

HB1

Modular LED High-Bay

Product Description

The HB1 Modular High Bay delivers a flexible solution for any commercial or industrial application, with its customizable LED light bar system and various precision lens optics packages. The modular advantage of this high performing fixture is the design flexibility of directing light exactly where you need it. The HB1 Modular LED High Bay handles mounting heights up to 80 feet and easily operates in a variety of applications, such as warehouses, manufacturing facilities, gymnasiums, arenas, sports complexes, showrooms, garages, hangars, and storage areas, making it an ideal choice.

Construction

- Aluminum housing with heat sink fins provides thermal management through natural convection.
- Modular LED light bar design offers 2 bar (over 14,000 lumens), 3 bar (over 22,000 lumens), 4 bar (over 29,000 lumens) and 6 bar (over 43,000 lumens) LED module configurations.
- Precision optics are durably constructed with an impact resistant polycarbonate PMMA acrylic lens.

Optical System

- Precision lens optic system optimizes illumination for open floor, racked or aisle way applications.
- Narrow to wide light distribution available with field upgradable lens and multiple photometric distributions of 32°, 54° and 62°, 121° (FWHM) degrees.

Electrical

- Long-life LED system coupled with electrical driver to deliver optimal performance with over 100 lumens per watt.
- Utilizes advanced high-powered LED technology with CCT of 4000K and 5000K.
- Thermally protected, high-efficiency Class 2 driver.
- Operating temperature rating of -10°F to 120°F (-23°C to 49°C)
- 10kA Surge protection standard
- Emergency battery backup available
- Input voltage of 120-277V or 347-480V for high voltage¹

PRODUCT INFORMATION

LED Type:	XM-L2
Projected L70	
LED Lifetime (Hrs):	>100,000
Input Voltage (V)	120-277VAC

	2-Bar	3-Bar	4-Bar	6-Bar
Power Draw (W):	141W	214.1W	284W	429W
Lumens (lm):	14,780	22,090	29,400	43,620

Ordering Information

See last page for a detailed ordering chart

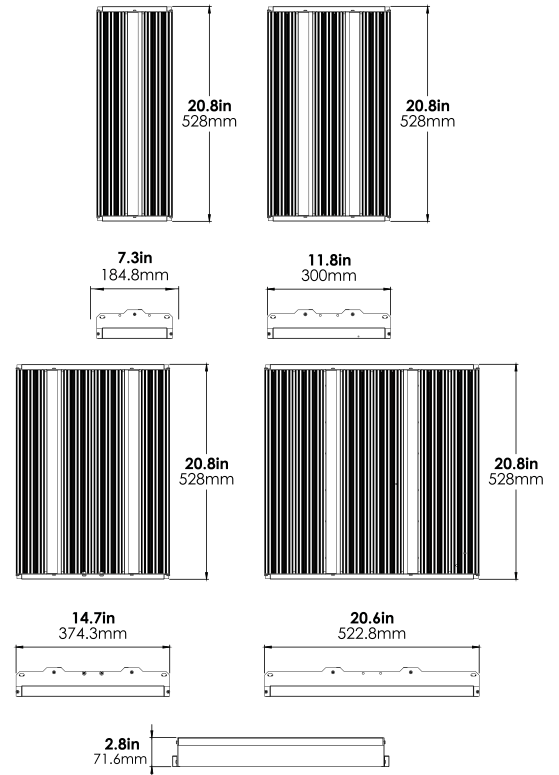
Project

Catalog

Type



Shown in 3-bar configuration



Medium

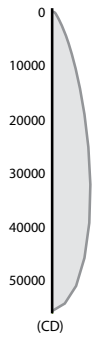


3 Bar 5000K Zonal Lumen Summary

Luminaire	5000K
Input Voltage (VAC)	120/277
System Level Power (W)	214.1
Delivered Lumens (Lm)	22,090
System Efficacy (Lm/W)	103
Correlated Color Temp (K)	4818
Color Rendering Index (CRI)	73

Zonal Lumen Summary**

Zone	Lumens	% of Luminaire
0-30	16,119	73.76%
0-40	18,383	84.12%
0-60	20,570	94.12%
0-90	21,854	100.00%
40-90	3,470	15.88%
60-90	1,284	5.88%
90-180	0	0.00%
0-180	21,854	100.00%



*Integrating sphere data
**Type C Goniophotometer data

Wide

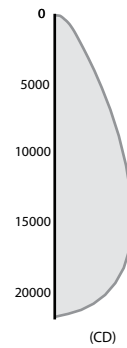


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Zonal Lumen Summary**

Zone	Lumens	% of Luminaire
0-30	13,380	62.25%
0-40	17,031	79.23%
0-60	20,084	93.43%
0-90	21,496	100.00%
40-90	4,465	20.77%
60-90	1,411	6.57%
90-180	0	0.00%
0-180	21,496	100.00%



*Integrating sphere data
**Type C Goniophotometer data

Wide Wide

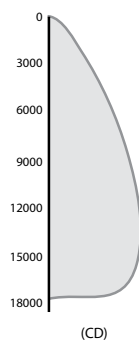


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Zonal Lumen Summary**

Zone	Lumens	% of Luminaire
0-30	13,082	59.78%
0-40	17,432	79.66%
0-60	20,641	94.32%
0-90	21,884	100.00%
40-90	4,451	20.34%
60-90	1,243	5.68%
90-180	0	0.00%
0-180	21,884	100.00%



*Integrating sphere data
**Type C Goniophotometer data

Ultra Wide

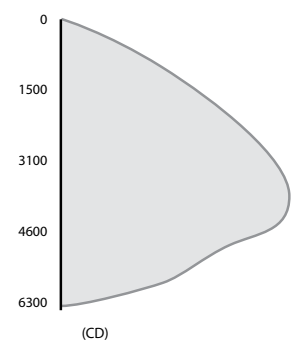


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Zonal Lumen Summary**

Zone	Lumens	% of Luminaire
0-30	5192	24.7%
0-40	8899	42.3%
0-60	17880	85.1%
0-90	21022	100%
40-90	12123	57.7%
60-90	3142	14.9%
90-180	0	0%
0-180	21022	100%



*Integrating sphere data
**Type C Goniophotometer data

Coefficients of Utilization

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CCWALL	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.09	1.07	1.13	1.10	1.07	1.05	1.11	1.08	1.06	1.03	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93
2	1.09	1.04	1.00	0.96	1.07	1.02	0.98	0.95	1.05	1.01	0.97	0.94	0.97	0.94	0.91	0.94	0.92	0.90	0.92	0.90	0.88	0.86
3	1.04	0.97	0.91	0.87	1.02	0.95	0.90	0.86	1.00	0.94	0.89	0.86	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.80
4	0.99	0.90	0.84	0.80	0.97	0.89	0.84	0.80	0.95	0.88	0.83	0.79	0.86	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.75
5	0.94	0.85	0.78	0.74	0.92	0.84	0.78	0.73	0.90	0.83	0.77	0.73	0.81	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.70
6	0.89	0.79	0.73	0.69	0.88	0.79	0.73	0.68	0.86	0.78	0.72	0.68	0.76	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.65
7	0.84	0.74	0.68	0.64	0.83	0.74	0.68	0.63	0.82	0.73	0.67	0.63	0.72	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.61
8	0.80	0.70	0.64	0.59	0.79	0.69	0.63	0.59	0.78	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.57
9	0.76	0.66	0.59	0.55	0.75	0.65	0.59	0.55	0.74	0.64	0.59	0.55	0.63	0.58	0.55	0.63	0.58	0.54	0.62	0.57	0.54	0.53
10	0.72	0.62	0.55	0.51	0.71	0.61	0.55	0.51	0.70	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.49

HB1 Ordering Information

⁶Example: HB1-3B-UNV-50K-WW-DSMPC

Series	# of Bars	Voltage	CCT's	Optics (° FWHM)	Dimming	Motion Sensor (Factory Install)	Pendant	Emergency	Cord	Plug Options ²
HB1	2B (2-Bar)	UNV (120-277)	40K ⁵ (4000K)	M (32)	(Blank) No Dimming	(Blank) No Motion Sensor	(Blank) No Pendant Kit	(Blank) No Emergency Backup	(Blank) No Cord	(Blank) No Plug
	3B (3-Bar)	HV ⁴ (347-480)	50K ⁵ (5000K)	W (54)	D ⁶ Dimmable	M Motion Sensor	P Pendant Kit	E Emergency Backup	C ⁷ Cord	1 (L515P) 15 amp 120V Straight Blade Plug
	4B (4-Bar)			WW (62)						2 (L515P) 15 amp 120V Twist Lock Plug
	6B (6-Bar)			UW (121)						3 (L615P) 15 amp 240V Twist Lock Plug
										4 (L720P) 20 amp 277V Twist Lock Plug
										5 (L2420P) 20 amp 347V Twist Lock Plug
										6 (L820P) 20 amp 480V Twist Lock Plug
										7 (L715P) 15 amp 277V Twist Lock Plug

Questions? Contact NICOR for info & pricing

² Plug option requires cord wiring option

⁴ HV Available on 2B, 3B, & 4B only

⁵ 4000K/80+ CRI - 5000K/70+ CRI

⁶ If dimming enabled, plug option not available

⁷ 6ft standard length cord (custom lengths available)