

PDMHB110 110 Watt LED High Bay



| | |
|------------|--|
| Project: | |
| Type: | |
| Catalog #: | |

STANDARD



The PDMHB110 is an LED high bay luminaire designed to illuminate commercial, industrial & retail settings such as warehouses, manufacturing plants, sporting venues and big-box retailers. With a painted, steel housing and aluminum heat sink, the PDMHB110 provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

FEATURES

- Available in 5000k (cool white) color temperature.*
- Long-life LEDs provide 66,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- 14,680 lumen output from 110 watts input (133 lumens per watt) is standard.*
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming drivers are available as options. To order, use model suffix DIM10V.
- Microwave occupancy sensors are available as options. Order model MWAVEDH-DIM10V separately.
- Power factor > 0.99.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted steel housing and aluminum heat sink.
- Suitable for ambient temperatures from -20°C to 40°C (-4°F to 104°F).
- Easy installation in new construction or retrofit.

* Contact factory for other color temperatures and lumen packages.

** L_{70} hours are IES TM-21-11 calculated hours.

WARRANTY & LISTINGS

- cETLus listed to applicable U.L. standards. Listed for damp locations
- DLC approved.
- 5-year warranty of all electronics and housing.

ORDERING INFORMATION

Example: PDMHB110-5K-MV-DIM10V + LEDHBP + MWAVEDH-DIM10V + PDMHB110-LENS
(110 watt high bay, 0-10vdc dimming + pendant-mounting kit + motion sensor + lens assembly)

| Model | Luminaire Watts | Luminaire Lumens | Color Temperature | Options (Unless Otherwise Noted, Order Separately) |
|----------------|-----------------|------------------|-------------------|--|
| PDMHB110-5K-MV | 110 | 14,680 | 5K = 5000k | DIM10V ¹ = 0-10vdc dimming driver LEDHBP = Pendant-mounting kit LEDHBSMK = Surface-mounting kit MWAVEDH-DIM10V = Microwave motion sensor, 0-10vdc dimming PDMHB110-LENS = Lens assembly, steel door, diffused lens LEDPDMHB110HB110-WG = Steel wire guard, white |

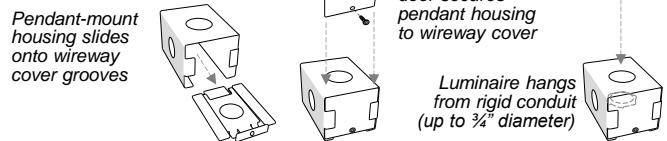
¹ To order, add as a suffix to model number.



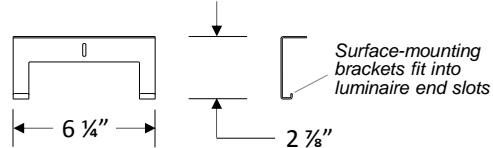
Shown with optional lens cover

MOUNTING OPTIONS

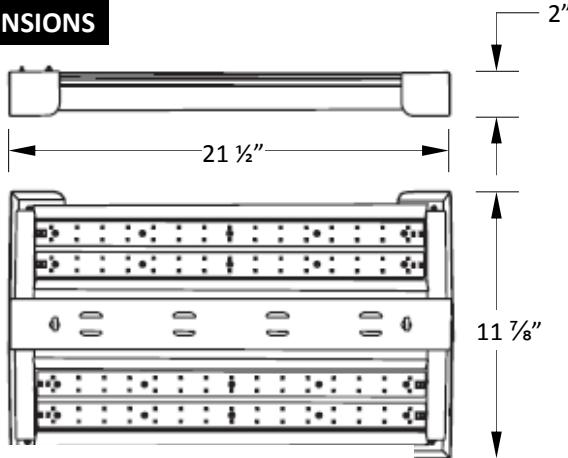
- Suspension from chains (1/8" chain material, 38" long) is standard. V-hangers, which attach the chain to the luminaire, are included.
- Pendant-mounting requires optional kit LEDHBP (order separately).



- Surface-mounting requires optional kit LEDHBSMK (order separately). Brackets (shown below) attach to luminaire ends.



DIMENSIONS



PDMHB110 110 Watt LED High Bay

ELECTRICAL DATA

| Model | Color Temperature | CRI ¹ | Luminaire Lumens | Luminaire Watts | Lumens Per Watt | Input Voltage | Input Current (A) | | | Power Factor | THD ² | L ₇₀ Hours ³ |
|----------------|-------------------|------------------|------------------|-----------------|-----------------|-------------------|-------------------|------|------|--------------|------------------|------------------------------------|
| | | | | | | | 120V | 240V | 277V | | | |
| PDMHB110-5K-MV | 5000k | > 80 | 14,680 | 110 | 133 | 120-277 (50-60Hz) | 0.92 | 0.46 | 0.40 | > 99% | < 20% | 66,000 |

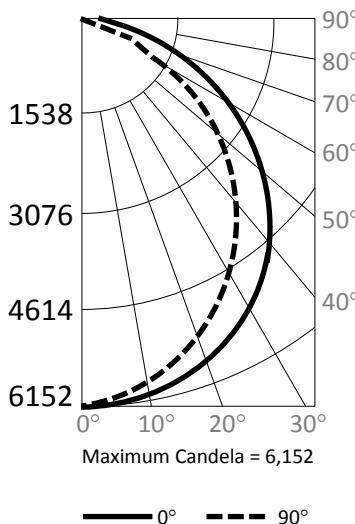
¹ Color rendering index

² Total harmonic distortion

³ 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.

PHOTOMETRIC DATA

PDMHB110-5K-MV (14,680 Lumens)

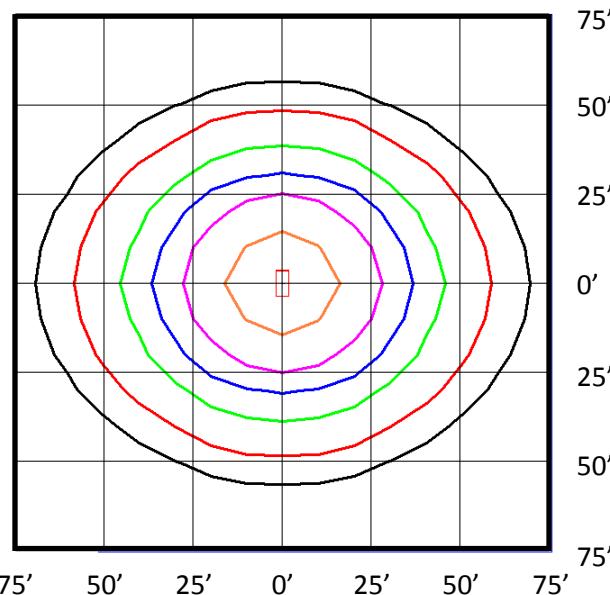
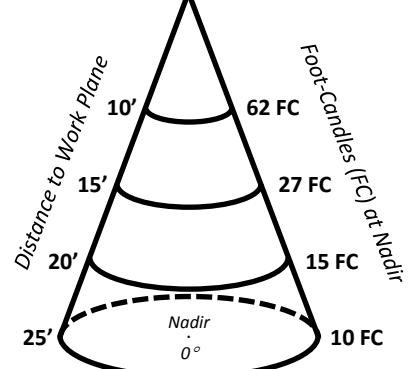


| Candlepower Summary | |
|---------------------|----------------|
| | 0° 90° |
| 0° | 6,152 6,152 |
| 10° | 5,812 6,096 |
| 20° | 5,375 5,793 |
| 30° | 4,589 5,307 |
| 40° | 3,845 4,649 |
| 50° | 2,594 3,797 |
| 60° | 1,535 2,728 |
| 70° | 512 1,614 |
| 80° | 90 502 |
| 90° | 0 0 |
| 0° – 180° | 14,680 |
| 0° – 180° | 100.0% |

Zonal Lumen Summary

| Zone | Lumens | % Fixture |
|-------------------|---------------|---------------|
| 0° – 10° | 578 | 3.9% |
| 0° – 20° | 2,195 | 15.0% |
| 0° – 30° | 4,604 | 31.4% |
| 0° – 40° | 7,432 | 50.6% |
| 0° – 50° | 10,269 | 70.0% |
| 0° – 60° | 12,585 | 85.7% |
| 0° – 70° | 14,049 | 95.7% |
| 0° – 80° | 14,584 | 99.3% |
| 0° – 90° | 14,680 | 100.0% |
| 90° – 180° | 0 | 0.0% |
| 0° – 180° | 14,680 | 100.0% |

Cone of Light



Notes:

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