

178 Watt Full-Body LED High Bay

Prefix: LEDFHB178

The LEDFHB178 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 LEDFHB178 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: LEDFHB78-4K-MVDIM

LEDFHB178	-	-	MVDIM	
MODEL			DRIVER	OPTIONS (ORDER SEPARATELY)
LEDFHB178 - 178 Watt Full-Body LED High Bay			MVDIM - Multi-Voltage Dimming Driver (120v-277v)	<ul style="list-style-type: none"> LEDFHB178/180-CRLENS - Clear lens LEDFHB178/180-DIFLENS - Diffuse lens LEDFHB178/180-WG - Wire-guard kit LEDFHB-SMK4 - Surface-mount kit, 4 LED modules LEDFHB-PMK - Pendant-mount kit LEDFHB-CMK3 - Cable-mounting kit, 9' long LEDFHB-CMK5 - Cable-mounting kit, 15' long YM2501A - P.I.R. Occupancy Sensor
		COLOR TEMPERATURE		
		<ul style="list-style-type: none"> 3K - 3000k* 35K - 3500k* 4K - 4000k 5K - 5000k <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 24,564 lumens (138 lumens per watt, LPW) at 4000k, and 24,920 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			
LEDFHB178-4K-MVDIM	4000k	>80	24,564	178	138	120-277	1.48	0.74	0.64	>90%	<20%	122,000
LEDFHB178-5K-MVDIM	5000k	>80	24,920	178	140	120-277	1.48	0.74	0.64	>90%	<20%	122,000

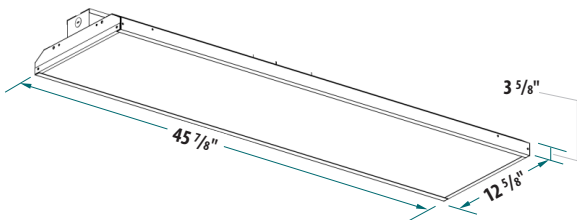
¹ Color rendering index.

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.

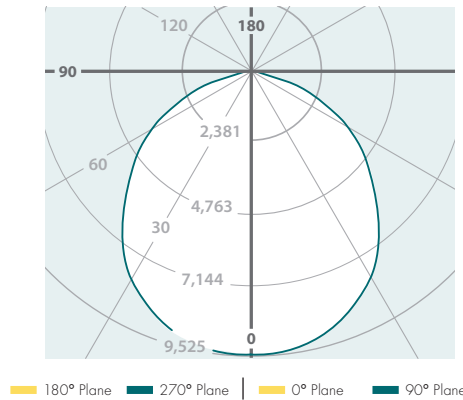
Dimensions



Photometric Data

LEDFHB178-5K-MVDIM

Candela Distribution Polar Plot

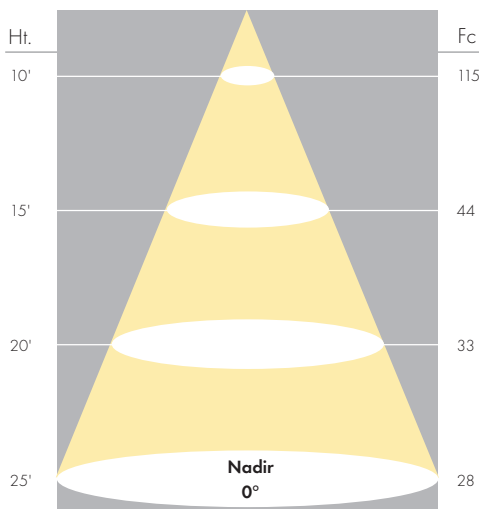


Maximum Candela = 9,525

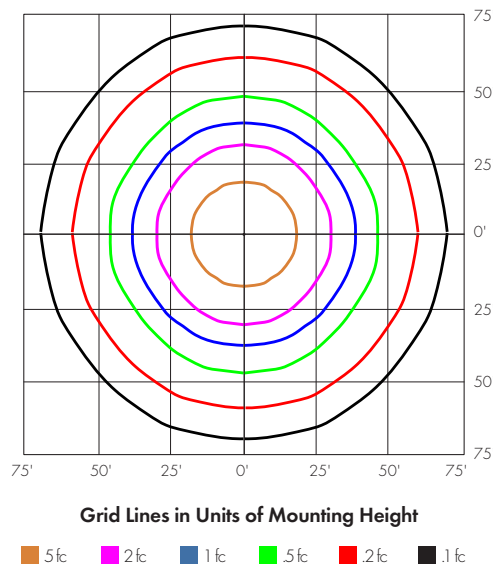
Candlepower Summary

	0°	90°
0°	9,525	9,525
10°	9,346	9,390
20°	8,863	8,894
30°	8,010	8,024
40°	6,793	6,731
50°	5,210	5,038
60°	3,477	3,265
70°	1,890	1,773
80°	664	656
90°	0	0

Cone of Light



Horizontal Footcandles



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 10°	903	3.6%
0° - 20°	3,495	14.0%
0° - 30°	7,430	29.8%
0° - 40°	12,123	48.6%
0° - 50°	16,791	67.4%
0° - 60°	20,657	82.9%
0° - 70°	23,271	93.4%
0° - 80°	24,599	98.7%
0° - 90°	24,920	100.0%
90° - 180°	0	0.0%
0° - 180°	24,920	100.0%

Luminaire – Quick Information Reference

RENOVA Catalog Number	Watts	Lumens	DLC	DLC ID #
LEDFHB178-3K-MVDIM	178	23,852	N/A	N/A
LEDFHB178-35K-MVDIM	178	24,208	N/A	N/A
LEDFHB178-4K-MVDIM	178	24,564	Premium	PEEEN4NB
LEDFHB178-5K-MVDIM	178	24,920	Premium	P7Q63Y4A