

# Cree Edge™ High Output

LED Area & Flood Luminaire  
XAK Series IP66 - Direct/Surface Mount - Optic 5 (QV)

## Product Description

Cree Edge™ High Output luminaire is designed to deliver high lumen packages with precise optical control. Upgrade friendly unit features a slim, low profile design that minimizes wind load requirements. Luminaire mounts directly to 127mm or larger customer-drilled square poles using M8x30 mounting hardware and anchor plate provided. Luminaire can also be surface-mounted and wired by removing two available NPT plugs and mounted directly to vertical or horizontal surfaces. Also, available with Cree TrueWhite Technology, the Cree Edge High Output helps to beautifully render true colors and deliver value beyond energy savings.

## Performance Summary

Utilizes BetaLED® Technology

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Patented NanoOptic® Product Technology

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

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

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

## Accessories

### Field Installed Accessories

#### XA-BRDSPKXAK12

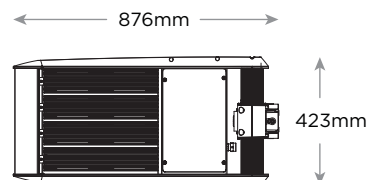
- Bird Spikes for 120 LED luminaires

#### XA-BRDSPKXAK24

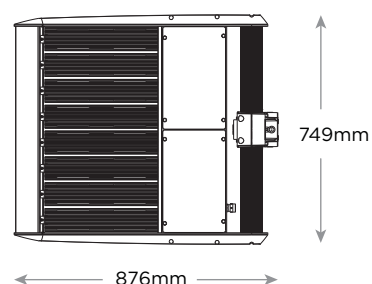
- Bird Spikes for 240 LED luminaires



120 LED Luminaire



240 LED Luminaire



Side View



## Ordering Information

Example: XAKD512E+4DYT9

| XAK     | D                                                                                                                                                                                                                                                                                                                                                                                        | 5         | 12              | E      | +                | 4         | D               | Y                                         | T                                                                                               | 9                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|--------|------------------|-----------|-----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Product | Mounting                                                                                                                                                                                                                                                                                                                                                                                 | Optic     | LED Count (x10) | Series | Insulation Class | Voltage   | Drive Current   | Options                                   | Color Options                                                                                   | Color Temperature                                                                                                                              |
| XAK     | D<br>Direct/Surface mount<br>Downlight<br>U<br>Direct/Surface mount<br>Uplight<br>5<br>Direct/Surface mount<br>Downlight - LEFT<br>(relative to mounting)<br>A<br>Direct/Surface mount<br>Downlight - RIGHT<br>(relative to mounting)<br>6<br>Direct/Surface mount<br>Uplight - LEFT<br>(relative to mounting)<br>B<br>Direct/Surface mount<br>Uplight - RIGHT<br>(relative to mounting) | 5<br>(QV) | 12<br>24        | E      | +                | 4<br>230V | D 700mA<br>X 1A | Y 1-10V Dimming<br>- Control<br>by others | S<br>Silver<br>(Standard)<br>T<br>Black<br>Z<br>Bronze<br>B<br>Platinum<br>Bronze<br>W<br>White | No code 5700K<br>- Minimum 70 CRI<br>9 5000K<br>- Minimum 90 CRI<br>- Utilizes Cree<br>TrueWhite®<br>Technology<br>7 4000K<br>- Minimum 70 CRI |

† See [www.cree-europe.com/en/prodotti-gar.php](http://www.cree-europe.com/en/prodotti-gar.php) for warranty terms



[www.cree-europe.com](http://www.cree-europe.com)



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## LED Area & Flood Luminaire XAK Series IP66 - Direct/Surface Mount - Optic 5 (QV)

### Product Specifications

#### BETALED TECHNOLOGY®

Cree Edge™ High Output luminaires are powered by BetaLED® Technology delivering outstanding illumination, lasting performance and optimum energy efficiency. Patented NanoOptic® product technology optimizes target illumination, performance and offers flexibility with over 20 optic choices.

#### CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance heat sinks
- Comes with two NPT plugs for surface wiring
- Extruded aluminum adjustable mounting shaft
- Luminaire is adjustable 90° up from horizontal in 5° increments
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is Silver. Bronze, Black, White, and Platinum Bronze are also available

#### ELECTRICAL SYSTEM

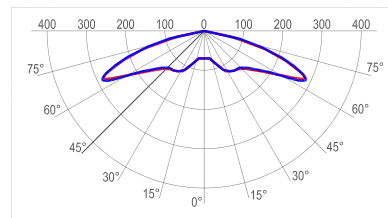
- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

#### REGULATORY & VOLUNTARY QUALIFICATIONS

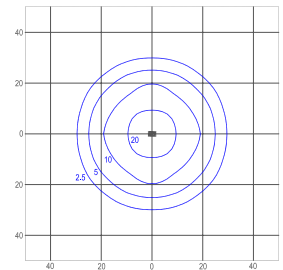
- CE Listed
- Enclosure rated IP65 per IEC 60529
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117

### Photometry

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



cd/klm  
C0 - C180 C90 - C270 C45 - C225



lux

ITL Test Report #: 78580

XAKD512E+4X\*\*7  
Mounting Height: 10m  
Initial Delivered Lumens: 32328

#### IES Files

To obtain an IES file specific to your project, please consult [www.cree-europe.com](http://www.cree-europe.com)

### Weight and Maximum Wind Area

| LED Count (x10) | Weight | Lateral Surface Wind Exposed |
|-----------------|--------|------------------------------|
| 12              | 20.4kg | 0.13 m <sup>2</sup>          |
| 24              | 36.3kg |                              |

### Lumen Output, Electrical, and Lumen Maintenance Data

| 5 (QV) Distribution  |                           |                            |                           |                            |                           |                            |                       |                   |                                                               |
|----------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|-----------------------|-------------------|---------------------------------------------------------------|
| LED Count (x10)      | 5700K                     |                            | 5000K                     |                            | 4000K                     |                            | System Watts 120-277V | TOTAL CURRENT (A) | 50K Hours Projected Lumen Maintenance Factor @ 15°C (59°F)*** |
|                      | 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 |                       | 230V              |                                                               |
| 700mA @ 25°C (77°F)  |                           |                            |                           |                            |                           |                            |                       |                   | 91%                                                           |
| 12                   | 24325                     | B5 U1 G3                   | 18691                     | B4 U1 G2                   | 23599                     | B5 U1 G3                   | 267                   | 1.25              |                                                               |
| 24                   | 48651                     | B5 U1 G4                   | 37381                     | B5 U1 G4                   | 47199                     | B5 U1 G4                   | 533                   | 2.53              |                                                               |
| 1000mA @ 25°C (77°F) |                           |                            |                           |                            |                           |                            |                       |                   | 87%                                                           |
| 12                   | 33323                     | B5 U1 G4                   | 25604                     | B5 U1 G3                   | 32328                     | B5 U1 G4                   | 416                   | 1.90              |                                                               |
| 24                   | 66645                     | B5 U1 G5                   | 51207                     | B5 U1 G5                   | 64656                     | B5 U1 G5                   | 831                   | 3.79              |                                                               |

\* Effective flux. Actual production yield may vary between -4 and +10% of initial delivered lumens.

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt.

\*\*\* For recommended lumen maintenance factor data see TD-13. Calculated L70 based on 6,000 hours LM-80-08 testing: > 150,000 hours.