

90 Watt Full-Body LED High Bay

Prefix: LEDFHB90

The LEDFHB90 is a full-body, premium-performance LED high bay luminaire. It is designed to illuminate a wide variety of settings, including commercial, industrial & retail settings such as warehouses, manufacturing facilities, sporting venues and big-box retailers. With a powder coat painted, code gage steel housing, the LEDFHB90 provides high levels of durability and performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional HID high bay fixtures.



project:

fixture type:

catalog #:

quantity:



ORDERING GUIDE

EXAMPLE: LEDFHB90-4K-MVDIM

LEDFHB90	-	-	MVDIM	
MODEL			DRIVER	OPTIONS (ORDER SEPARATELY)
LEDFHB90 - 90 Watt Full-Body LED High Bay			MVDIM - Multi-Voltage Dimming Driver (120v-277v)	<p>LEDFHB90/95-CRLENS - Clear lens</p> <p>LEDFHB90/95-DIFLENS - Diffuse lens</p> <p>LEDFHB90/95-WG - Wire-guard kit</p> <p>LEDFHB-SMK4 - Surface-mount kit, 4 LED modules</p> <p>LEDFHB-PMK - Pendant-mount kit</p> <p>LEDFHB-CMK3 - Cable-mounting kit, 9' long</p> <p>LEDFHB-CMK5 - Cable-mounting kit, 15' long</p> <p>YM2501A - P.I.R. Occupancy Sensor</p>
		COLOR TEMPERATURE		
		<p>3K - 3000k*</p> <p>35K - 3500k*</p> <p>4K - 4000k</p> <p>5K - 5000k</p> <p>* Indicates special order</p>		

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 122,000 hours of operation with at least 70% of initial lumen output (L₇₀).**
- Delivers 12,420 lumens (138 lumens per watt, LPW) at 4000k, and 12,600 lumens (140 LPW) at 5000k.*
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.

- Powder coat painted steel housing.
- Easy installation in new construction or retrofit.
- Chain-mount kits (includes v-hooks and 1/8" thick, 36" long chain) are standard.
- Options include lenses (clear & diffused), wire-guard kits, surface-mounting kits, pendant-mounting kits, and cable-mounting kits.

WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- DLC premium approved (refer to Page 3 of this cut sheet). Always check the DLC-QPL for latest information. Complies with FCC Part 15, class A.

- Complies with IEEE C.62.41-1991, input transient protection (2.5kV).
- 5-year warranty of all electronics and housing.

MOUNTING OPTIONS

- Chain mounting with V-hooks is standard.
- Optional surface mounting kit provides attachment to flat ceilings.
- Optional pendant mounting kit provides pendant attachment to junction boxes.
- Optional cable mounting kits provide suspension at two lengths (i.e., 9' & 15').

* Contact factory for other color temperatures and lumen packages

** L₇₀ hours are IES TM-21-11 calculated hours.

Electrical Data

Model	Color Temp.	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage ²	Input Current			Power Factor	THD ³	L ₇₀ Hours ⁴
							120V	240V	277V			
LEDFHB90-4K-MVDIM	4000k	>80	12,420	90	138	120-277	0.75	0.38	0.32	>90%	<20%	122,000
LEDFHB90-5K-MVDIM	5000k	>80	12,600	90	140	120-277	0.75	0.38	0.32	>90%	<20%	122,000

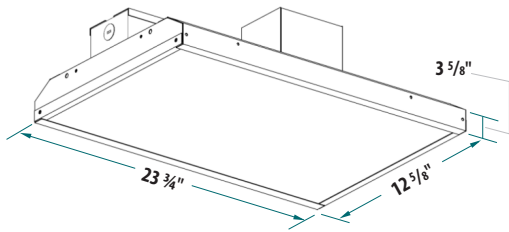
¹ Color rendering index.

² All 50-60Hz.

³ Total harmonic distortion.

⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

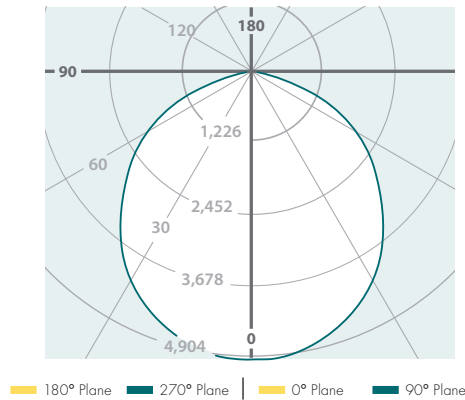
Dimensions



Photometric Data

LEDFHB90-5K-MVDIM

Candela Distribution Polar Plot

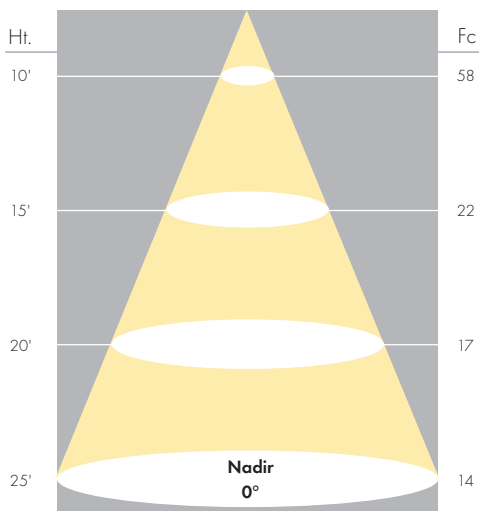


Maximum Candela = 4,904

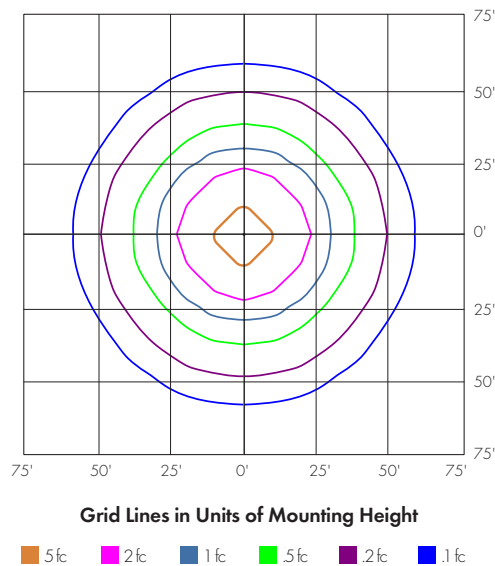
Candlepower Summary

	0°	90°
0°	4,904	4,904
10°	4,826	4,807
20°	4,606	4,552
30°	4,174	4,093
40°	3,534	3,434
50°	2,722	2,562
60°	1,832	1,663
70°	1,029	900
80°	396	326
90°	0	0

Cone of Light



Horizontal Footcandles



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0°-10°	465	3.7%
0°-20°	1,797	14.3%
0°-30°	3,809	30.2%
0°-40°	6,197	49.2%
0°-50°	8,553	67.9%
0°-60°	10,488	83.2%
0°-70°	11,791	93.6%
0°-80°	12,446	99.8%
0°-90°	12,600	100.0%
90°-180°	0	0.0%
0°-180°	12,600	100.0%

Luminaire – Quick Information Reference

RENOVA Catalog Number	Watts	Lumens	DLC	DLC ID #
LEDFHB90-3K-MVDIM	90	12,060	N/A	N/A
LEDFHB90-35K-MVDIM	90	12,240	N/A	N/A
LEDFHB90-4K-MVDIM	90	12,420	Premium	PAKNZ84F
LEDFHB90-5K-MVDIM	90	12,600	Premium	PD7ET994