

# Cree Edge® Series

LED High Output Area/Flood Luminaire featuring Cree TrueWhite® Technology

Rev. Date: V12 11/11/2019

## Product Description

The Cree Edge® High Output Area/Flood luminaire is designed to deliver high lumen packages with precise optical control. The unit features a slim, low profile design that minimizes wind load and is available with two mounting options made with rugged die cast aluminum. The HV mount tenon is an adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm). The direct mount bracket accessory allows for further mounting flexibility. The AA mount is an adjustable arm that mounts to a vertical 2" (51mm) IP, 2.375-3" (60-76mm) O.D. minimum 3.75" (95mm) tall tenon. The adjustable arm mount is for use in applications which have a vertical tenon and require a NEMA® Photocell Receptacle. Available with Cree TrueWhite® Technology, the Cree Edge® High Output helps to beautifully render true colors and deliver value beyond energy savings.

**Applications:** Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

## Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Patented NanoOptic® Product Technology

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

**CRI:** Minimum 70 CRI (4000K & 5700K); 90 CRI (5000K)

**CCT:** 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K) standard

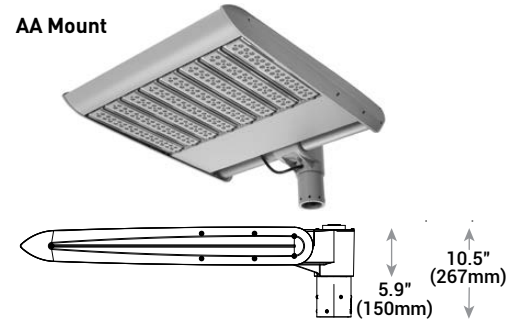
**Limited Warranty\*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

\* See <http://creelighting.com/warranty> for warranty terms

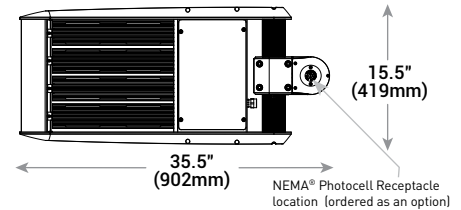
## Accessories

| Field-Installed                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bird Spikes</b><br>XA-BRDSKXAK12<br>- 120 LED<br>XA-BRDSKXAK24<br>- 240 LED                                                                                                                                                                                                                                                                                         | <b>Backlight Control Shields</b><br>XA-30BLS-4<br>- Four-pack for 120 LED<br>- Unpainted stainless steel<br>XA-30BLS-8<br>- Eight-pack for 240 LED<br>- Unpainted stainless steel |
| <b>Direct Mount Bracket</b><br>EHO-UNV<br>- Mounts to minimum 4" (102mm) round or square; aluminum or steel pole or can be surface-mounted directly to a vertical or horizontal surface<br>- For use with HV mount only<br>- Must specify finish color<br>- See Direct Mount Configurations table on page 15<br>- Poles must be field-drilled for direct mount EHO-UNV | <b>Shorting Cap</b><br>XA-XSLSHRT                                                                                                                                                 |

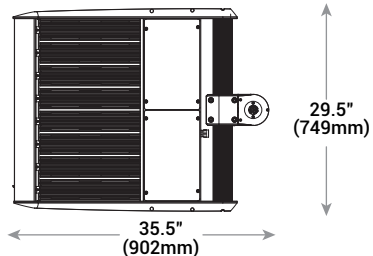
## AA Mount



## 120 LED



## 240 LED



| LED Count (x10) | Weight             |
|-----------------|--------------------|
| 12              | 45.3 lbs. (20.5kg) |
| 24              | 80.5 lbs. (36.5kg) |

**HV Mount and Direct Mount Bracket** - see page 16 for weight & dimensions

## Ordering Information

Example: ARE-EHO-2M-HV-12-E-UL-SV-700

|         |                                     |                                       |                                      |                                                                                                             | E               |        |                          |                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |
|---------|-------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|--------|--------------------------|----------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product | Optic                               |                                       |                                      | Mounting*                                                                                                   | LED Count (x10) | Series | Voltage                  | Color Options  | Drive Current                                      | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |
| ARE-EHO | 1S<br>Type I Short                  | 2SB<br>Type II Short w/BLS            | 4M<br>Type IV Medium                 | AA<br>Adjustable Arm                                                                                        | 12<br>24        | E      | UL<br>Universal 120-277V | BK<br>Black    | 700<br>700mA                                       | DIM 0-10V Dimming<br>- Control by others<br>- Refer to <a href="#">Dimming spec sheet</a> for details<br>- Can't exceed specified drive current<br>- Not available with PML option<br><br>PML Programmable Multi-Level, 20-40' Mounting Height<br>- Available only with UL voltage<br>- Not available with 240 LEDs with 1000mA drive current<br>- Refer to <a href="#">PML spec sheet</a> for details<br>- Intended for downlight applications at 0° tilt | R NEMA® 3-Pin Photocell Receptacle<br>- 3-pin receptacle per ANSI C136.10<br>- Vertical tenon applications require use of AA mount<br>- Intended for downlight applications with maximum 45° tilt<br>- Requires photocell or shorting cap (by others)<br>- Refer to <a href="#">PML spec sheets</a> for availability with PML option | RL Rotate Left<br>- Optic is rotated to the left                                                                              |
|         | 2M<br>Type II Medium                | 2SP<br>Type II Short w/ Partial BLS   | 4MB<br>Type IV Medium w/BLS          | - For use in applications which require a vertical tenon and a NEMA® Photocell Receptacle                   |                 |        | BZ<br>Bronze             | 1000<br>1000mA | RR Rotate Right<br>- Optic is rotated to the right |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |
|         | 2MB<br>Type II Medium w/BLS         | 3M<br>Type III Medium                 | 4MP<br>Type IV Medium w/ Partial BLS | HV<br>Horizontal/ Vertical Tenon                                                                            |                 |        | UH<br>Universal 347-480V | SV<br>Silver   |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      | 40K 4000K Color Temperature<br>- Minimum 70 CRI<br>- Color temperature per luminaire                                          |
|         | 2MP<br>Type II Medium w/Partial BLS | 3MB<br>Type III Medium w/BLS          | 5M<br>Type V Medium                  | - Available with Direct Mount Bracket when ordered with EHO-UNV field-installed accessory (see table above) |                 |        |                          | WH<br>White    |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      | 50K 5000K Color Temperature<br>- Minimum 90 CRI<br>- Utilizes Cree TrueWhite® Technology<br>- Color temperature per luminaire |
|         | 2S<br>Type II Short                 | 3MP<br>Type III Medium w/ Partial BLS | AF<br>Automotive Frontline-Optic™    | - Not for use with NEMA receptacle when mounted to vertical tenon                                           |                 |        |                          |                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |
| FLD-EHO | 15<br>15° Flood                     | 40<br>40° Flood                       | SN<br>Sign                           |                                                                                                             |                 |        |                          |                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |
|         | 25<br>25° Flood                     | 70<br>70° Flood                       | N6<br>NEMA® 6                        |                                                                                                             |                 |        |                          |                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |

\* Reference EPA and pole configuration suitability data beginning on page 14



US: [creelighting.com](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

# CREE LIGHTING

## Product Specifications

### CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

### CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high-performance heat sinks
- HV mount – adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm). **Not for use with NEMA receptacle when mounted to vertical tenon**
- AA mount – adjustable mounting arm is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375-3" (60-76mm) O.D. minimum 3.75" (95mm) tall vertical tenon
- Surface-mount directly to a vertical or horizontal surface with field-installed EHO-UNV direct mount bracket (accessory (refer to table on page 1))
- Luminaire may be field adjusted for use in uplight position. Please refer to installation instructions for details
- Extruded aluminum adjustable mounting shaft
- Luminaire is adjustable from horizontal 90° towards pole and 120° away from pole
- 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:** See weight charts on pages 1 and 16

### 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
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Consult factory if in-luminaire fusing is required
- **Maximum 10V Source Current:** 120 LED: 0.40mA; 240 LED: 0.80mA

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Consult factory for CE Certified products
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits 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
- RoHS compliant. Consult factory for additional details
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

| Electrical Data*   |                             |                   |      |      |      |      |      |
|--------------------|-----------------------------|-------------------|------|------|------|------|------|
| LED Count<br>(x10) | System<br>Watts<br>120-480V | Total Current (A) |      |      |      |      |      |
|                    |                             | 120V              | 208V | 240V | 277V | 347V | 480V |
| 700mA              |                             |                   |      |      |      |      |      |
| 12                 | 267                         | 2.24              | 1.29 | 1.12 | 0.99 | 0.80 | 0.58 |
| 24                 | 533                         | 4.49              | 2.57 | 2.24 | 1.97 | 1.62 | 1.16 |
| 1000mA             |                             |                   |      |      |      |      |      |
| 12                 | 421                         | 3.61              | 2.06 | 1.80 | 1.61 | 1.25 | 0.90 |
| 24                 | 831                         | 7.16              | 4.04 | 3.54 | 3.14 | 2.50 | 1.81 |

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

| Cree Edge® High Output Ambient Adjusted Lumen Maintenance <sup>1</sup> |             |                                  |                                  |                                   |                                    |
|------------------------------------------------------------------------|-------------|----------------------------------|----------------------------------|-----------------------------------|------------------------------------|
| Ambient                                                                | Initial LMF | 25K hr Reported <sup>2</sup> LMF | 50K hr Reported <sup>2</sup> LMF | 75K hr Estimated <sup>3</sup> LMF | 100K hr Estimated <sup>3</sup> LMF |
| 5°C (41°F)                                                             | 1.04        | 1.01                             | 0.99                             | 0.98                              | 0.96                               |
| 10°C (50°F)                                                            | 1.03        | 1.00                             | 0.98                             | 0.97                              | 0.95                               |
| 15°C (59°F)                                                            | 1.02        | 0.99                             | 0.97                             | 0.96                              | 0.94                               |
| 20°C (68°F)                                                            | 1.01        | 0.98                             | 0.96                             | 0.95                              | 0.93                               |
| 25°C (77°F)                                                            | 1.00        | 0.97                             | 0.95                             | 0.94                              | 0.92                               |

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

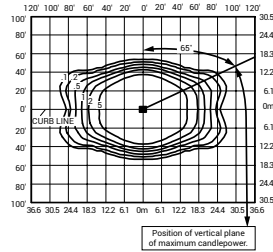
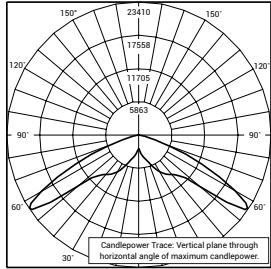
<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED

<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

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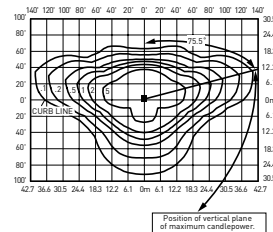
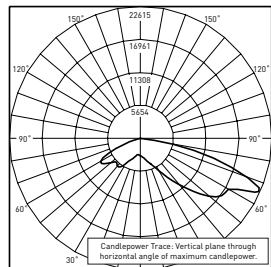
### Type I Short Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 30,299                    | B5 U1 G4                   | 23,236                    | B4 U1 G3                   | 30,932                    | B5 U1 G4                   |
| 24              | 60,636                    | B5 U1 G5                   | 46,502                    | B5 U1 G4                   | 61,902                    | B5 U1 G5                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 41,484                    | B5 U1 G4                   | 31,806                    | B5 U1 G4                   | 42,327                    | B5 U1 G4                   |
| 24              | 83,020                    | B5 U1 G5                   | 63,652                    | B5 U1 G5                   | 84,707                    | B5 U1 G5                   |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

2M



### Type II Medium Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 25,637                    | B4 U1 G4                   | 19,661                    | B3 U1 G3                   | 26,173                    | B4 U1 G4                   |
| 24              | 51,307                    | B5 U1 G5                   | 39,348                    | B4 U1 G4                   | 52,379                    | B5 U1 G5                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 35,102                    | B4 U1 G4                   | 26,913                    | B4 U1 G4                   | 35,815                    | B4 U1 G4                   |
| 24              | 70,248                    | B5 U1 G5                   | 53,859                    | B5 U1 G5                   | 71,675                    | B5 U1 G5                   |

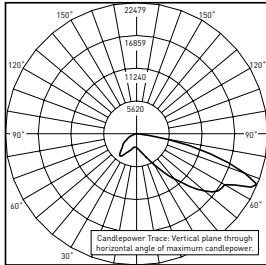
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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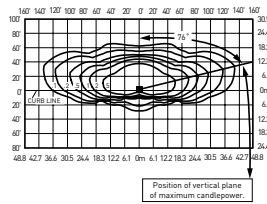
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

### 2MB



ITL Test Report #: 78683  
ARE-EHO-2MB-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 24,579



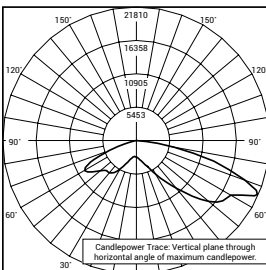
ARE-EHO-2MB-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 40,569  
Initial FC at grade

| Type II Medium w/BLS Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|-----------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)                | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                                   | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 |
| 700mA                             |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                | 19,311                          | B2 U1 G3                            | 14,810                          | B2 U1 G2                            | 19,715                          | B2 U1 G3                            |
| 24                                | 38,647                          | B3 U1 G4                            | 29,639                          | B3 U1 G4                            | 39,454                          | B3 U1 G4                            |
| 1000mA                            |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                | 26,440                          | B2 U1 G3                            | 20,272                          | B2 U1 G3                            | 26,977                          | B3 U1 G3                            |
| 24                                | 52,914                          | B3 U1 G5                            | 40,569                          | B3 U1 G4                            | 53,989                          | B3 U1 G5                            |

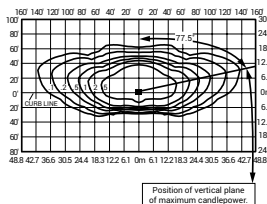
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

### 2MP



ITL Test Report #: 78688  
ARE-EHO-2MP-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 28,203



ARE-EHO-2MP-\*\*-24-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 62,037  
Initial FC at grade

| Type II Medium w/Partial BLS Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|-------------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)                        | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                                           | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 |
| 700mA                                     |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                        | 22,641                          | B3 U1 G3                            | 17,363                          | B3 U1 G3                            | 23,114                          | B3 U1 G3                            |
| 24                                        | 45,310                          | B4 U1 G4                            | 34,749                          | B3 U1 G4                            | 46,257                          | B4 U1 G4                            |
| 1000mA                                    |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                        | 30,999                          | B3 U1 G3                            | 23,767                          | B3 U1 G3                            | 31,629                          | B3 U1 G3                            |
| 24                                        | 62,037                          | B4 U1 G5                            | 47,564                          | B4 U1 G4                            | 63,298                          | B4 U1 G5                            |

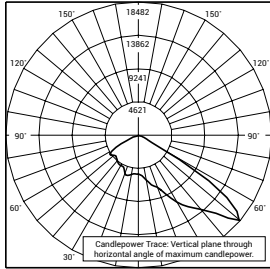
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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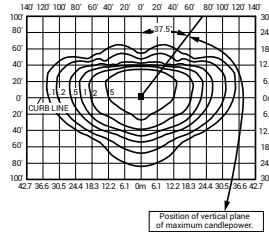
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

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ITL Test Report #: 78639  
ARE-EHO-2S-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 34,4783



ARE-EHO-2S-\*\*-24-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 74,809  
Initial FC at grade

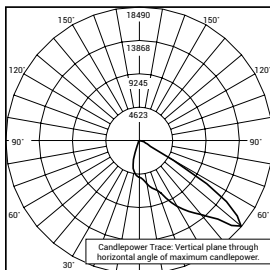
### Type II Short Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 27,302                    | B4 U1 G4                   | 20,938                    | B3 U1 G3                   | 27,872                    | B4 U1 G4                   |
| 24              | 54,639                    | B5 U1 G5                   | 41,903                    | B4 U1 G4                   | 55,780                    | B5 U1 G5                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 37,381                    | B4 U1 G4                   | 28,660                    | B4 U1 G4                   | 38,141                    | B4 U1 G4                   |
| 24              | 74,809                    | B5 U1 G5                   | 57,357                    | B5 U1 G5                   | 76,330                    | B5 U1 G5                   |

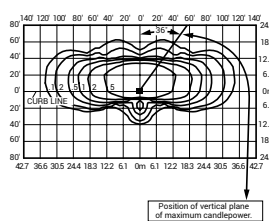
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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25B



ITL Test Report #: 78684  
ARE-EHO-2SB-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 26,431



ARE-EHO-2SB-\*\*-24-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 57,475  
Initial FC at grade

### Type II Short w/BLS Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 20,976                    | B3 U1 G2                   | 16,087                    | B2 U1 G2                   | 21,414                    | B3 U1 G2                   |
| 24              | 41,978                    | B3 U1 G4                   | 32,194                    | B3 U1 G3                   | 42,855                    | B3 U1 G4                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 28,719                    | B3 U1 G3                   | 22,019                    | B3 U1 G2                   | 29,303                    | B3 U1 G3                   |
| 24              | 57,475                    | B4 U1 G4                   | 44,067                    | B4 U1 G4                   | 58,643                    | B4 U1 G4                   |

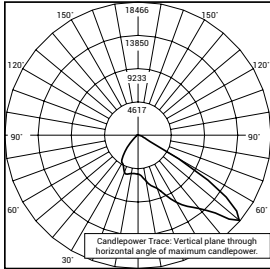
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

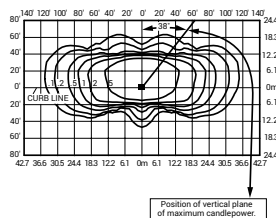
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

### 2SP



ITL Test Report #: 78686  
ARE-EHO-2SP-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 30,296



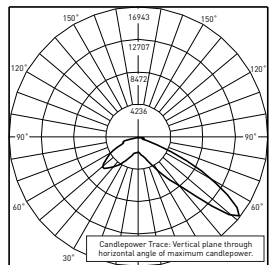
ARE-EHO-2SP-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 51,061  
Initial FC at grade

| Type II Short w/Partial BLS Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|------------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)                       | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                                          | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM 15 11 |
| 700mA                                    |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                       | 24,305                          | B3 U1 G3                            | 18,640                          | B3 U1 G3                            | 24,813                          | B3 U1 G3                            |
| 24                                       | 48,642                          | B4 U1 G4                            | 37,304                          | B4 U1 G3                            | 49,658                          | B4 U1 G4                            |
| 1000mA                                   |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                       | 33,278                          | B4 U1 G3                            | 25,514                          | B3 U1 G3                            | 33,954                          | B4 U1 G3                            |
| 24                                       | 66,599                          | B5 U1 G4                            | 51,061                          | B4 U1 G4                            | 67,952                          | B5 U1 G4                            |

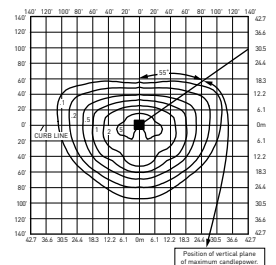
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

### 3M



RESTL Test Report #: PL10164-002  
ARE-EHO-3M-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 33,797



ARE-EHO-3M-\*\*-24-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 33,278  
Initial FC at grade

| Type III Medium Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)           | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                              | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 |
| 700mA                        |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                           | 24,305                          | B4 U0 G4                            | 18,640                          | B3 U0 G3                            | 24,813                          | B4 U0 G4                            |
| 24                           | 48,642                          | B5 U0 G5                            | 37,304                          | B4 U0 G4                            | 49,658                          | B5 U0 G5                            |
| 1000mA                       |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                           | 33,278                          | B4 U0 G4                            | 25,514                          | B4 U0 G4                            | 33,954                          | B4 U0 G4                            |
| 24                           | 66,599                          | B5 U0 G5                            | 51,061                          | B5 U0 G5                            | 67,952                          | B5 U0 G5                            |

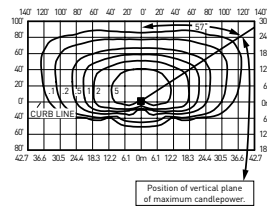
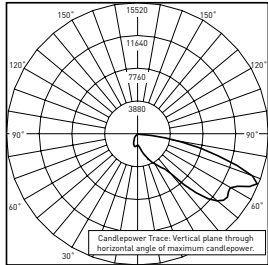
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

## Photometry

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### 3MB

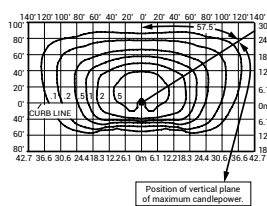
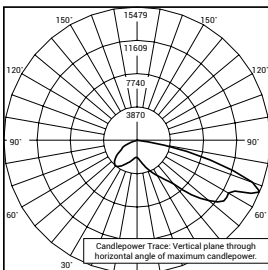


| Type III Medium w/BLS Distribution |                           |                            |                           |                            |                           |                            |
|------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10)                    | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA                              |                           |                            |                           |                            |                           |                            |
| 12                                 | 17,979                    | B2 U1 G3                   | 13,789                    | B2 U1 G3                   | 18,355                    | B2 U1 G3                   |
| 24                                 | 35,982                    | B3 U1 G5                   | 27,595                    | B3 U1 G4                   | 36,733                    | B3 U1 G5                   |
| 1000mA                             |                           |                            |                           |                            |                           |                            |
| 12                                 | 24,617                    | B2 U1 G4                   | 18,874                    | B2 U1 G3                   | 25,117                    | B2 U1 G4                   |
| 24                                 | 49,265                    | B3 U1 G5                   | 37,771                    | B3 U1 G5                   | 50,266                    | B3 U1 G5                   |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

### 3MP



| Type III Medium w/Partial BLS Distribution |                           |                            |                           |                            |                           |                            |
|--------------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10)                            | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA                                      |                           |                            |                           |                            |                           |                            |
| 12                                         | 21,309                    | B3 U1 G3                   | 16,342                    | B3 U1 G3                   | 21,754                    | B3 U1 G3                   |
| 24                                         | 42,645                    | B4 U1 G5                   | 32,705                    | B3 U1 G4                   | 43,536                    | B4 U1 G5                   |
| 1000mA                                     |                           |                            |                           |                            |                           |                            |
| 12                                         | 29,175                    | B3 U1 G4                   | 22,369                    | B3 U1 G3                   | 29,768                    | B3 U1 G4                   |
| 24                                         | 58,388                    | B4 U1 G5                   | 44,766                    | B4 U1 G5                   | 59,574                    | B4 U1 G5                   |

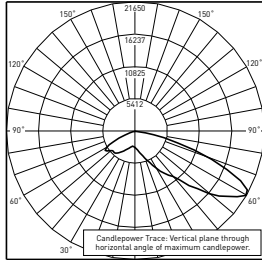
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

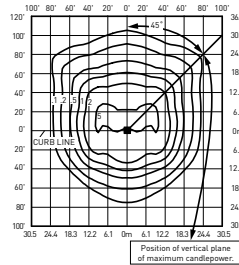
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

### 4M



RESTL Test Report #: PL09297-001  
ARE-EHO-4M-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 34,817



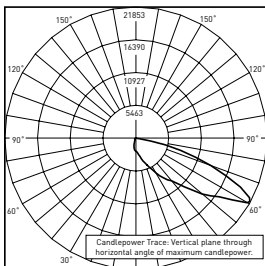
ARE-EHO-4M-\*\*-12-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 35,102  
Initial FC at grade

| Type IV Medium Distribution |                           |                            |                           |                            |                           |                            |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10)             | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA                       |                           |                            |                           |                            |                           |                            |
| 12                          | 25,637                    | B4 U0 G3                   | 19,661                    | B3 U0 G3                   | 26,173                    | B4 U0 G3                   |
| 24                          | 51,307                    | B5 U0 G5                   | 39,348                    | B4 U0 G4                   | 52,379                    | B5 U0 G5                   |
| 1000mA                      |                           |                            |                           |                            |                           |                            |
| 12                          | 35,102                    | B4 U0 G4                   | 26,913                    | B4 U0 G3                   | 35,815                    | B4 U0 G4                   |
| 24                          | 70,248                    | B5 U0 G5                   | 53,859                    | B5 U0 G5                   | 71,675                    | B5 U0 G5                   |

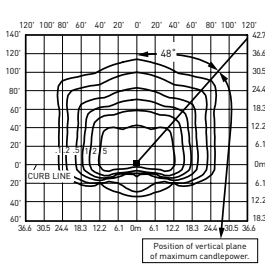
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

### 4MB



ITL Test Report #: 78734  
ARE-EHO-4MB-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 25,113



ARE-EHO-4MB-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 40,569  
Initial FC at grade

| Type IV Medium w/BLS Distribution |                           |                            |                           |                            |                           |                            |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10)                   | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA                             |                           |                            |                           |                            |                           |                            |
| 12                                | 19,311                    | B2 U1 G3                   | 14,810                    | B2 U1 G2                   | 19,715                    | B2 U1 G3                   |
| 24                                | 38,647                    | B3 U1 G5                   | 29,639                    | B2 U1 G4                   | 39,454                    | B3 U1 G5                   |
| 1000mA                            |                           |                            |                           |                            |                           |                            |
| 12                                | 26,440                    | B2 U1 G4                   | 20,272                    | B2 U1 G3                   | 26,977                    | B2 U1 G4                   |
| 24                                | 52,914                    | B3 U1 G5                   | 40,569                    | B3 U1 G5                   | 53,989                    | B3 U1 G5                   |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

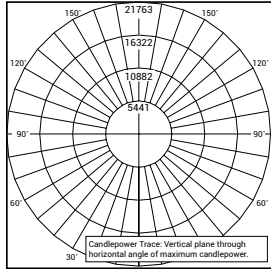
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



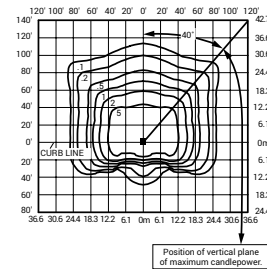
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

### 4MP



ITL Test Report #: 78967  
ARE-EHO-4MP-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 28,934



ARE-EHO-4MP-\*\*-24-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 62,037  
Initial FC at grade

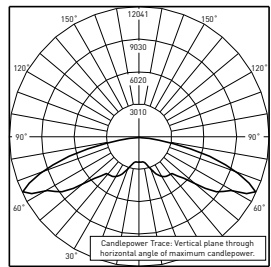
#### Type IV Medium w/Partial BLS Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 22,641                    | B3 U1 G3                   | 17,363                    | B2 U1 G3                   | 23,114                    | B3 U1 G3                   |
| 24              | 45,310                    | B4 U1 G5                   | 34,749                    | B3 U1 G4                   | 46,257                    | B4 U1 G5                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 30,999                    | B3 U1 G4                   | 23,767                    | B3 U1 G3                   | 31,629                    | B3 U1 G4                   |
| 24              | 62,037                    | B5 U1 G5                   | 47,564                    | B4 U1 G5                   | 63,298                    | B5 U1 G5                   |

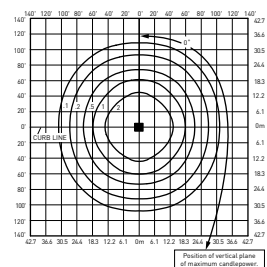
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

### 5M



RESL Test Report #: PL09298-001  
ARE-EHO-5M-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 36,005



ARE-EHO-5M-\*\*-12-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 36,925  
Initial FC at grade

#### Type V Medium Distribution

| LED Count (x10) | 4000K                     |                            | 5000K                     |                            | 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 |
| 700mA           |                           |                            |                           |                            |                           |                            |
| 12              | 26,969                    | B5 U0 G3                   | 20,683                    | B4 U0 G3                   | 27,532                    | B5 U0 G3                   |
| 24              | 53,972                    | B5 U0 G5                   | 41,392                    | B5 U0 G4                   | 55,100                    | B5 U0 G5                   |
| 1000mA          |                           |                            |                           |                            |                           |                            |
| 12              | 36,925                    | B5 U0 G4                   | 28,311                    | B5 U0 G3                   | 37,675                    | B5 U0 G4                   |
| 24              | 73,897                    | B5 U0 G5                   | 56,657                    | B5 U0 G5                   | 75,399                    | B5 U0 G5                   |

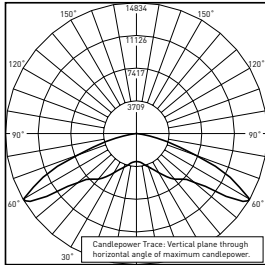
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

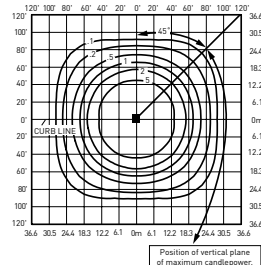
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

55



ITL Test Report #: 78687  
ARE-EHO-5S-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 37,329



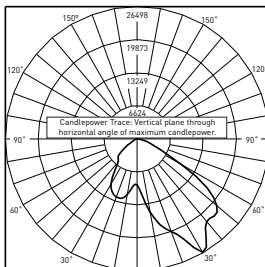
ARE-EHO-5S-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 62,952  
Initial FC at grade

| Type V Short Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|---------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)        | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                           | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 |
| 700mA                     |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                        | 29,966                          | B5 U0 G3                            | 22,981                          | B4 U0 G2                            | 30,592                          | B5 U0 G3                            |
| 24                        | 59,969                          | B5 U0 G4                            | 45,991                          | B5 U0 G4                            | 61,222                          | B5 U0 G4                            |
| 1000mA                    |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                        | 41,028                          | B5 U0 G4                            | 31,456                          | B5 U0 G3                            | 41,862                          | B5 U0 G4                            |
| 24                        | 82,108                          | B5 U0 G5                            | 62,952                          | B5 U0 G4                            | 83,776                          | B5 U0 G5                            |

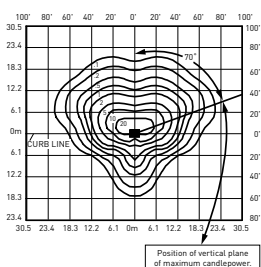
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:  
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

AF



RESTL Test Report #: PL09299-001  
ARE-EHO-AF-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 38,346



ARE-EHO-AF-\*\*-12-E-UL-1000-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 39,660  
Initial FC at grade

| Automotive FrontlineOptic™ Distribution |                                 |                                     |                                 |                                     |                                 |                                     |
|-----------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| LED Count<br>(x10)                      | 4000K                           |                                     | 5000K                           |                                     | 5700K                           |                                     |
|                                         | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 | Initial<br>Delivered<br>Lumens* | BUG<br>Ratings**<br>Per<br>TM-15-11 |
| 700mA                                   |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                      | 28,967                          | B4 U0 G2                            | 22,215                          | B3 U0 G2                            | 29,572                          | B4 U0 G2                            |
| 24                                      | 57,970                          | B5 U0 G2                            | 44,458                          | B4 U0 G2                            | 59,181                          | B5 U0 G2                            |
| 1000mA                                  |                                 |                                     |                                 |                                     |                                 |                                     |
| 12                                      | 39,660                          | B4 U0 G2                            | 30,408                          | B4 U0 G2                            | 40,466                          | B4 U0 G2                            |
| 24                                      | 79,371                          | B5 U0 G3                            | 60,854                          | B5 U0 G3                            | 80,984                          | B5 U0 G3                            |

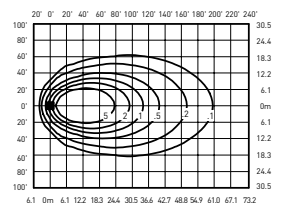
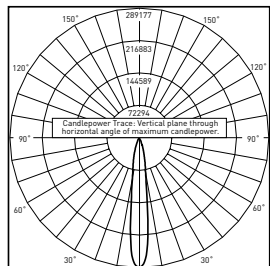
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:  
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

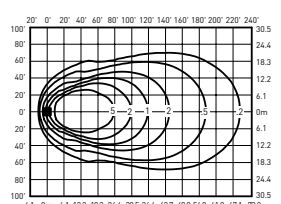
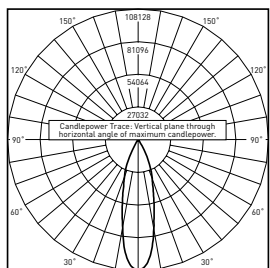
### 15°



| 15° Flood Optic Distribution |                           |                           |                           |
|------------------------------|---------------------------|---------------------------|---------------------------|
| LED Count (x10)              | 4000K                     | 5000K                     | 5700K                     |
|                              | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 700mA                        |                           |                           |                           |
| 12                           | 30,631                    | 23,492                    | 31,271                    |
| 24                           | 61,302                    | 47,013                    | 62,583                    |
| 1000mA                       |                           |                           |                           |
| 12                           | 41,940                    | 32,155                    | 42,792                    |
| 24                           | 83,932                    | 64,351                    | 85,638                    |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

### 25°



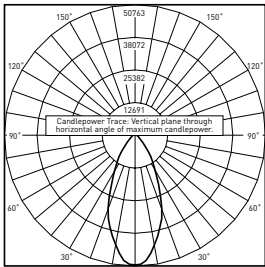
| 25° Flood Optic Distribution |                           |                           |                           |
|------------------------------|---------------------------|---------------------------|---------------------------|
| LED Count (x10)              | 4000K                     | 5000K                     | 5700K                     |
|                              | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 700mA                        |                           |                           |                           |
| 12                           | 30,631                    | 23,492                    | 31,271                    |
| 24                           | 61,302                    | 47,013                    | 62,583                    |
| 1000mA                       |                           |                           |                           |
| 12                           | 41,940                    | 32,155                    | 42,792                    |
| 24                           | 83,932                    | 64,351                    | 85,638                    |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

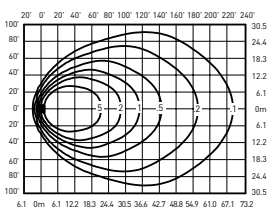
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

40°



ITL Test Report #: 78521  
FLD-EHO-40-\*\*-24-E-UL-1000-40K  
Initial Delivered Lumens: 36,476

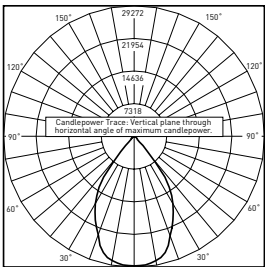


FLD-EHO-40-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G. - 60° tilt  
Initial Delivered Lumens: 62,952  
Initial FC at grade

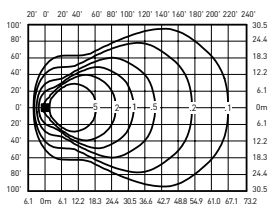
| 40° Flood Optic Distribution |                           |                           |                           |
|------------------------------|---------------------------|---------------------------|---------------------------|
| LED Count (x10)              | 4000K                     | 5000K                     | 5700K                     |
|                              | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 700mA                        |                           |                           |                           |
| 12                           | 29,966                    | 22,981                    | 30,592                    |
| 24                           | 59,969                    | 45,991                    | 61,222                    |
| 1000mA                       |                           |                           |                           |
| 12                           | 41,028                    | 31,456                    | 41,862                    |
| 24                           | 82,108                    | 62,952                    | 83,776                    |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

70°



ITL Test Report #: 78522  
FLD-EHO-70-\*\*-24-E-UL-1000-40K  
Initial Delivered Lumens: 33,030



FLD-EHO-70-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' (7.6m) A.F.G. - 60° tilt  
Initial Delivered Lumens: 57,357  
Initial FC at grade

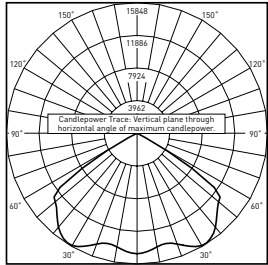
| 70° Flood Optic Distribution |                           |                           |                           |
|------------------------------|---------------------------|---------------------------|---------------------------|
| LED Count (x10)              | 4000K                     | 5000K                     | 5700K                     |
|                              | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 700mA                        |                           |                           |                           |
| 12                           | 27,302                    | 20,938                    | 27,872                    |
| 24                           | 54,639                    | 41,903                    | 55,780                    |
| 1000mA                       |                           |                           |                           |
| 12                           | 37,381                    | 28,660                    | 38,141                    |
| 24                           | 74,809                    | 57,357                    | 76,330                    |

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

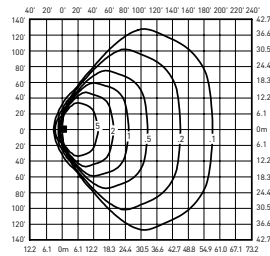
## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-high-output-1>

### N6



ITL Test Report #: 78562  
FLD-EH0-N6-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 38,110



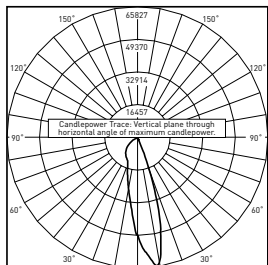
FLD-EH0-N6-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' [7.6m] A.F.G. - 60° tilt  
Initial Delivered Lumens: 64,351  
Initial FC at grade

#### NEMA 6 Distribution

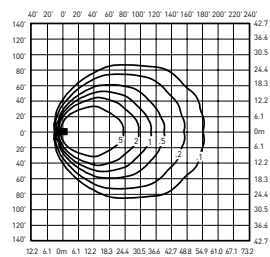
| LED Count<br>(x10) | 4000K                           | 5000K                           | 5700K                           |
|--------------------|---------------------------------|---------------------------------|---------------------------------|
|                    | Initial<br>Delivered<br>Lumens* | Initial<br>Delivered<br>Lumens* | Initial<br>Delivered<br>Lumens* |
| 700mA              |                                 |                                 |                                 |
| 12                 | 30,631                          | 23,492                          | 31,271                          |
| 24                 | 61,302                          | 47,013                          | 62,583                          |
| 1000mA             |                                 |                                 |                                 |
| 12                 | 41,940                          | 32,155                          | 42,792                          |
| 24                 | 83,932                          | 64,351                          | 85,638                          |

\* Initial delivered lumens at 25°C [77°F]. Actual production yield may vary between -10 and +10% of initial delivered lumens

### SN



ITL Test Report #: 78563  
FLD-EH0-SN-\*\*-12-E-UL-1000-40K  
Initial Delivered Lumens: 34,961



FLD-EH0-SN-\*\*-24-E-UL-1000-50K  
Mounting Height: 25' [7.6m] A.F.G. - 60° tilt  
Initial Delivered Lumens: 58,056  
Initial FC at grade

#### Sign Optic Distribution

| LED Count<br>(x10) | 4000K                           | 5000K                           | 5700K                           |
|--------------------|---------------------------------|---------------------------------|---------------------------------|
|                    | Initial<br>Delivered<br>Lumens* | Initial<br>Delivered<br>Lumens* | Initial<br>Delivered<br>Lumens* |
| 700mA              |                                 |                                 |                                 |
| 12                 | 27,635                          | 21,193                          | 28,212                          |
| 24                 | 55,305                          | 42,414                          | 56,460                          |
| 1000mA             |                                 |                                 |                                 |
| 12                 | 37,837                          | 29,010                          | 38,606                          |
| 24                 | 75,722                          | 58,056                          | 77,260                          |

\* Initial delivered lumens at 25°C [77°F]. Actual production yield may vary between -10 and +10% of initial delivered lumens

## Luminaire EPA

| Horizontal/Vertical Tenon Mount, Adjustable Arm Mount, and EHO-UNV Direct Mount Bracket        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| LED Count [x10]                                                                                | Luminaire Weight                                                                  | Single                                                                            | 2 @ 90°                                                                           | 2 @ 180°                                                                          | 2 @ 180°                                                                          | 3 @ 90°                                                                           | 3 @ 120°                                                                            | 3 @ 180°                                                                            | 4 @ 90°                                                                             | 4 @ 180°                                                                            |       |
| Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
|                                                                                                | Vertical                                                                          | Horizontal                                                                        | Vertical                                                                          | Vertical                                                                          | Vertical                                                                          | Vertical                                                                          | Vertical                                                                            | Vertical                                                                            | Vertical                                                                            | Vertical                                                                            |       |
|                                                                                                |  |  |  |  |  |  |  |  |  |  |       |
|                                                                                                | PB-1A*;<br>PW-1A3;<br>EHO-UNV                                                     | Horizontal<br>Tenon<br>(N/A w/AA<br>Mount)                                        | PB-2A*;<br>PB-2R2.375;<br>PW-2A3;<br>[2] EHO-UNV                                  | PB-2A*;<br>PB-2R2.375;<br>PW-2A3<br>(picture does not apply)                      | PB-2A*;<br>PB-2R2.375;<br>PW-2A3<br>(picture doesn't apply)                       | PB-3A*;<br>PB-3R2.375;<br>[3] EHO-UNV                                             | PB-3A*;<br>PB-3R2.375                                                               | PB-3A*;<br>PB-3R2.375                                                               | PB-4A*(90);<br>PB-4R2.375;<br>[4] EHO-UNV                                           | PB-4A*(180);<br>PB-4R2.375                                                          |       |
| 0° Tilt                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 1.41                                                                              | 1.41                                                                              | 2.35                                                                              | 2.83                                                                              | 2.83                                                                              | 3.76                                                                                | 3.76                                                                                | 4.24                                                                                | 4.70                                                                                | 5.66  |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 1.41                                                                              | 1.41                                                                              | 2.80                                                                              | 2.83                                                                              | N/A                                                                               | 4.22                                                                                | 4.22                                                                                | N/A                                                                                 | 5.61                                                                                | N/A   |
| 10° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 1.49                                                                              | 1.41                                                                              | 2.90                                                                              | 2.98                                                                              | 2.98                                                                              | 4.39                                                                                | 4.39                                                                                | 5.96                                                                                | 5.81                                                                                | 7.95  |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 2.38                                                                              | 1.97                                                                              | 2.38                                                                              | 4.76                                                                              | N/A                                                                               | 6.18                                                                                | 6.18                                                                                | N/A                                                                                 | 7.59                                                                                | N/A   |
| 20° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 2.11                                                                              | 1.71                                                                              | 3.53                                                                              | 4.22                                                                              | 4.22                                                                              | 5.64                                                                                | 5.64                                                                                | 8.45                                                                                | 7.05                                                                                | 11.26 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 3.46                                                                              | 3.11                                                                              | 4.87                                                                              | 6.92                                                                              | N/A                                                                               | 7.12                                                                                | 7.12                                                                                | N/A                                                                                 | 9.74                                                                                | N/A   |
| 30° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 2.69                                                                              | 2.30                                                                              | 4.11                                                                              | 5.39                                                                              | 5.39                                                                              | 6.80                                                                                | 6.80                                                                                | 10.78                                                                               | 8.22                                                                                | 14.37 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 4.59                                                                              | 4.23                                                                              | 6.97                                                                              | 9.19                                                                              | N/A                                                                               | 10.60                                                                               | 10.60                                                                               | N/A                                                                                 | 12.01                                                                               | N/A   |
| 45° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 3.50                                                                              | 3.11                                                                              | 4.91                                                                              | 6.99                                                                              | 6.99                                                                              | 8.40                                                                                | 8.40                                                                                | 13.98                                                                               | 9.82                                                                                | 18.64 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 6.03                                                                              | 5.73                                                                              | 7.44                                                                              | 10.31                                                                             | N/A                                                                               | 13.48                                                                               | 13.48                                                                               | N/A                                                                                 | 14.89                                                                               | N/A   |
| 60° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 4.12                                                                              | 3.74                                                                              | 5.54                                                                              | 8.25                                                                              | 8.25                                                                              | 9.66                                                                                | 9.66                                                                                | 16.49                                                                               | 11.08                                                                               | 21.99 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 7.24                                                                              | 6.91                                                                              | 8.65                                                                              | 12.37                                                                             | N/A                                                                               | 15.89                                                                               | 15.89                                                                               | N/A                                                                                 | 17.30                                                                               | N/A   |
| 70° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 4.41                                                                              | 4.03                                                                              | 5.83                                                                              | 8.83                                                                              | 8.83                                                                              | 10.24                                                                               | 10.24                                                                               | 17.65                                                                               | 11.65                                                                               | 23.54 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 7.76                                                                              | 7.45                                                                              | 9.17                                                                              | 15.51                                                                             | N/A                                                                               | 16.93                                                                               | 16.93                                                                               | N/A                                                                                 | 18.34                                                                               | N/A   |
| 80° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 4.59                                                                              | 4.21                                                                              | 6.00                                                                              | 9.18                                                                              | 9.18                                                                              | 10.59                                                                               | 10.59                                                                               | 18.36                                                                               | 12.01                                                                               | 24.47 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 8.06                                                                              | 7.79                                                                              | 9.48                                                                              | 16.12                                                                             | N/A                                                                               | 17.54                                                                               | 17.54                                                                               | N/A                                                                                 | 18.95                                                                               | N/A   |
| 90° Tilt                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |
| 12                                                                                             | 45.3 lbs.<br>[20.6kg]                                                             | 4.64                                                                              | 4.26                                                                              | 6.06                                                                              | 9.29                                                                              | 9.29                                                                              | 10.70                                                                               | 10.70                                                                               | 18.58                                                                               | 12.12                                                                               | 24.77 |
| 24                                                                                             | 80.5 lbs.<br>[36.6kg]                                                             | 8.14                                                                              | 7.89                                                                              | 9.56                                                                              | 16.29                                                                             | N/A                                                                               | 17.70                                                                               | 17.70                                                                               | N/A                                                                                 | 19.12                                                                               | N/A   |

Note: Not for use with aluminum tenons

**Tenon EPA**

| Part Number | EPA  |
|-------------|------|
| PB-1A*      | None |
| PB-2A*      | 0.82 |
| PB-3A*      | 1.52 |
| PB-4A*[90]  | 1.11 |
| PB-4A*[180] | 2.22 |
| PB-2R2.375  | 0.92 |
| PB-3R2.375  | 1.62 |
| PB-4R2.375  | 2.32 |
| PW-1A3**    | 0.47 |
| PW-2A3**    | 0.94 |
| WM-2        | 0.08 |
| WM-2L       | 0.13 |
| WM-4L       | 0.32 |
| EHO-UNV     | 0.22 |

\* 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-4A\*[90] – 90° Quad

PB-2A\* – 180° Twin

PB-4A\*[180] – 180° Quad

PB-3A\* – 180° Triple

**Wall Mount Brackets**

- Mounts to wall or roof

WM-2 – Horizontal

WM-4L – Extended L-Shape

WM-2L – Extended Horizontal

**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-4R2.375 – Quad

PB-3R2.375 – Triple

**Mid-Pole Bracket**

- Mounts to square pole

PW-1A3\*\* – Single

PW-2A3\*\* – Double

**Direct Mount Bracket**

- Mounts to minimum 4" (102mm) round or square; aluminum or steel pole or can be surface-mounted directly to a vertical or horizontal surface

- For use with HV mount only

- See Direct Mount Configurations table below

- Poles must be field-drilled for direct mount

EHO-UNV

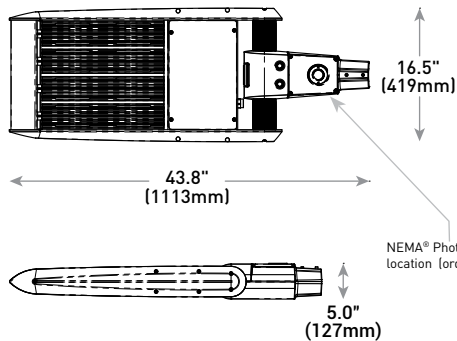
† Refer to the [Bracket and Tenons spec sheet](#) for more details

**Direct Mount Configurations**

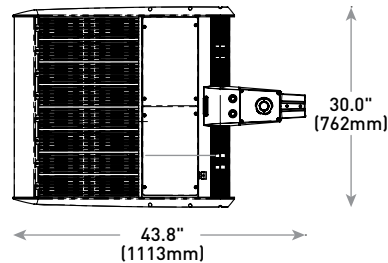
| Compatibility with EHO-UNV Direct Mount Bracket |         |          |         |          |         |
|-------------------------------------------------|---------|----------|---------|----------|---------|
| LED Count [x10]                                 | 2 @ 90° | 2 @ 180° | 3 @ 90° | 3 @ 120° | 4 @ 90° |
| <b>4" Square</b>                                |         |          |         |          |         |
| 12                                              | ✓       | ✓        | N/A     | N/A      | N/A     |
| 24                                              | ✓       | ✓        | N/A     | N/A      | N/A     |
| <b>4" Round</b>                                 |         |          |         |          |         |
| 12                                              | N/A     | ✓        | N/A     | N/A      | N/A     |
| 24                                              | N/A     | ✓        | N/A     | N/A      | N/A     |
| <b>5" Square</b>                                |         |          |         |          |         |
| 12                                              | ✓       | ✓        | ✓       | N/A      | ✓       |
| 24                                              | ✓       | ✓        | ✓       | N/A      | ✓       |
| <b>5" Round</b>                                 |         |          |         |          |         |
| 12                                              | N/A     | ✓        | N/A     | ✓        | N/A     |
| 24                                              | N/A     | ✓        | N/A     | ✓        | N/A     |
| <b>6" Square</b>                                |         |          |         |          |         |
| 12                                              | ✓       | ✓        | ✓       | N/A      | ✓       |
| 24                                              | ✓       | ✓        | ✓       | N/A      | ✓       |
| <b>6" Round</b>                                 |         |          |         |          |         |
| 12                                              | ✓       | ✓        | ✓       | ✓        | ✓       |
| 24                                              | ✓       | ✓        | ✓       | ✓        | ✓       |

**HV Mount** (shown in horizontal position)

**120 LED**



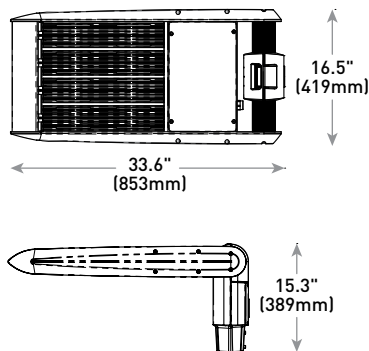
**240 LED**



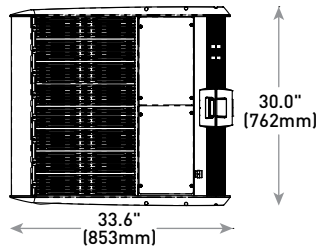
| LED Count (x10) | Weight             |
|-----------------|--------------------|
| 12              | 45.3 lbs. (20.5kg) |
| 24              | 80.5 lbs. (36.5kg) |

**HV Mount** (shown in vertical position)

**120 LED**



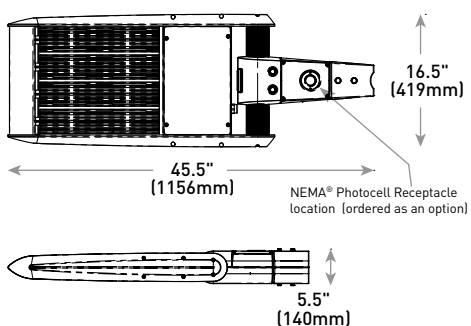
**240 LED**



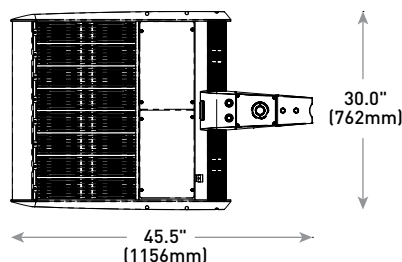
| LED Count (x10) | Weight             |
|-----------------|--------------------|
| 12              | 45.3 lbs. (20.5kg) |
| 24              | 80.5 lbs. (36.5kg) |

**Direct Mount Bracket** (accessory sold separately)  
Not for use with R option.

**120 LED**



**240 LED**



| LED Count (x10) | Weight             |
|-----------------|--------------------|
| 12              | 45.3 lbs. (20.5kg) |
| 24              | 80.5 lbs. (36.5kg) |