts)**

The square base of the PB Series steel brackets is designed to be inserted into square, non-tapered steel or aluminum poles ranging in size from 3" (76mm) to 6" (152mm) square with a maximum wall thickness of 0.188" (5mm). Square PB tenons are supplied with end caps to enclose the wiring chamber. Tenon base secures to pole with four 5/16" (8mm) hex head stainless steel black oxide bolts. Vertical tenons measure 2-3/8" (60mm) O.D. x 3.75" (95mm) tall and are made of steel tubing. Luminaires mounted to these tenons can be adjusted both vertically and horizontally.

| PB | - | | | |
|---|---|---|---|---|
| **Product** | - | **Mounting Configurations** | **Pole Size (O.D.)** | **Color Options** |
| PB | - | **1A** Single<br>**2A** 180˚ Twin<br>**3A** 180˚ Triple<br>**4A(90)** 90˚ Quad<br>- Available for 4"-6" pole only<br>**4A(180)** 180˚ Quad<br>- Available for 4"-6" pole only | **3** 3" (76mm)<br>**4** 4" (102mm)<br>**5** 5" (127mm)<br>**6** 6" (152mm) | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

Single

180˚ Double

180˚ Triple

90˚ Quad

180˚ Quad

**Round External Mount Vertical Tenons (for use with Adjustable Arm & Horizontal/Vertical Tenon Mounts)**

The round base of the PB Series steel brackets is designed to mount over a steel or aluminum 2-3/8" (60mm) O.D. round pole or tenon. All are supplied with end caps to enclose the wiring chamber. Tenon base secures to pole with eight stainless steel allen head screws. Vertical tenons measure 2-3/8" (60mm) O.D. x 3.75" (95mm) tall and are made of steel tubing. Luminaires mounted to these tenons can be adjusted both vertically and horizontally.

| PB | - | | | |
|---|---|---|---|---|
| **Product** | - | **Mounting Configurations** | **Pole Size (O.D.)** | **Color Options** |
| PB | - | **2R** 180˚ Twin<br>**3R** 180˚ Triple<br>**4R** 180˚ Quad | **2.375** 2.375" (60mm)<br>- Consult factory for other pole sizes | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

180˚ Twin

180˚ Triple

180˚ Quad

## XA-TMDA8

**Direct Arm Pole Adaptor Bracket (for use with Horizontal Tenon Mount - LEDway® and XSP Luminaires)**

The die cast aluminum direct arm pole adaptor bracket mounts to square or round steel or aluminum poles ranging in size from 3" (76mm) to 6" (152mm). Mounting plate secures to pole with two 5/16" (8mm) hex head stainless steel black oxide bolts. Two 5/16" (8mm) hex head stainless steel black oxide bolts secure the adaptor bracket to the mounting plate. The horizontal tenon measures 2-3/8" (60mm) O.D. x 8.0" (203mm) long and is made of steel tubing.

| XA | - | TMDA8 | |
|---|---|---|---|
| **Product** | - | **Mount** | **Color Options** |
| XA | - | TMDA8 | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

# PT Series

**Round External Mount Horizontal Tenons (for use with Adjustable Arm Mount)**

The round base of the PT Series aluminum brackets is designed to mount over a steel or aluminum 2-3/8" (60mm) to 3" (76mm) O.D. round pole or tenon. Tenon base secures to pole with eight stainless steel allen head screws. Luminaires mounted to these tenons can only be adjusted vertically. The PT Series brackets can be mounted on a square pole, but require the use of the Single Vertical Tenon PB-1A. Not for use with the Cree Edge™ High Output Area/Flood luminaires.

| PT | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting Configurations** | **Color Options** |
| **PT** | **-** | **1** Single<br>**2(90)** 90˚ Twin<br>**2(180)** 180˚ Twin<br>**3(90)** 90˚ Triple<br>**3(120)** 120˚ Triple<br>**4(90)** 90˚ Quad | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

**Single** **90˚ Twin** **180˚ Twin** **90˚ Triple** **120˚ Triple** **90˚ Quad**

**Round External Mount Horizontal Tenons (for use with Horizontal Tenon Mount — LEDway® and XSP luminaires). Not for use with the Cree Edge™ High Output Area/Flood luminaires.**

The round base of the PT Series aluminum brackets is designed to mount over a steel or aluminum 2-3/8" (60mm) to 3" (76mm) O.D. round pole or tenon. Tenon base secures to pole with eight stainless steel allen head screws. The PT Series brackets can be mounted on a square pole, but require the use of the Single Vertical Tenon PB-1A.

| PT | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting Configurations** | **Color Options** |
| **PT** | **-** | **1H** Single<br>**2H(90)** 90˚ Twin<br>**2H(180)** 180˚ Twin<br>**3H(90)** 90˚ Triple<br>**4H(90)** 90˚ Quad | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

**Single** **90˚ Twin** **180˚ Twin** **90˚ Triple** **90˚ Quad**

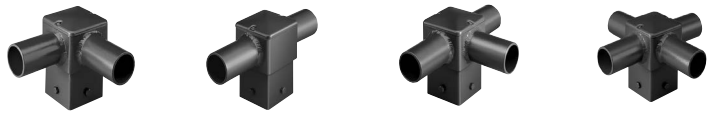
*Pole sold separately*

# PD Series

**Square Internal Mount Horizontal Tenons (for use with Adjustable Arm Mount).**

The square base of the PD Series cast aluminum brackets is designed to be inserted into square, non-tapered steel or aluminum 4" (102mm) poles with a maximum wall thickness of 0.188" (5mm). Square PD tenons are supplied with end caps to enclose the wiring chamber. Tenon base secures to pole with four 5/16" (8mm) hex head stainless steel black oxide bolts. Luminaires mounted to these tenons can only be adjusted vertically. Not for use with the Cree Edge™ High Output Area/Flood luminaires.

| PD | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting Configurations** | **Color Options** |
| **PD** | **-** | **2A4(90)** 90˚ Twin<br>**2A4(180)** 180˚ Twin<br>**3A4(90)** 90˚ Triple<br>**4A4(90)** 90˚ Quad | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |



**90˚ Twin** **180˚ Twin** **90˚ Triple** **90˚ Quad**

**Square Internal Mount Horizontal Tenons (for use with Horizontal Tenon Mount — LEDway® and XSP luminaires). Not for use with the Cree Edge™ High Output Area/Flood luminaires.**

The square base of the PD Series cast aluminum brackets is designed to be inserted into square, non-tapered steel or aluminum 4" (102mm) poles with a maximum wall thickness of 0.188" (5mm). Square PD tenons are supplied with end caps to enclose the wiring chamber. Tenon base secures to pole with four 5/16" (8mm) hex head stainless steel black oxide bolts. Luminaires mounted to these tenons can only be adjusted vertically.

| PD | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting Configurations** | **Color Options** |
| **PD** | **-** | **1H4** Single<br>**2H4(90)** 90˚ Twin<br>**2H4(180)** 180˚ Twin<br>**3H4(90)** 90˚ Triple<br>**4H4(90)** 90˚ Quad | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

**Single** **90˚ Twin** **180˚ Twin** **90˚ Triple** **90˚ Quad**

*Pole sold separately*

# PW Series

**Mid-Pole Mounting Bracket (for use with Adjustable Arm & Horizontal/Vertical Tenon Mounts)**

The PW Series steel bracket is designed to be mounted to the side of a square pole. Typically, the two brackets are mounted on either side to provide accent lighting. PW series brackets are supplied with end caps to enclose the wiring chamber. The bracket is secured to the pole with supplied 1/2" (13mm) hex head bolts. The 11" (279mm) long x 3" (76mm) square arm provides a 2-3/8" (60mm) O.D. tenon to mount a luminaire. Luminaires mounted to these tenons can be adjusted both vertically and horizontally.

| PW | - | | | |
|---|---|---|---|---|
| **Product** | **-** | **Mounting Configurations** | **Pole Size (O.D.)** | **Color Options** |
| **PW** | - | **1A3** Single<br>**2A3** Twin | **3** 3" (76mm)<br>**4** 4" (102mm)<br>**5** 5" (127mm)<br>**6** 6" (152mm) | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

Single

Twin

# WM Series

**Surface Bracket**

The WM-2 steel bracket is designed for mounting to ground, rooftop, wall or to the side of a wood pole. The bracket provides a 2-3/8" (60mm) O.D. tenon to mount a luminaire. The 0.25" (6mm) thick steel backplate provides wiring access. If surface wiring is required, consult factory. The use of 3/8" (9mm) diameter bolts to mount bracket to wall is recommended. Mounting holes are spaced 3-1/4" (83mm) apart. LEDway® and XSP Series luminaires use only with extended mount.

| WM | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting** | **Color Options** |
| **WM** | - | **2** Horizontal<br>**2L** Extended Horizontal | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

2, 2L (shown)

**L-Shaped Surface Bracket (for use with Adjustable Arm & Horizontal/Vertical Tenon Mounts)**

The WM-4 steel bracket is designed for mounting to a wall or to the side of a wood pole. The bracket provides a 2-3/8" (60mm) O.D. elbow tenon to mount a luminaire. The 0.25" (6mm) thick steel backplate provides wiring access. If surface wiring is required, consult factory. For mounting the bracket to the wall, use only 3/8" (9mm) diameter bolts. Mounting holes are spaced 3-1/4" (83mm) apart.

| WM | - | | |
|---|---|---|---|
| **Product** | **-** | **Mounting** | **Color Options** |
| **WM** | - | **4** L-shape<br>**4L** Extended L-shape | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

4, 4L (shown)

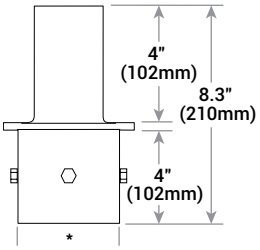
**Direct Mount Bracket (for use with Cree Edge™ High Output Area/Flood luminaire HV Mount)**

The EHO-UNV bracket is designed for mounting to a minimum 4" (102mm) round or square; aluminum or steel pole or can be surface-mounted directly to a vertical or horizontal surface. Bracket includes die cast aluminum fitter and steel mounting plate. Square mounting plate bolts are supplied for pole mounting. For surface mounting, use only Grade 5 or higher bolts.

| EHO | - | UNV | |
|---|---|---|---|
| **Product** | **-** | **Mounting** | **Color Options** |
| **EHO** | - | **UNV** | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**PB** Platinum Bronze<br>**WH** White |

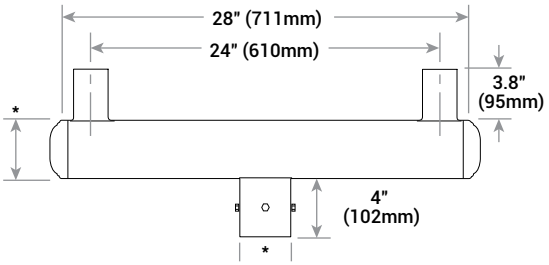
## PB Series

**PB-1A***



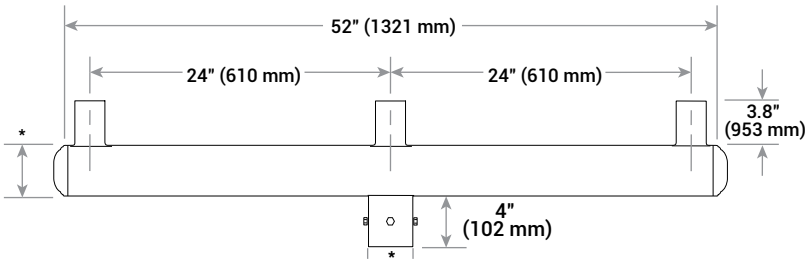

* 3" (76mm), 3.5" (89mm), 4" (102mm), 4.5" (114mm), or 5" (127mm) depending on pole size

**PB-2A***



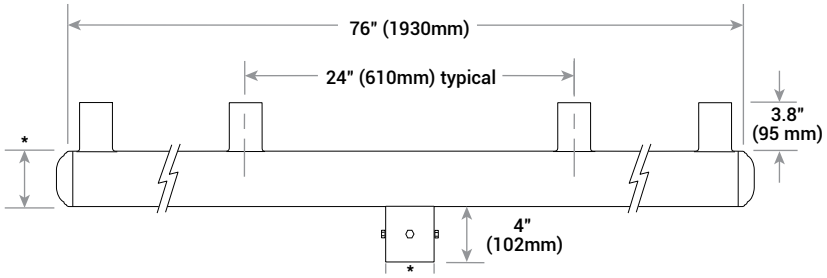

* 3" (76 mm), 4" (102 mm), 5" (127 mm) or 6" (152 mm) depending on pole size

**PB-3A***



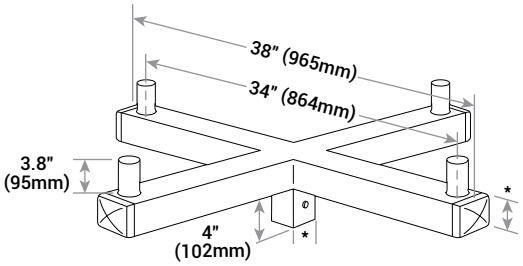

* 3" (76mm), 4" (102mm), 5" (127mm) or 6" (152mm) depending on pole size

**PB-4A*(180)**




* 4" (102mm), 5" (127mm) or 6" (152mm) depending on pole size

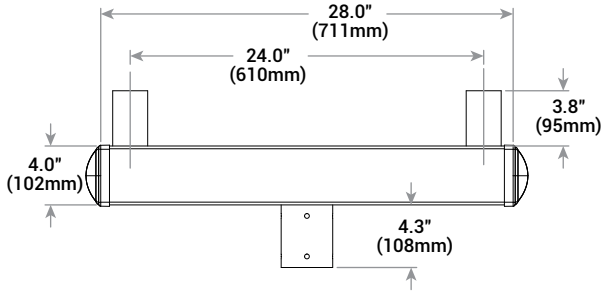
**PB-4A*(90)**



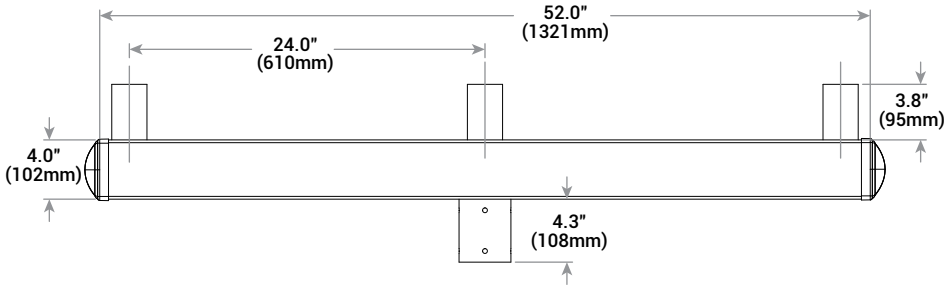

* 4" (102mm), 5" (127mm), or 6" (152mm) depending on pole size

## PB Series

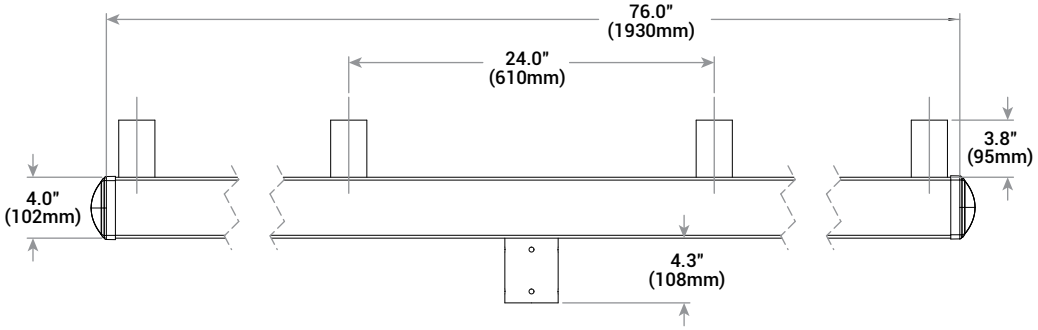
### PB-2R2.375




### PB-3R2.375



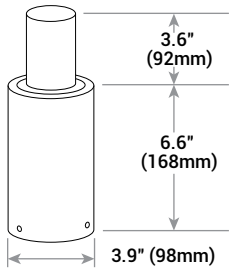

### PB-4R2.375



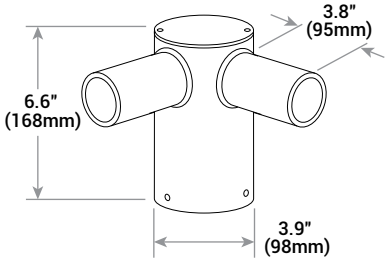

### XA-TMDA8

## PT Series

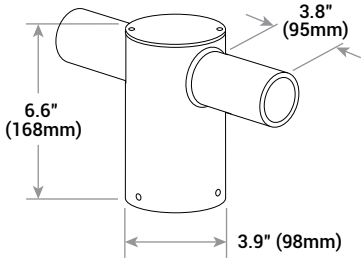
**PT-1**



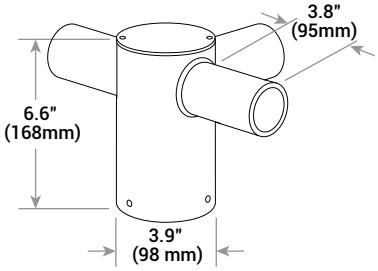

**PT-2(90)**



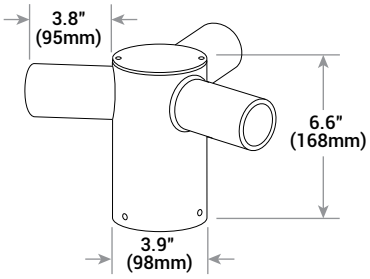

**PT-2(180)**



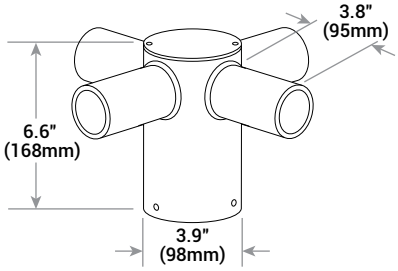

**PT-3(90)**



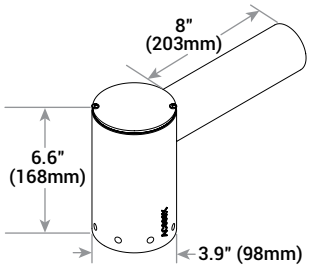

**PT-3(120)**



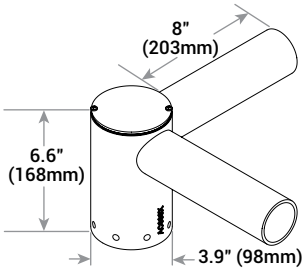

**PT-4(90)**



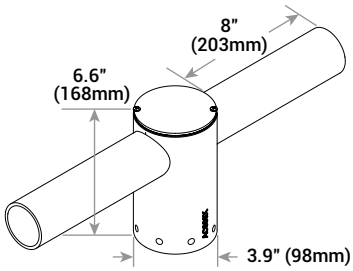

**PT-1H**



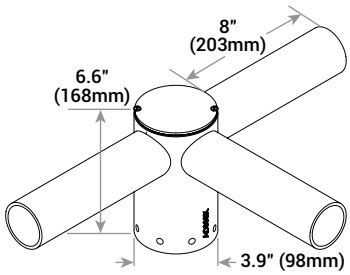

**PT-2H(90)**



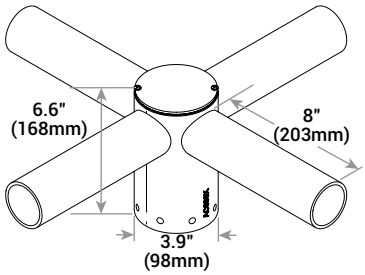

**PT-2H(180)**




**PT-3H(90)**

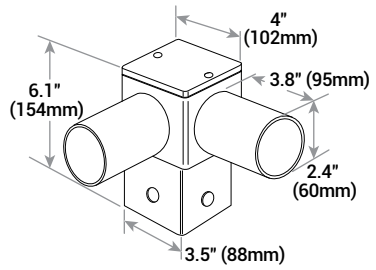



**PT-4H(90)**

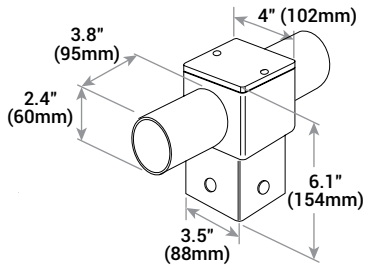


## PD Series

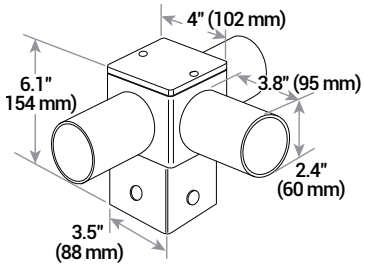
**PD-2A4(90)**



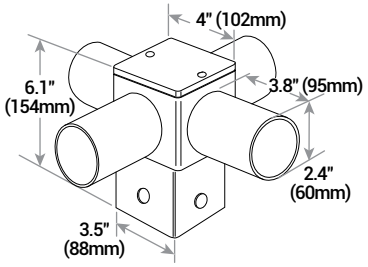

**PD-2A4(180)**



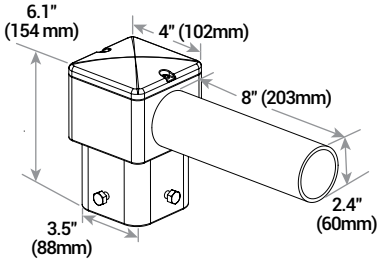

**PD-3A4(90)**



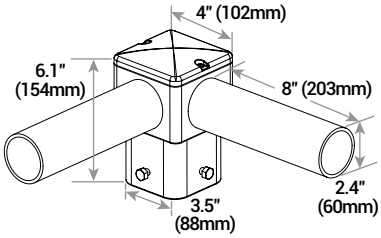

**PD-4A4(90)**



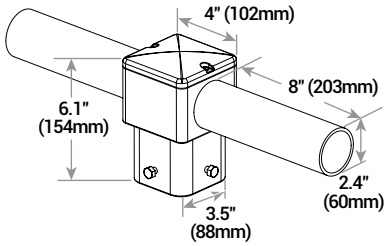

**PD-1H4**



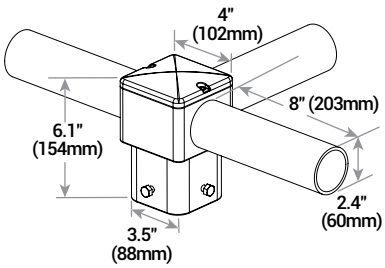

**PD-2H4(90)**



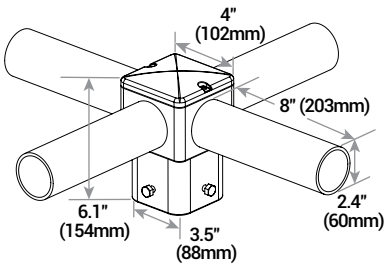

**PD-2H4(180)**




**PD-3H4(90)**

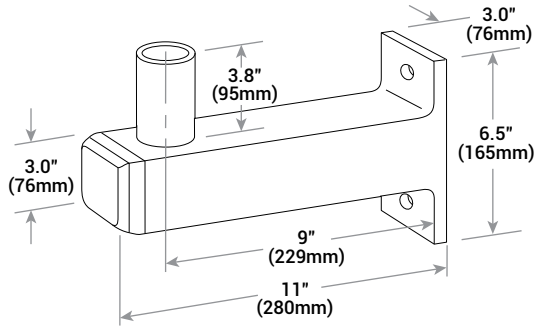



**PD-4H4(90)**



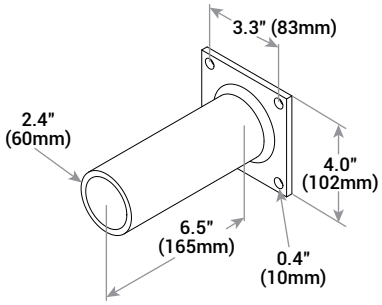
## PW Series

### PW-1A3, PW-2A3

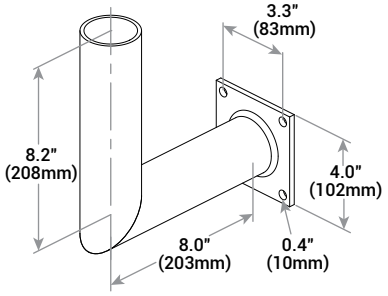



## WM Series

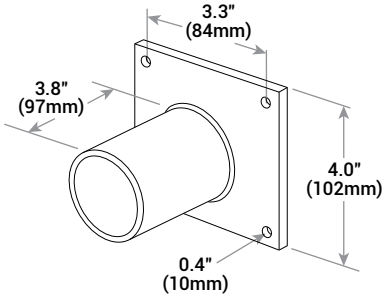
### WM-2L



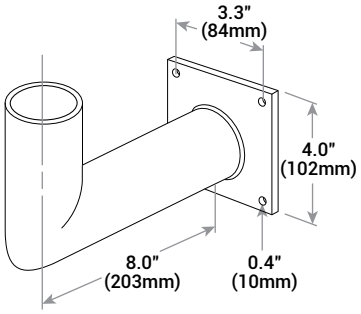

### WM-4L




### WM-2

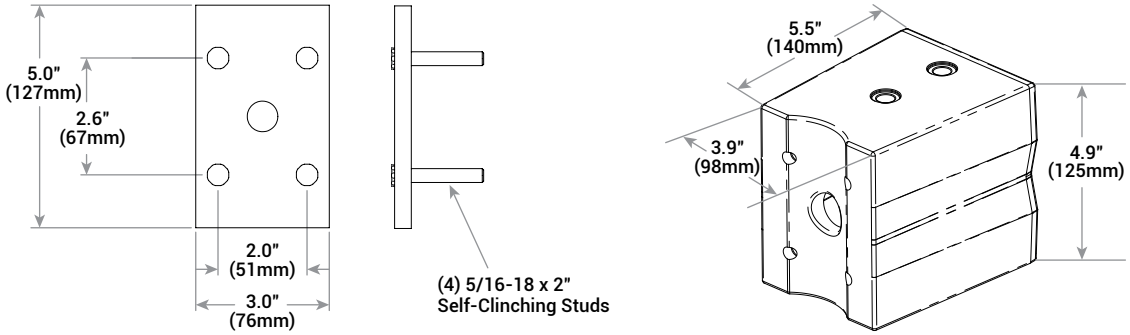



### WM-4



## Direct Mount Bracket

**EHO-UNV**




## Tenon EPA

| Part Number | EPA |
|---|---|
| PB-1A* | None |
| PB-2A* | 0.82 |
| PB-3A* | 1.52 |
| PB-4A*(180) | 2.22 |
| PB-4A*(90) | 1.11 |
| PB-2R2.375 | 0.92 |
| PB-3R2.375 | 1.62 |
| PB-4R2.375 | 2.32 |
| PD Series Tenons | 0.09 |
| PT Series Tenons | 0.10 |
| PW-1A3** | 0.47 |
| PW-2A3** | 0.94 |
| WM-2 | 0.08 |
| WM-2L | 0.13 |
| WM-4 | 0.25 |
| WM-4L | 0.32 |

* Specify pole size: 3 (3"), 4 (4"), 5 (5") or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5") or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5") or 6 (6")

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**US: www.cree.com/lighting** T (800) 236-6800 F (262) 504-5415 **Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507

# OSQ Series

OSQ™ LED Area/Flood Luminaire – Medium

## Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'A' and 'B' Input power designators are a suitable upgrade for HID applications up to 250 Watt. 'J' and 'K' Input power designators are a suitable upgrade for HID applications up to 400 Watt.

**Applications:** Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

## Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

**Initial Delivered Lumens:** Up to 17,191

**Efficacy:** Up to 136 LPW

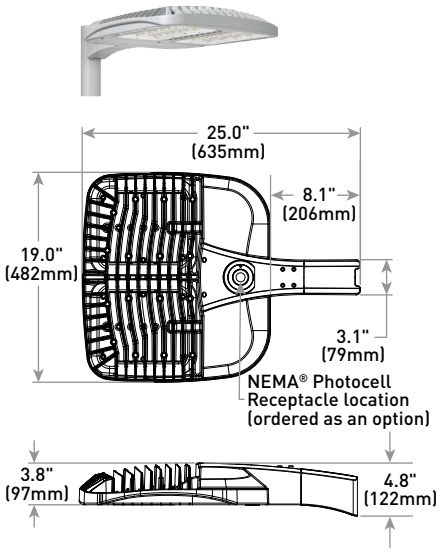
**CRI:** Minimum 70 CRI (4000K & 5700K; 3000K asymmetric optics); 80 CRI (3000K symmetric optics)

**CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

**Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See http://lighting.cree.com/warranty for warranty terms

## DA Mount




| Weight |
|---|
| 26.5 lbs. (12kg) |

## Accessories

| Field-Installed | |
|---|---|
| **Backlight Shield**<br>OSQ-BLSMF<br>– Front facing optics<br>OSQ-BLSMR<br>– Rotated optics | **Hand-Held Remote**<br>XA-SENSREM<br>- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required |

## Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AASV + **Luminaire:** OSQ-A-NM-2ME-A-40K-UL-SV

| Mount (Luminaire must be ordered separately) | | | |
|---|---|---|---|
| **OSQ-** | | | |
| **OSQ-AA** Adjustable Arm<br>**OSQ-DA** Direct Arm | **Color Options:** | **SV** Silver<br>**BK** Black | **BZ** Bronze<br>**WH** White |

**Luminaire (Mount must be ordered separately)**

| OSQ | A | NM | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Product** | **Version** | **Mounting** | **Optic** | **Input Power Designator** | **CCT** | **Voltage** | **Color Options** | **Options** |
| **OSQ** | **A** | **NM**<br>No Mount | **Asymmetric**<br>**2ME*** Type II Medium<br>**4ME*** Type IV Medium<br>**3ME*** Type III Medium<br>**Symmetric**<br>**5ME** Type V Medium<br>**5SH** Type V Short<br>**WSN** Wide Sign<br>**15D** 15° Flood<br>**25D** 25° Flood<br>**40D** 40° Flood<br>**60D** 60° Flood | **A** 112W<br>**J** 168W<br>**B** 86W<br>**K** 130W | **30K** 3000K<br>**40K** 4000K<br>**57K** 5700K | **UL** Universal 120-277V<br>**UH** Universal 347-480V | **BK** Black<br>**BZ** Bronze<br>**SV** Silver<br>**WH** White | **DIM 0-10V Dimming**<br>- Control by others<br>- Refer to Dimming spec sheet for details<br>- Can't exceed wattage of specified input power designator<br>**F Fuse**<br>- When code dictates fusing, use time delay fuse<br>**ML Multi-Level**<br>- Refer to ML spec sheet for details<br>- High: 100%, Low: 30%<br>- Available with UL voltage only<br>- Intended for downlight applications at 0° tilt<br>**PML Programmable Multi-Level, 20-40' Mounting Height**<br>- Refer to PML spec sheet for details<br>- Available with UL voltage only<br>- Intended for downlight applications at 0° tilt<br>**PML2 Programmable Multi-Level, 10-30' Mounting Height**<br>- Refer to PML spec sheet for details<br>- Available with UL voltage only<br>- Intended for downlight applications at 0° tilt<br>**Q9 Field Adjustable Output**<br>- Refer to Field Adjustable Output spec sheet for details<br>**R NEMA® Photocell Receptacle**<br>- Intended for downlight applications with maximum 45° tilt<br>- 3-pin receptacle per ANSI C136.10<br>- Photocell and shorting cap by others<br>**RL Rotate Left**<br>- LED and optic are rotated to the left<br>**RR Rotate Right**<br>- LED and optic are rotated to the right |

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

## Product Specifications

### CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** 26.5 lbs. (12kg)

### ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **10V Source Current:** 0.15mA

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 , Subpart B, Class A standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC qualified when ordered with asymmetric optics with 40K or 57K. Please refer to www.designlights.org/QPL for most current information
- RoHS compliant. Consult factory for additional details

**Electrical Data***

| Input Power Designator | Optic | System Watts 120-480V | Total Current 120V | 208V | 240V | 277V | 347V | 480V |
|---|---|---|---|---|---|---|---|---|
| A | Asymmetric | 112 | 0.97 | 0.56 | 0.49 | 0.43 | 0.34 | 0.25 |
| J | | 168 | 1.47 | 0.85 | 0.74 | 0.64 | 0.50 | 0.36 |
| B | Symmetric | 86 | 0.73 | 0.43 | 0.37 | 0.32 | 0.25 | 0.19 |
| K | | 130 | 1.09 | 0.65 | 0.56 | 0.49 | 0.38 | 0.28 |

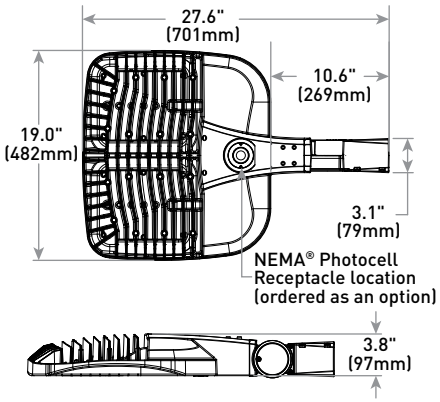
* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

**Recommended OSQ Series Lumen Maintenance Factors (LMF)[1]**

| Ambient | Optic | Initial LMF | 25K hr Projected[2] LMF | 50K hr Projected[2] LMF | 75K hr Projected[2] LMF | 100K hr Calculated[3] LMF |
|---|---|---|---|---|---|---|
| 5°C (41°F) | Asymmetric | 1.04 | 0.99 | 0.93 | 0.89 | 0.84 |
| | Symmetric | 1.05 | 1.00 | 0.96[3] | 0.92[3] | 0.88[3] |
| 10°C (50°F) | Asymmetric | 1.03 | 0.98 | 0.93 | 0.88 | 0.83 |
| | Symmetric | 1.04 | 0.99 | 0.95[3] | 0.91[3] | 0.87[3] |
| 15°C (59°F) | Asymmetric | 1.02 | 0.97 | 0.92 | 0.87 | 0.82 |
| | Symmetric | 1.02 | 0.98 | 0.94[3] | 0.90[3] | 0.87[3] |
| 20°C (68°F) | Asymmetric | 1.01 | 0.96 | 0.91 | 0.86 | 0.82 |
| | Symmetric | 1.01 | 0.96 | 0.92[3] | 0.88[3] | 0.85[3] |
| 25°C (77°F) | Asymmetric | 1.00 | 0.95 | 0.90 | 0.85 | 0.81 |
| | Symmetric | 1.00 | 0.95 | 0.91[3] | 0.88[3] | 0.84[3] |

[1] Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

**AA Mount**

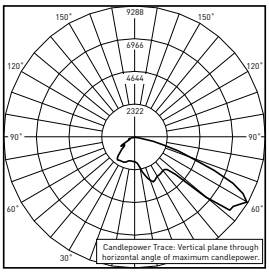



| Weight |
|---|
| 26.5 lbs. (12kg) |

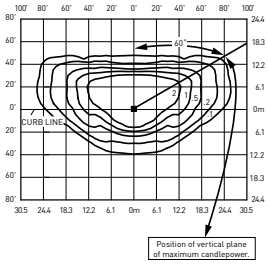
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

### 2ME



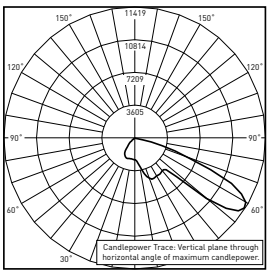

**RESTL Test Report #:** PL03347-001
OSQ-A-**-2ME-A-40K-UL
**Initial Delivered Lumens:** 10,988



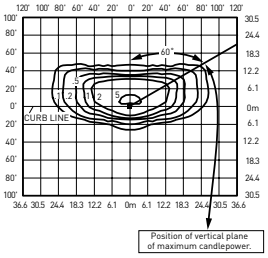

OSQ-A-**-2ME-J-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 16,356
Initial FC at grade

| Type II Medium Distribution | | | | | | |
|---|---|---|---|---|---|---|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| A | 9,136 | B2 U0 G1 | 10,904 | B2 U0 G2 | 11,649 | B2 U0 G2 |
| J | 13,703 | B2 U0 G2 | 16,356 | B3 U0 G2 | 17,474 | B3 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt




**RESTL Test Report #**: PL03642-003
OSQ-A-**-2ME-J-40K-UL w/OSQ-BLSMF
**Initial Delivered Lumens**: 14,643

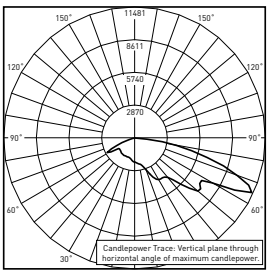



OSQ-A-**-2ME-J-40K-UL w/OSQ-BLSMF
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 14,020
Initial FC at grade

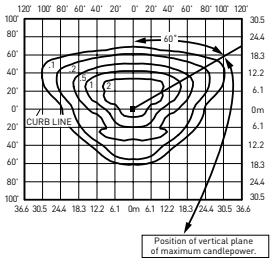
| Type II Medium w/BLS Distribution | | | | | | |
|---|---|---|---|---|---|---|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 |
| A | 7,831 | B1 U0 G1 | 9,346 | B2 U0 G2 | 9,985 | B2 U0 G2 |
| J | 11,746 | B2 U0 G2 | 14,020 | B2 U0 G2 | 14,978 | B2 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

### 3ME



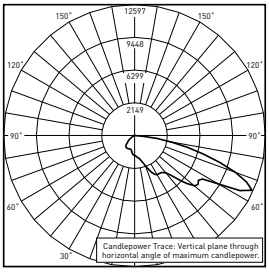

**RESTL Test Report #:** PL03478-001
OSQ-A-**-3ME-J-40K-UL
**Initial Delivered Lumens:** 16,257



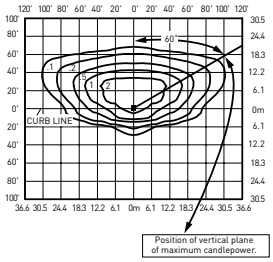

OSQ-A-**-3ME-J-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 16,189
Initial FC at grade

| Type III Medium Distribution | | | | | | |
|---|---|---|---|---|---|---|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 |
| A | 9,042 | B2 U0 G2 | 10,793 | B2 U0 G2 | 11,530 | B2 U0 G2 |
| J | 13,564 | B3 U0 G3 | 16,189 | B3 U0 G3 | 17,296 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt




**RESTL Test Report #**: PL03642-001
OSQ-A-**-3ME-J-40K-UL w/OSQ-BLSMF
**Initial Delivered Lumens**: 14,229




OSQ-A-**-3ME-J-40K-UL w/OSQ-BLSMF
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 13,853
Initial FC at grade

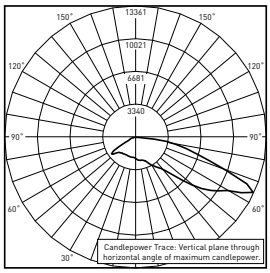
| Type III Medium w/BLS Distribution | | | | | | |
|---|---|---|---|---|---|---|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| A | 7,737 | B1 U0 G2 | 9,235 | B1 U0 G2 | 9,866 | B1 U0 G2 |
| J | 11,606 | B1 U0 G2 | 13,853 | B2 U0 G3 | 14,799 | B2 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

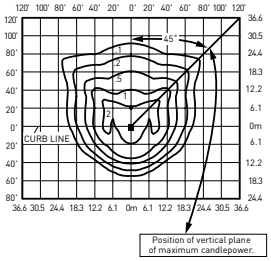
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

### 4ME




**RESTL Test Report #**: PL03496-001
OSQ-A-**-4ME-J-40K-UL
**Initial Delivered Lumens**: 16,293

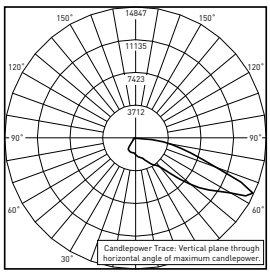



OSQ-A-**-4ME-J-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 16,022
Initial FC at grade

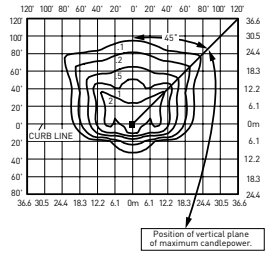
**Type IV Medium Distribution**

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|---|---|---|---|---|---|---|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| A | 8,949 | B2 U0 G2 | 10,682 | B2 U0 G2 | 11,412 | B2 U0 G3 |
| J | 13,424 | B3 U0 G3 | 16,022 | B3 U0 G3 | 17,117 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt




**RESTL Test Report #**: PL03642-002
OSQ-A-**-4ME-J-40K-UL w/OSQ-BLSMF
**Initial Delivered Lumens**: 13,647



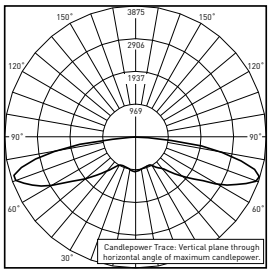

OSQ-A-**-4ME-J-40K-UL w/OSQ-BLSMF
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 13,686
Initial FC at grade

**Type IV Medium w/BLS Distribution**

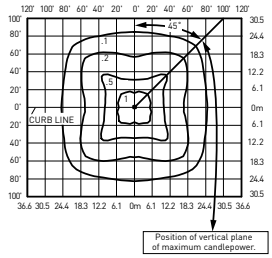
| Input Power Designator | 3000K | | 4000K | | 5700K | |
|---|---|---|---|---|---|---|
| | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 |
| A | 7,644 | B1 U0 G2 | 9,124 | B1 U0 G2 | 9,747 | B1 U0 G2 |
| J | 11,466 | B2 U0 G3 | 13,686 | B2 U0 G3 | 14,621 | B2 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

### 5ME




**CESTL Test Report #**: PL08101-001C
OSQ-A-**-5ME-B-30K-UL
**Initial Delivered Lumens**: 9,304



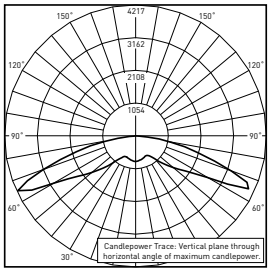

OSQ-A-**-5ME-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 10,867
Initial FC at grade

**Type V Medium Distribution**

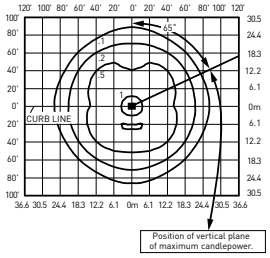
| Input Power Designator | 3000K | | 4000K | | 5700K | |
|---|---|---|---|---|---|---|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| B | 9,387 | B3 U0 G3 | 10,867 | B4 U0 G4 | 11,056 | B4 U0 G4 |
| K | 13,819 | B4 U0 G4 | 15,999 | B4 U0 G5 | 16,277 | B4 U0 G5 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

### 5SH




**CESTL Test Report #**: PL08102-001B
OSQ-A-**-5SH-B-30K-UL
**Initial Delivered Lumens**: 9,935




OSQ-A-**-5SH-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G.
**Initial Delivered Lumens:** 11,478
Initial FC at grade

**Type V Short Distribution**

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|---|---|---|---|---|---|---|
| | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 |
| B | 9,914 | B4 U0 G3 | 11,478 | B4 U0 G3 | 11,678 | B4 U0 G3 |
| K | 14,595 | B4 U0 G3 | 16,897 | B4 U0 G3 | 17,191 | B4 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

## Photometry

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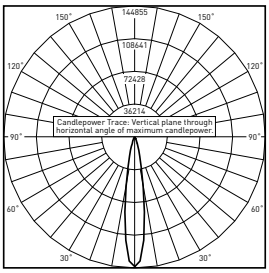
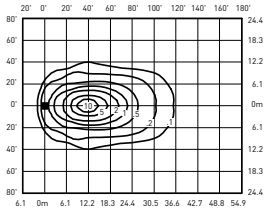
### 15D




**CESTL Test Report #**: PL07689-001A
OSQ-A-**-15D-U-30K-UL
**Initial Delivered Lumens**: 23,254

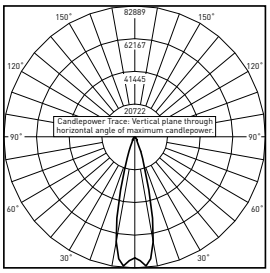


OSQ-A-**-15D-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 11,478
Initial FC at grade

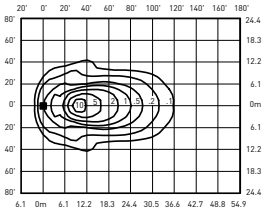
| 15° Flood Distribution | | | |
|---|---|---|---|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| B | 9,914 | 11,478 | 11,678 |
| K | 14,595 | 16,897 | 17,191 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

### 25D




**CESTL Test Report #**: PL07687-001A
OSQ-A-**-25D-U-30K-UL
**Initial Delivered Lumens**: 23,265

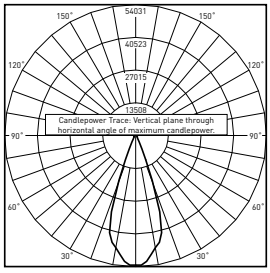


OSQ-A-**-25D-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 11,478
Initial FC at grade

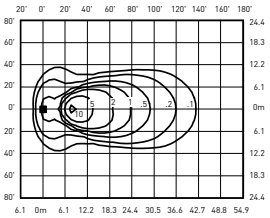
| 25° Flood Distribution | | | |
|---|---|---|---|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| B | 9,914 | 11,478 | 11,678 |
| K | 14,595 | 16,897 | 17,191 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

### 40D




**CESTL Test Report #**: PL07697-001A
OSQ-A-**-40D-U-30K-UL
**Initial Delivered Lumens**: 22,943



OSQ-A-**-40D-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 11,478
Initial FC at grade

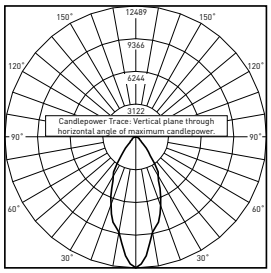
| 40° Flood Distribution | | | |
|---|---|---|---|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| B | 9,914 | 11,478 | 11,678 |
| K | 14,595 | 16,897 | 17,191 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

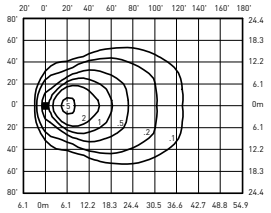
## Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

### 60D




**CESTL Test Report #**: PL08100-001B
OSQ-A-**-60D-B-30K-UL
**Initial Delivered Lumens**: 10,079

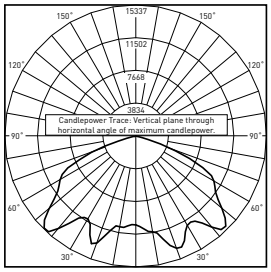


OSQ-A-**-60D-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 11,478
Initial FC at grade

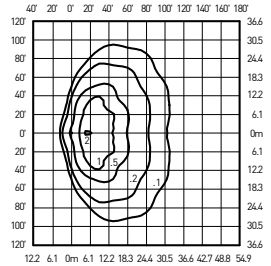
| 60° Flood Distribution | | | |
|---|---|---|---|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| B | 9,914 | 11,478 | 11,678 |
| K | 14,595 | 16,897 | 17,191 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

### WSN




**CESTL Test Report #**: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
**Initial Delivered Lumens**: 23,116



OSQ-A-**-WSN-B-40K-UL
**Mounting Height:** 25' (7.6m) A.F.G., 60° Tilt
**Initial Delivered Lumens:** 11,478
Initial FC at grade

| Wide Sign Distribution | | | |
|---|---|---|---|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| B | 9,914 | 11,478 | 11,678 |
| K | 14,595 | 16,897 | 17,191 |

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

## Luminaire EPA

| **Fixed Arm Mount – OSQ-DA** Weight: 26.5 lbs. (12kg) | | | | | |
|---|---|---|---|---|---|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 4 @ 90° |
|  |  | | | | |
| 0.74 | 1.48 | 1.19 | 1.93 | 1.63 | 2.38 |

| **Adjustable Arm Mount – OSQ-AA** Weight: 26.5 lbs. (12kg) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 3 @ 180° | 4 @ 180° | 4 @ 90° |
| **Tenon Configuration** (0°-80° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA | | | | | | | |
| PB-1A*; PT-1; PW-1A3** | PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3** | PB-2A*; PD-2A4(90); PT-2(90) | PB-3A*; PD-3A4(90); PT-3(90) | PB-3A*; PT-3(120) | PB-3A*; PB-3R2.375 | PB-4A*(180) | PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90) |
| **0° Tilt** | | | | | | | |
| 0.74 | 1.48 | 1.19 | 1.93 | 1.63 | 3.33 | 4.66 | 2.38 |
| **10° Tilt** | | | | | | | |
| 0.75 | 1.48 | 1.49 | 2.23 | 2.15 | 4.22 | 5.84 | 2.98 |
| **20° Tilt** | | | | | | | |
| 1.12 | 1.48 | 1.86 | 2.60 | 2.85 | 5.31 | 7.32 | 3.72 |
| **30° Tilt** | | | | | | | |
| 1.46 | 1.48 | 2.20 | 2.94 | 3.56 | 6.34 | 8.68 | 4.40 |
| **45° Tilt** | | | | | | | |
| 1.96 | 1.96 | 2.69 | 3.43 | 4.54 | 7.83 | 10.68 | 5.38 |
| **60° Tilt** | | | | | | | |
| 2.33 | 2.33 | 3.07 | 3.81 | 5.11 | 8.94 | 12.16 | 6.14 |
| **70° Tilt** | | | | | | | |
| 2.49 | 2.49 | 3.23 | 3.97 | 5.11 | 9.43 | 12.80 | 6.46 |
| **80° Tilt** | | | | | | | |
| 2.58 | 2.58 | 3.32 | 4.06 | 5.11 | 9.71 | 13.16 | 6.64 |
| **Tenon Configuration** (90° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA | | | | | | | |
| PB-1A*; PT-1; PW-1A3** | PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3** | PB-2A* | PB-3A* | PB-3A*; PT-3(120) | PB-3A*; PB-3R2.375 | PB-4A*(180) | PB-4A*(90); PB-4R2.375 |
| **90° Tilt** | | | | | | | |
| 2.61 | 2.61 | 4.44 | 6.05 | 5.11 | 9.79 | 13.28 | 10.39 |

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

## Tenon EPA

| Part Number | EPA |
|---|---|
| PB-1A* | None |
| PB-2A* | 0.82 |
| PB-3A* | 1.52 |
| PB-4A*(180) | 2.22 |
| PB-4A*(90) | 1.11 |
| PB-2R2.375 | 0.92 |
| PB-3R2.375 | 1.62 |
| PB-4R2.375 | 2.32 |
| PD Series Tenons | 0.09 |
| PT Series Tenons | 0.10 |
| PW-1A3** | 0.47 |
| PW-2A3** | 0.94 |
| WM-2 | 0.08 |
| WM-4 | 0.25 |
| WM-DM | None |

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation

** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

**Tenons and Brackets‡ (must specify color)**

**Square Internal Mount Vertical Tenons (Steel)**
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

**Square Internal Mount Horizontal Tenons (Aluminum)**
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

**Wall Mount Brackets**
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-AA mount
WM-4 – L-Shape for OSQ-AA mount
WM-DM – Plate for OSQ-DA mount

**Round External Mount Vertical Tenons (Steel)**
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

**Round External Mount Horizontal Tenons (Aluminum)**
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-4(90) – 90˚ Quad

**Mid-Pole Bracket**
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

**Ground Mount Post**
- For ground mounted flood luminaires

PGM-1 - for OSQ-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

## Direct Mount Configurations

| Compatibility with OSQ-DA Direct Mount Bracket | | | | | |
|---|---|---|---|---|---|
| Input Power Designator | 2 @ 90˚ | 2 @ 180˚ | 3 @ 90˚ | 3 @ 120˚ | 4 @ 90˚ |
| **3" Square** | | | | | |
| A, J, B & K | N/A | ✓ | N/A | N/A | N/A |
| **3" Round** | | | | | |
| A, J, B & K | N/A | ✓ | N/A | N/A | N/A |
| **4" Square** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | N/A | ✓ |
| **4" Round** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | ✓ | ✓ |
| **5" Square** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | N/A | ✓ |
| **5" Round** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | ✓ | ✓ |
| **6" Square** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | N/A | ✓ |
| **6" Round** | | | | | |
| A, J, B & K | ✓ | ✓ | ✓ | ✓ | ✓ |

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**US: lighting.cree.com/lighting** T (800) 236-6800 F (262) 504-5415

**Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507