| | |
|---|---|
| Project | |
| Date | |
| Prepared by | |
| Model # | **HB4-3005-1** |

# HB4-SERIES MONOPOINT HIGH BAY

## OVERVIEW

The HB4-Series Monopoint High Bays are purpose-built for the North American market. A unique integrated wiring compartment means connections can finally be completed directly on the fixture. Multiple knockouts make it compatible with any controls system by giving you room to add sensors and other wireless communications devices and performance-wise, they're designed with a larger diameter chip array allowing for better thermal performance and the capacity for more powerful LED chips.

## PRODUCT HIGHLIGHTS

- Features a multi-functional junction box for easy connection to photocell, motion sensor and other accessories
- Best-in-class Lumileds Luxeon 3030 LED, designed in the USA
- TM-21 Projected Lifetime (L70) over 100,000 hrs
- Built-in surge protection up to 10kV
- Specially designed lens with "bumps" to reduce glaring
- IP65 rated
- Four reflector configuration options available
- 10-year warranty

| OPTICAL SPECIFICATIONS | | | |
|---|---|---|---|
| **Lumen Output (lm)** [1] | 41250 lm | **Beam Angle (°)** [1] | 90° |
| **CCT (K)** [1] | 5000K | **Projected Lifetime ($L_{70}$)** | >100,000 hrs |
| **CRI (Ra)** [1] | 70 | **Lumen Maintenance Factor** | 70% |
| **Efficacy (lm/W)** [1] | >144 lm/W | **Chromaticity Shift** | ±120K |
| **ELECTRICAL SPECIFICATIONS** | | | |
| **Power** | 300W | **Current Draw at 120$V_{AC}$ (A)** [2] | 2.9A |
| **Apparent Power (VA)** | 316VA | **Current Draw at 208$V_{AC}$ (A)** [2] | 1.7A |
| **System Wattage (W)** | 285W | **Current Draw at 240$V_{AC}$ (A)** [2] | 1.5A |
| **Replacement for** | Up to 1000W HID or HPS/MH | **Current Draw at 277$V_{AC}$ (A)** [2] | 1.3A |
| | | **Current Draw at 347$V_{AC}$ (A)** [2] | - |
| **Input Voltage** | 100-277VAC [2] | **Current Draw at 480$V_{AC}$ (A)** [2] | - |
| **LED & DRIVER SPECIFICATIONS** | | | |
| **LED (Brand)** | LumiLEDs | **Power Factor** | >0.9 |
| **LED Design Origin** | United States | **THD** | <20% |
| **LED Type** | Luxeon 3030 | **Driver Class** | Class 2 |
| **Dimmable** | Yes (1-10V) | **Surge Protection** | 6 kV |
| **Output Voltage (VDC)** | 33-65 VDC | | |

## CONSTRUCTION

| | |
|---|---|
| **Housing Material** | Die Cast Alumium |
| **Housing Color** | Black |
| **Lens Material** | Polycarbonate |
| **Dimensions (inch/mm)** | 15.7"Φ x 10.1" (H)<br>400 mm Φ x 257 mm(H)" |
| **Weight (kg/lbs)** | 7.5 kgs/16.6 lbs |
| **Installation Method** | 10' cord (pre-installed)<br>Hook (incl.) or Yoke (optional) |
| **Operation Range (°F/°C)** | -40°F to +122°F/-40°C to +50°C |
| **IP Rating** | IP65 |
| **Wet Location Rated** | UL E473127 |
| **Warranty** [3] | 10 Years |

## APPROVALS & LISTINGS

| | |
|---|---|
| **DLC Premium** | P3HYI4L7 |
| **UL/ETL** | cULus |
| **UL/ETL File Number** | E473127 |

**Rated Lifetime**[1]

| Models | Lumen Output = 90% of Initial ($L_{90}$)[2] | Lumen Output = 70% of Initial ($L_{70}$)[2] |
|---|---|---|
| HB4-100x-x<br>HB4-150x-x<br>HB4-240x-2<br>HB4-300x-2 | >55,000 hrs | >100,000 hrs |
| HB4-240x-1 | >55,000 hrs | >120,000 hrs |
| HB4-300x-1 | >55,000 hrs | >75,000 hrs |

1. Rated Lifetime projected the time needed for the fixture to drop its lumen output to 90% and 70% of its initial value, which was measured based on IESNA LM-79-80 luminaire test reports.
2. Calculations are based on ISTMT (In Situ) luminaire test report, estimated rated lifetime (hours) at $T_A$=77°F / 25°C (ambient temperature).

## OPTIONAL ACCESSORIES

### ALUMINUM REFLECTORS

| | | | |
|---|---|---|---|
| **HB4-16AL80D** | 16" Aluminum Reflector (80°) for: 100W/150W | **HB4-19AL80D** | 19" Aluminum Reflector 80° for: 240W/300W |

### MOUNTING ACCESSORIES

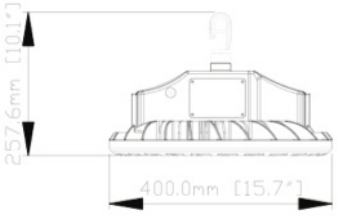
| | |
|---|---|
| **HB4-11YM** | Yoke Mount for: 100W/150W |
| **HB4-12YM** | Yoke Mount for: 240W/300W |

### PRISMATIC REFLECTORS & ATTACHMENTS

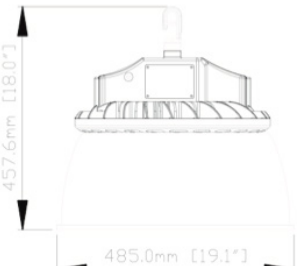
| | | | |
|---|---|---|---|
| **HB4-16PR75D** | 16" Prismatic Reflector (75°) for: 100W/150W | **HB4-19PR75D** | 19" Prismatic Reflector (75°) for: 240W/300W |
| **HB4-16PC80D** | Cone Lens attachment for HB4-16PR75D fits: 100W/150W | **HB4-19PC80D** | Cone Lens attachment for HB4-19PR75D fits: 240W/300W |
| **HB4-16PD80D** | Drop Lens attachment for HB4-16PR75D fits: 100W/150W | **HB4-19PD80D** | Drop Lens attachment for HB4-19PR75D fits: 240W/300W |

## DIMENSIONS

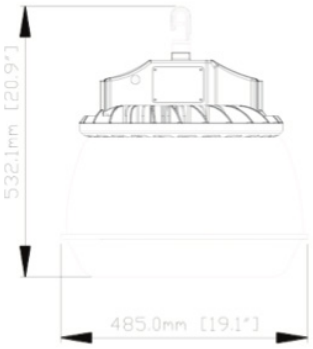
NO REFLECTOR



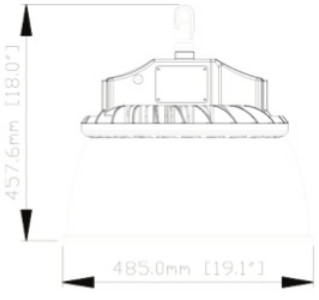

PRISMATIC REFLECTOR



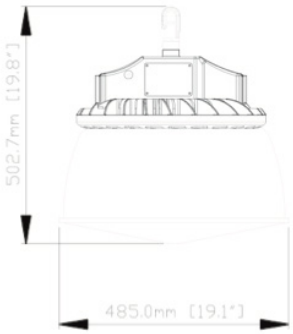

PRISMATIC REFLECTOR + DROP LENS



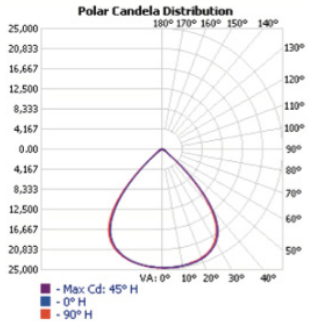

ALUMINUM REFLECTOR



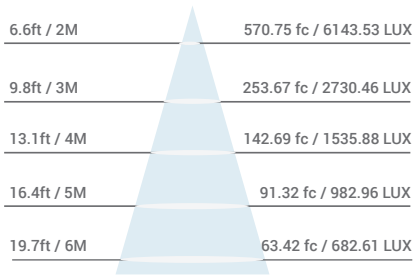

PRISMATIC REFLECTOR + CONE LENS




## CANDELA




## ILLUMINANCE AT A DISTANCE




1. Due to the special conditions of manufacturing, the typical data of optical specifications can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.
2. Exceeding maximum ratings for input voltage and current will cause hazardous overload and will likely destroy the LED fixture.
3. Refer to Warranty Terms & Conditions available at premiseled.com/warranty

Specifications and dimensions subject to change without notice.

3401 ENTERPRISE PARKWAY
BEACHWOOD, OH USA 44122

80-86 CARRIER DRIVE
TORONTO, ON CANADA M9W 5R1