



# HB4-SERIES MONOPOINT HIGH BAY



|             |                   |
|-------------|-------------------|
| Project     |                   |
| Date        |                   |
| Prepared by |                   |
| Model #     | <b>HB4-3004-1</b> |

## 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) <sub>1</sub> | 40924 lm  | Beam Angle (°) <sub>1</sub>           | 90°          |
| CCT (K) <sub>1</sub>           | 4000K     | Projected Lifetime (L <sub>70</sub> ) | >100,000 hrs |
| CRI (Ra) <sub>1</sub>          | 70        | Lumen Maintenance Factor              | 70%          |
| Efficacy (lm/W) <sub>1</sub>   | >143 lm/W | Chromaticity Shift                    | ±120K        |

### ELECTRICAL SPECIFICATIONS

|                     |                           |   |      |
|---------------------|---------------------------|---|------|
| Power               | 300W                      | Current Draw at 120V <sub>AC</sub> (A) <sub>2</sub> | 2.9A |
| Apparent Power (VA) | 316VA                     | Current Draw at 208V <sub>AC</sub> (A) <sub>2</sub> | 1.7A |
| System Wattage (W)  | 285W                      | Current Draw at 240V <sub>AC</sub> (A) <sub>2</sub> | 1.5A |
| Replacement for     | Up to 1000W HID or HPS/MH | Current Draw at 277V <sub>AC</sub> (A) <sub>2</sub> | 1.3A |
|                     |                           | Current Draw at 347V <sub>AC</sub> (A) <sub>2</sub> | -    |
| Input Voltage       | 100-277VAC <sub>2</sub>   | Current Draw at 480V <sub>AC</sub> (A) <sub>2</sub> | -    |

### 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                   |   | APPROVALS & LISTINGS                                 |   |
|--------------------------------|---|--|---|
| <b>Housing Material</b>        | Die Cast Alumium  | <b>DLC Premium</b>                                   | PX6MVJ08  |
| <b>Housing Color</b>           | Black   | <b>UL/ETL</b>  | cULus   |
| <b>Lens Material</b>           | Polycarbonate   | <b>UL/ETL File Number</b>                            | E473127   |
| <b>Dimensions (inch/mm)</b>    | 15.7"Φ x 10.1" (H)<br>400 mm Φ x 257 mm(H)"                 | <b>Rated Lifetime<sup>1</sup></b>                    |   |
| <b>Weight (kg/lbs)</b>         | 7.5 kgs/16.6 lbs  | <b>Models</b>  | <b>Lumen Output = 90% of Initial (L<sub>90</sub>)<sup>2</sup></b> |
| <b>Installation Method</b>     | 10' cord (pre-installed)<br>Hook (incl.) or Yoke (optional) | HB4-100x-x<br>HB4-150x-x<br>HB4-240x-2<br>HB4-300x-2 | <b>Lumen Output = 70% of Initial (L<sub>70</sub>)<sup>2</sup></b> |
| <b>Operation Range (°F/°C)</b> | -40°F to +122°F/-40°C to +50°C                              | HB4-240x-1   | >100,000 hrs  |
| <b>IP Rating</b>               | IP65  | HB4-300x-1   | >55,000 hrs   |
| <b>Wet Location Rated</b>      | UL E473127  |  | >120,000 hrs  |
| <b>Warranty<sub>3</sub></b>    | 10 Years  |  | >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<sub>A</sub>=77°F / 25°C (ambient temperature).

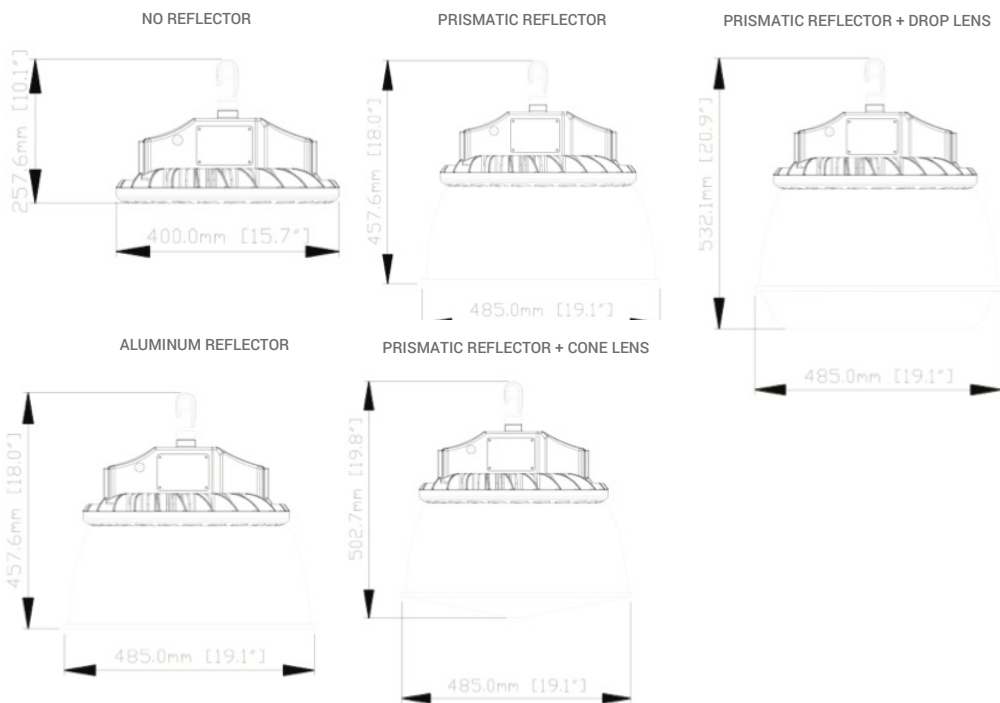
### OPTIONAL ACCESSORIES

| ALUMINUM REFLECTORS |   | MOUNTING ACCESSORIES |   |
|---------------------|---|----------------------|---|
| <b>HB4-16AL80D</b>  | 16" Aluminum Reflector (80°) for: 100W/150W | <b>HB4-19AL80D</b>   | 19" Aluminum Reflector 80° for: 240W/300W |
|                     |   | <b>HB4-11YM</b>      | Yoke Mount for: 100W/150W                 |
|                     |   | <b>HB4-12YM</b>      | Yoke Mount for: 240W/300W                 |

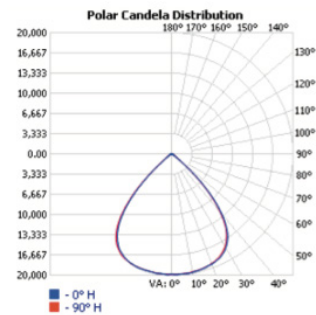
### PRISMATIC REFLECTORS & ATTACHMENTS

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

### DIMENSIONS



### CANDELA



### ILLUMINANCE AT A DISTANCE

|             |                         |
|-------------|-------------------------|
| 6.6ft / 2M  | 461.19 fc / 4964.25 LUX |
| 9.8ft / 3M  | 204.97 fc / 2206.33 LUX |
| 13.1ft / 4M | 115.30 fc / 1241.06 LUX |
| 16.4ft / 5M | 73.79 fc / 794.28 LUX   |
| 19.7ft / 6M | 51.24 fc / 551.58 LUX   |

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](http://premiseled.com/warranty)

Specifications and dimensions subject to change without notice.

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