

# Cree Edge™ High Output

LED Area & Flood Luminaire  
XAK Series IP66 - Adjustable Arm Mount - Optic 2 (TM)

## 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 and rugged die cast aluminum adjustable arm that mounts to a vertical 60-76mm O.D. minimum 95mm tall tenon. 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

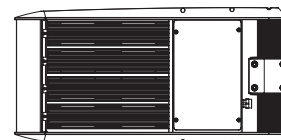
#### XA-BRDSPKXAK24

- Bird Spikes for 240 LED luminaires



120 LED Luminaire

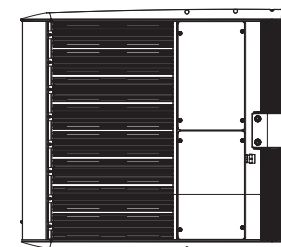
902mm



423mm

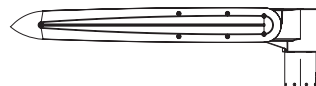
240 LED Luminaire

902mm



749mm

Side View



108mm

## Ordering Information

Example: XAK3212E+4DYT9

XAK	3	2	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	3 Adj Slip fitter Downlight 7 Adj Slip fitter Uplight 2 Adj Slip fitter Downlight - LEFT (relative to mounting) C Adj Slip fitter Downlight - RIGHT (relative to mounting) 4 Adj Slip fitter Uplight - LEFT (relative to mounting) F Adj Slip fitter Uplight - RIGHT (relative to mounting)	2 (TM)	12 24	E	+	4 230V	D 700mA X 1A	Y 1-10V Dimming - Control by others	S Silver (Standard) T Black Z Bronze B Platinum Bronze W White	No code 5700K - Minimum 70 CRI 9 5000K - Minimum 90 CRI - Utilizes Cree TrueWhite® Technology 7 4000K - Minimum 70 CRI

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

## LED Area & Flood Luminaire XAK Series IP66 - Adjustable Arm Mount - Optic 2 (TM)

### 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
- Adjustable mounting arm is rugged die cast aluminum and mounts to 60-76mm O.D. minimum 95mm tall vertical tenon
- 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. Standard is Silver. Bronze, Black, White, and Platinum Bronze are also available

#### ELECTRICAL SYSTEM

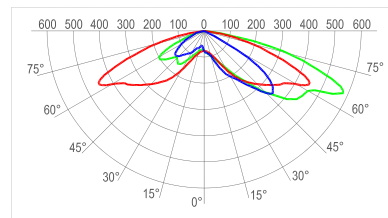
- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

#### REGULATORY & VOLUNTARY QUALIFICATIONS

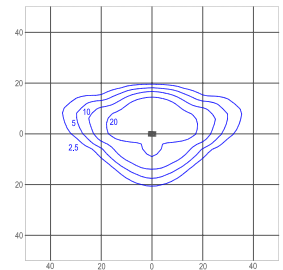
- CE Listed
- Enclosure rated IP65 per IEC 60529
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt 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 — C15 - C195



lux

ITL Test Report #: 77643

XAK3212E+4X\*\*7  
Mounting Height: 10m  
Initial Delivered Lumens: 32284

#### 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

2 (TM) 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)									
12	24293	B3 U1 G3	18665	B3 U1 G3	23567	B3 U1 G3	267	1.25	
24	48585	B5 U1 G4	37331	B4 U1 G4	47135	B5 U1 G4	533	2.53	
1000mA @ 25°C (77°F)									
12	33278	B4 U1 G4	25569	B3 U1 G3	32284	B4 U1 G4	416	1.90	
24	66555	B5 U1 G5	51138	B5 U1 G4	64568	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.