Rev. Date: V6 07/29/2024

Product Description

The HXB Series LED High-Bay luminaire delivers 70,000 lumens with illumination performance to allow one-for-one replacement of 750W and 1000W HID luminaires. With exceptional rated lifetimes and operating temperatures, the HXB deliveries industry-leading lumens per watt while reducing maintenance in the toughest environments.

Applications: Industrial, manufacturing, warehouse, retail, convention centers, and arenas

Performance Summary

Initial Delivered Lumens: 70,000

Efficacy: Up to 144 LPW

CRI: 70 or 80+

CCT: 3500K, 4000K, or 5000K

Mounting: Hook and cord or pendant

Input Voltage: 120-277 VAC or 347-480 VAC (without step-down transformer)

Dimming: 0-10V dimming to 10% (standard)

Operating Temperature Range: -40°C to +60°C (-40°F - +140°F)

Lumen Maintenance: $L_{70} > /= 100,000$ hours at +60°C (140°F)

Limited Warranty[†]: 10 years for luminaire; up to 5 years for Synapse[®] accessories;

1 year for luminaire accessories

Assembled in the USA by Cree Lighting from US and imported parts

† See https://www.creelighting.com/resources/warranties for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed Synapse® SimplySnap 10V Interface DIM10-220F Anti-Spin Adaptor HXB-AS 120V-277V - Anti-spin accessory for hook and cord mounting configuration - Requires other Synapse components to complete system · Use to retro fit controls to existing HXB 10V projects - Refer to DIM10-220F spec sheet for details Field-Installed NEMA® Plugs AP-515P AP-L615P AP-L2420P - 20 amp 347V Twist Lock Plug - 15 amp 120V Straight Blade Plug - 15 amp 240V Twist Lock Plug AP-L515P AP-L715P AP-L820P - 15 amp 120V Twist Lock Plug - 15 amp 277V Twist Lock Plug - 20 amp 480V Twist Lock Plug

Reflectors

HXB-GS30-OP: White Opaque Reflector

HXB-GS30-WH: Clear Translucent Reflector

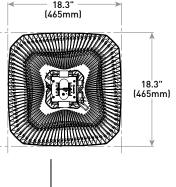
- All reflectors are 30" (762mm) impact-resistant polycarbonate
- Single pack SKUs ship as one reflector per box Note: Not recommended for use in gymnasium applications

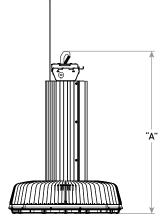
HXB-GS30-OP-MP: White Opaque Reflector HXB-GS30-WH-MP: Clear Translucent Reflector

- Multi-pack SKUs require a minimum order of 4 pieces or more, and ship together in as few boxes as possible

Shown w/Hook 70L Lumen Package and White Opaque Reflector Accessory w/Uplight







DIM "A"	Weight
26.1" (664mm)	60 lbs. (27.2kg)

Ordering Information

Example: HXB-C-UV-70L-M-35K-7-UL-SV

нхв	С	UV						sv
Family	Series	Mounting	Lumen Package*	Optic	сст	CRI	Voltage	Finish
нхв	С	UV Universal Mount: hook and cord with 6ft cord, adaptor plate for pendant	70L 70,000 lumens	M Medium optic; 1.4SC	35K 3500K 40K 4000K 50K 5000K	7 70 CRI 8 80 CRI	UL 120-277V UH 347-480V	SV Silver

^{*} Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT and reflector/lens selection. Refer to Delivered Lumens & Electrical Data and Reflector Illumination Performance tables









Website: creelighting.com US: (800) 236-6800 Canada: (800) 473-1234

Product Specifications

CONSTRUCTION & MATERIALS

- · Aluminum bonded zipper fin heatsink
- · IP65 rated optics
- · Mounting choices of pendant or hook and cord
- Pendant mount has provision to accept ¾ IP pendant (by others)
- Hook mount is provided with factory installed spring lock hook for mounting and factory installed 6' (1.8m) 16/3 AWG white power cord
- Factory calibrated to hang straight; alignment required for pendant mount
- Includes 39" (991mm) tether to secure luminaire to building structure
- Not intended for use in environments containing airborne corrosive agents such as chemical solvents, cleaners, or cutting fluids

OPTICAL SYSTEM

Fresnel lenslet optics for medium (1.4SC) lighting applications

ELECTRICAL SYSTEM

• Input Voltage: 120-277V or 347-480V 50/60Hz

• Power Factor: > 0.9 at full load

• Total Harmonic Distortion: < 20% at full load

 Transient Protection: ANSI C136.2 6kV/3kA surge protection, tested in accordance with IEEE/ANSI C62.41.2

• Designed with 0-10V dimming capabilities to 10%

• 10V Source Current: 0.30mA

• Operating Temperature Range: -40°C - +60°C (-40°F - +140°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- · Suitable for damp locations
- Fittings used for mounting shall be suitable for the maximum weight to be supported
- Customer supplied J-boxes (outlet boxes) used for mounting shall be listed and marked for the maximum weight to be supported
- Requires minimum 90°C supply conductors
- Designed for downlight applications only
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details
- Assembled in the USA by Cree Lighting from US and imported parts
- Some configurations meet requirements of BAA and/or BABA. Consult factory when needed for a project: www.creelighting.com/BAA-BABA
- CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

HXB Series Ambient Adjusted Lumen Maintenance ¹								
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF			
25°C (77°F)	1.00	0.95	0.94	0.94	0.93			
30°C (86°F)	0.99	0.94	0.93	0.93	0.92			
35°C (95°F)	0.98	0.93	0.92	0.92	0.91			
40°C (104°F)	0.97	0.92	0.91	0.91	0.90			
45°C (113°F)	0.96	0.91	0.90	0.90	0.89			
50°C (122°F)	0.95	0.90	0.89	0.89	0.88			
55°C (135°F)	0.94	0.89	0.89	0.88	0.87			
60°C (140°F)	0.93	0.88	0.88	0.87	0.86			

¹ Lumen maintenance values at 25 °C (77 °F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Reflector Illumination Performance							
Reflector	% of Uplight	Lumen Multiplier					
HXB-GS30-WH Clear Translucent	0.3%	0.96					
HXB-GS30-OP White Opaque	2.1%	0.96					

Reference http://lighting.cree.com/products/indoor/high-bay-low-bay/hxb-series for detailed photometric data. IES files include reflector multipliers

Note: Not recommended for use in gymnasium applications

HXB-GS30-WH





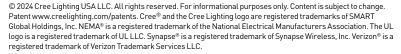


Reflector Weights	
Single Pack	10 lbs. (4.5kg)
Multi Pack	35 lbs. (15.9kg)

Delivered Lumens & Electrical Data*											
Lumen Package	CCT	Delivered Lumens** System Watts		Efficacy	Total Current (A)						
		70 CRI	80 CRI	120-480V	(LPW @ 70 CRI)	120V	208V	240V	277V	347V	480V
70L	3500K	66,600	62,300	485	137	4.13	2.42	2.09	1.81	1.40	1.02
	4000K	70,000	64,200		144						
	5000K	70,000	66,200		144						

^{*} Data provided at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%. Actual production yield may vary between -10 and +10% of initial delivered lumens

** Initial delivered lumen values based on luminaire without reflector. Refer to reflector Illumination Performance table for lumen multipliers when using reflector accessor



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² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.