CXB Series

LED High-Bay Luminaire - 16" Round

Product Description

The CXB LED High-Bay luminaire delivers 23,000 lumens in distributions designed for general high-bay lighting. With exceptional lifetimes rated up to 70,000 hours, zero-restrike time and a compact, lightweight construction, the CXB Series is a direct replacement for incumbent HID and MH high-bay light sources that provides additional benefits of energy savings, enhanced safety and significantly reduced relamp maintenance cost.

Performance Summary

Delivered Light Output: 23,000 lumens

Input Power: 230 watts

CRI: 70

CCT: 4000K

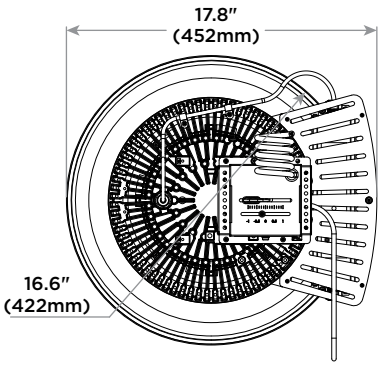
Input Voltage: 120-277 VAC

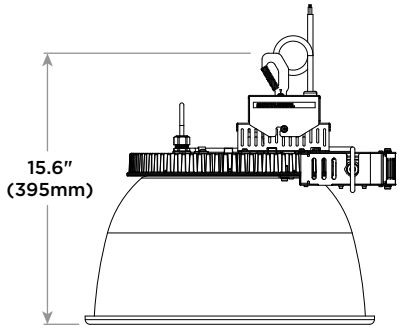
Limited Warranty†: 10 years

Lifetime: Designed to last up to 70,000 hours

Mounting: J-Box, pendant, hook & cord

Weight: Maximum 14 lbs (6.4kg)





Accessories

Galvanized Safety Cables **SC-5** - 5.0' (1.5m) Cable **SC-10** - 10.0' (3.0m) Cable	**Twist Lock Plug - 15A** **L5-15** - 120V - Compatible w/NEMA® 5-15 Receptacle **L6-15** - 240V - Compatible w/NEMA® 6-15 Receptacle **L7-15** - 277V - Compatible w/NEMA® 7-15 Receptacle

Ordering Information

Example: CXB-A-16 + CXB-23L-40K-U-1-HC

Fully assembled luminaire is composed of two components that must be ordered separately:

Light Engine + Reflector

Reflector (Light Engine must be ordered separately)

CXB-A-16
- 16" (406mm) Matte Spun Aluminum

QUICK SHIP™

Click below to select Quick Ship products

CXB-A-16

For full list of Cree Quick Ship products visit **www.cree.com/lighting/quickship**

CXB	23L	40K	U	1	
Light Engine (Reflector must be ordered separately)					
Product	**Lumen Output**	**Color Temp**	**Voltage**	**Driver Mount**	**Mountings**
CXB	**23L** 23,000 Lumens - 100 LPW	**40K** 4000 Kelvin	**U** 120-277 Volt	**1** Single Side Mount	**HC** Hook & Cord **JP** J-Box or Pendant Mount

† See www.cree.com/lighting/products/warranty for warranty terms

Rev. Date:04/10/2014

US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum heatsink
- Low-profile, lightweight design provides ease of installation
- Mounting choices of direct J-Box/pendant and hook & cord
- JP Mount mounts directly over existing 4" (102mm) single gang square, rectangular and octagonal junction boxes for direct mount
- JP Mount has provision to accept ¾ IP pendant (by others)
- HC Mount is provided with spring lock hook for mounting and factory installed 6' (1.8m) power cord; plug by others
- Factory calibrated to hang straight

OPTICAL SYSTEM

- 16" (406mm) Anodized Matte Aluminum reflector
- Anodized Matte Aluminum reflector provides maximum efficiency
- LED system delivers proper uniformity & spacing
- Tempered glass protects LEDs against dust and dirt

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply
- **Input Voltage:** 120–277V, 50/60Hz
- **Power Factor:** > 0.9
- **Total Harmonic Distortion:** <20%
- **Temperature rating:** Designed to operate in temperatures 0°C– 40°C

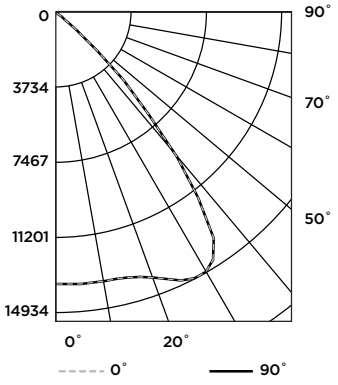
REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus listed
- Suitable for damp locations
- DLC qualified
- IP54 rated driver
- IP65 rated LED optics

Photometry

CXB-A-16 W/CXB-23L-40K BASED ON CESTL REPORT TEST #: PL03188-001

Fixture photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.



Coefficients Of Utilization - Zonal Cavity Method

RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	113	110	107	104
2	106	100	96	92
3	99	92	86	82
4	93	85	78	73
5	87	78	71	66
6	82	72	65	60
7	77	66	59	54
8	72	61	54	49
9	68	57	50	45
10	64	53	46	42

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m2)

Vertical Angle \ Horizontal Angle	0°	45°	90°
45°	51300	51300	51300
55°	6901	6901	6901
65°	2545	2545	2545
75°	1185	1185	1185
85°	566	566	566

Zonal Lumen Summary

Zone	Lumens	% Lamp	Luminaire
0-30	11984.8	N/A	48.9%
0-40	20090.3	N/A	81.9%
0-60	24321.9	N/A	99.2%
0-90	24523.1	N/A	100%
0-180	24523.1	N/A	100%

Reference **www.cree.com/lighting** for detailed photometric data.

CXB Series Lumen Maintenance[1]

Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Calculated[3] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
0˚C (32˚F)	1.05	0.98	0.93	0.88	0.83
5˚C (41˚F)	1.04	0.97	0.92	0.87	0.82
10˚C (50˚F)	1.03	0.96	0.91	0.86	0.81
15˚C (59˚F)	1.02	0.95	0.90	0.85	0.81
20˚C (68˚F)	1.01	0.95	0.89	0.84	0.80
25˚C (77˚F)	1.00	0.94	0.88	0.84	0.79
30˚C (86˚F)	0.99	0.93	0.88	0.83	0.78
35˚C (95˚F)	0.98	0.92	0.87	0.82	0.77
40˚C (104˚F)	0.97	0.91	0.86	0.81	0.77

[1] Lumen maintence values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

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