

# Cree Edge™ High Output

XAK Series  
High-Bay Luminaire - Optic 3 (PR)

## Product Description

The Cree Edge™ High Output High-Bay luminaire is designed to deliver high lumen packages with precise optical control. Upgrade-friendly unit features a slim, low-profile design. Luminaire mounts directly to solid surface with stainless steel mounting brackets and includes a 1m cord for mounting to customer supplied connectors. Also available with Cree TrueWhite® Technology, the Cree Edge™ High Output High-Bay helps to beautifully render true colors and deliver value beyond savings in energy use.

## Performance Summary

Utilizes BetaLED® Technology

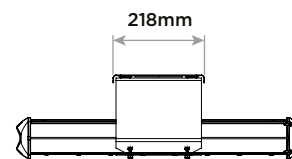
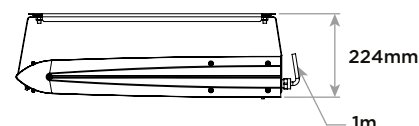
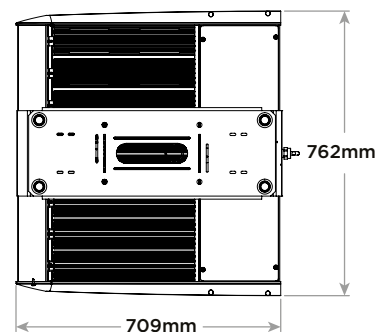
Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Patented NanoOptic® Product Technology

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

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

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



## Ordering Information

Example: XAKT312E+4DYT9

XAK	T	3	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	T Surface/Direct mount	3 (PR)	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

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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 and performance and offers flexibility with over 20 optic choices.

CONSTRUCTION & MATERIALS

- Slim, low profile
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance heat sinks
- Includes heavy gauge stainless steel mounting brackets (non-painted) designed for direct mount to solid surfaces and includes a 1m cord for mounting to customer supplied connectors
- 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

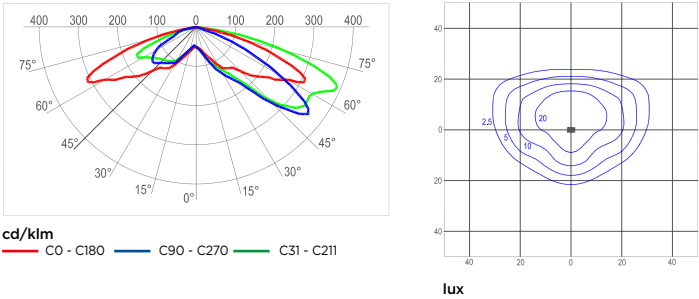
- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE Listed
- Enclosure rated IP65 per IEC 60529
- Pending certification 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.



ITL Test Report #: 78638

XAKT312E+4X\*\*7  
Mounting Height: 10m  
Initial Delivered Lumens: 30916

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

Weight

LED Count (x10)	Weight
12	20.4kg
24	36.3kg

Lumen Output, Electrical, and Lumen Maintenance Data

3 (PR) 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	23263	B4 U1 G4	17874	B3 U1 G3	22568	B3 U1 G3	267	1.25	
24	46526	B5 U1 G5	35748	B4 U1 G4	45137	B4 U1 G4	533	2.53	
1000mA @ 25°C (77°F)									
12	31867	B4 U1 G4	24485	B3 U1 G3	30916	B4 U1 G4	416	1.90	
24	63734	B5 U1 G5	48970	B5 U1 G5	61831	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.

