

# Cree Edge™ High Output

LED Area & Flood Luminaire  
XAK Series IP66 - Direct/Surface Mount - Optic C (25°)

## 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

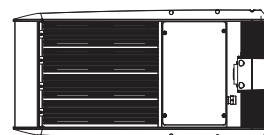
#### XA-BRDSPKXAK24

- Bird Spikes for 240 LED luminaires



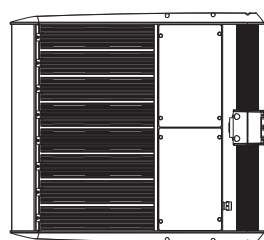
120 LED Luminaire

876mm



423mm

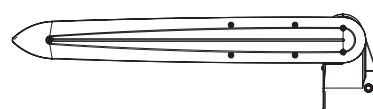
240 LED Luminaire



749mm

876mm

Side View



235mm

## Ordering Information

Example: XAKDC12E+4DYT9

XAK	D	C	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 Direct/Surface mount Downlight U Direct/Surface mount Uplight 5 Direct/Surface mount Downlight - LEFT (relative to mounting) A Direct/Surface mount Downlight - RIGHT (relative to mounting) 6 Direct/Surface mount Uplight - LEFT (relative to mounting) B Direct/Surface mount Uplight - RIGHT (relative to mounting)	C (25°)	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



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



Ph. +39 055 343081 Fax +39 055 34308200



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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

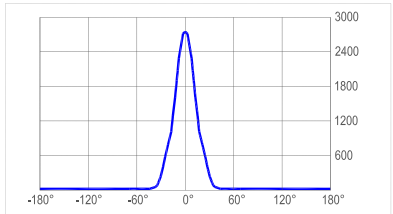
- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

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  
CO - C180

XAKDC12E+4X\*\*7  
ITL Test Report #: 78520  
Initial Delivered Lumens: 38828

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

C (25°) 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*	Initial Delivered Lumens*	Initial Delivered Lumens*		230V	
700mA @ 25°C (77°F)						91%
12	29217	22449	28345	267	1.25	
24	58434	44898	56689	533	2.53	
1000mA @ 25°C (77°F)						87%
12	40023	30752	38828	416	1.90	
24	80046	61504	77657	831	3.79	

\* Effective flux. Actual production yield may vary between -4 and +10% of initial delivered lumens.  
\*\*\* For recommended lumen maintenance factor data see TD-13. Calculated L70 based on 6,000 hours LM-80-08 testing: > 150,000 hours.

