

# PDMHB SERIES 425 Watt Full-Body LED High Bay



Project:	
Type:	
Catalog #:	



Shown with optional diffuse lens

## STANDARD



The PDMHB425 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 plants, sporting venues and big-box retailers. With a painted, steel housing, the PDMHB425 provides high levels of durability and performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

## FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide 113,000 hours of operation with at least 70% of initial lumen output (L<sub>70</sub>).\*\*
- Delivers 57,439 lumens (135 lumens per watt, LPW) at 4000k, and 57,451 lumens (135 LPW) at 5000k.\*
- Universal 120-277 AC voltage (50-60Hz) is standard. Step-down transformers are required for 347-480V applications.
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted steel housing.
- Easy installation in new construction or retrofit.
- Chain-mount kits (includes v-hooks and 1/8" thick, 1-meter long chain) are standard.
- Options include lenses (clear & diffused), wire-guard kits surface-mounting kits, pendant-mounting kits, and cable-mounting kits.

\* Contact factory for other color temperatures and lumen packages.  
 \*\* L<sub>70</sub> hours are IES TM-21-11 calculated hours.

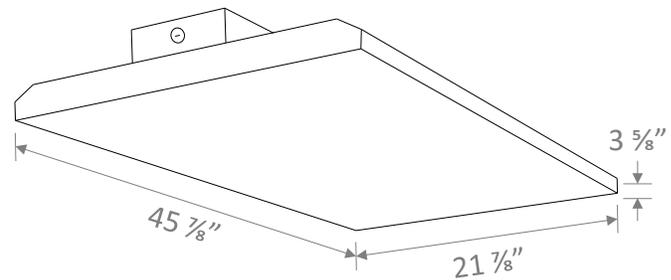
## WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- DLC premium approved.
- Complies with RoHS (Restriction on Hazardous Substances) requirements
- 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., 3 & 5 meters).

## DIMENSIONS



Weight: 26.0 lbs.

## ORDERING INFORMATION

Example: PDMHB425-4K-MVDIM + PDMHB425-CRLENS + PDMHB425-WG + PDMHB-SMK8

Model	Luminaire Watts	Luminaire Lumens	Lumens Per Watt	Color Temperature	Options (Order Separately)
PDMHB425-4K-MVDIM	426	57,439	135	4K = 4000k	PDMHB425-CRLENS = Clear lens
PDMHB425-5K-MVDIM	426	57451	135	5K = 5000k	PDMHB425-DIFLENS = Diffuse lens
					PDMHB425-WG = Wire-guard kit
					PDMHB-SMK8 = Surface-mount kit, 8 LED modules
					PDMHB-PMK = Pendant-mount kit
					PDMHB-CMK3 = Cable-mounting kit, 3 meters
					PDMHB-CMK5 = Cable-mounting kit, 5 meters

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## ELECTRICAL DATA

Model	Color Temp.	CRI <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							120V	240V	277V			
PDMHB425-4K-MVDIM	4000k	>80	57,439	426	135	120-277	3.55	1.78	1.54	>90%	<20%	113,000
PDMHB425-5K-MVDIM	5000k	>80	57,451	426	135	120-277	3.55	1.78	1.54	>90%	<20%	113,000

<sup>1</sup> Color rendering index.

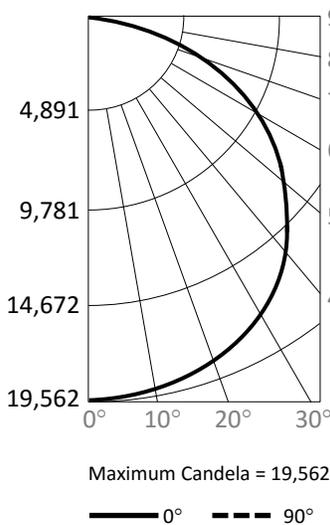
<sup>2</sup> All 50-60Hz.

<sup>3</sup> Total harmonic distortion.

<sup>4</sup> L<sub>70</sub> refers to the number of hours at which lumen output declines to 70% of the initial level. L<sub>70</sub> hours are IES TM-21-11 calculated hours.

## PHOTOMETRIC DATA

### PDMHB425-5K-MVDIM (57,451 Lumens)



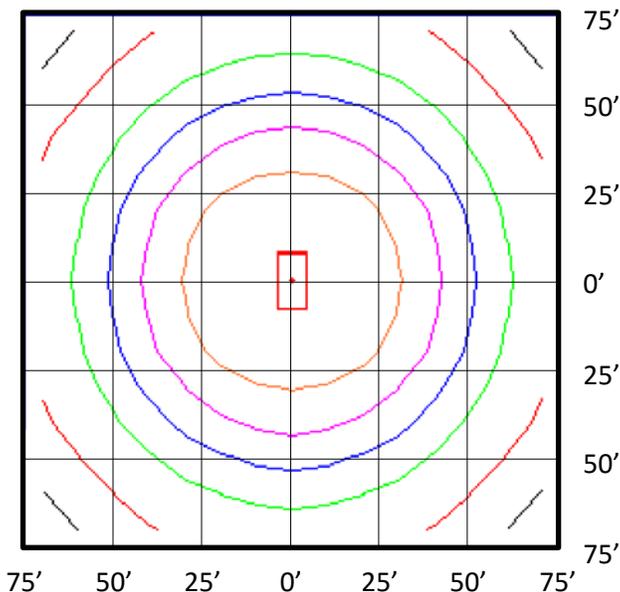
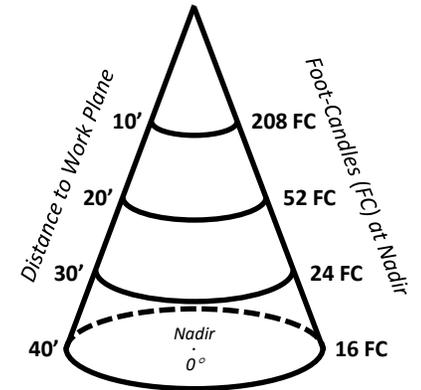
#### Candlepower Summary

	0°	90°
0°	19,562	19,562
10°	19,311	19,378
20°	18,543	18,611
30°	17,269	17,302
40°	15,178	15,351
50°	12,644	12,675
60°	9,432	8,882
70°	5,758	5,093
80°	2,119	1,162
90°	0	0

#### Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	1,838	3.2%
0° – 20°	7,153	12.5%
0° – 30°	15,357	26.7%
0° – 40°	25,496	44.4%
0° – 50°	36,243	63.1%
0° – 60°	46,041	80.1%
0° – 70°	53,252	92.7%
0° – 80°	56,895	99.0%
0° – 90°	57,451	100.0%
90° – 180°	0	0.0%
0° – 180°	57,451	100.0%

#### Cone of Light



#### Notes:

- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.