

Cree Edge™ High Output

LED Area & Flood Luminaire
XAK Series - Direct/Surface Mount - Optic Z (70°)

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

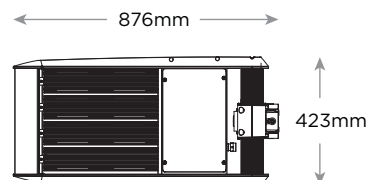
- Bird Spikes for 120 LED luminaires

XA-BRDSPKXAK24

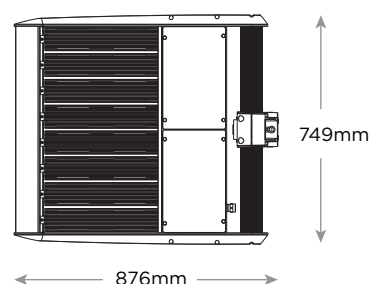
- Bird Spikes for 240 LED luminaires



120 LED Luminaire



240 LED Luminaire



Side View



Ordering Information

Example: XAKDZ12E+4DYT9

XAK	D	Z	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)	Z (70°)	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 for warranty terms

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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

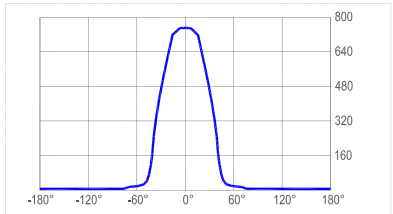
- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

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

XAKDZ12E+4X**7
ITL Test Report #: 78522
Initial Delivered Lumens: 33030

IES Files
To obtain an IES file specific to your project, please consult www.cree-europe.com

Weight and Maximum Wind Area

LED Count (x10)	Weight	Lateral Surface Wind Exposed
12	20.4kg	0.13 m ²
24	36.3kg	

Lumen Output, Electrical, and Lumen Maintenance Data

Z (70°) 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)						
12	24854	19097	24112	267	1.25	91%
24	49707	38193	48224	533	2.53	
1000mA @ 25°C (77°F)						
12	34046	26160	33030	416	1.90	87%
24	68092	52319	66060	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.

