



# HB4-SERIES HIGH BAY



Project	
Date	
Prepared by	
Model #	HB4-1505-1-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
- NSF/ANSI 2: Food Equipment rated
- IP65 rated
- Four reflector configuration options available
- 10-year warranty

### OPTICAL SPECIFICATIONS

Lumen Output (lm) <sub>1</sub>	22045	Beam Angle (°) <sub>1</sub>	90°
CCT (K) <sub>1</sub>	5000K	Projected Lifetime (L <sub>70</sub> )	>100,000 hrs
CRI (Ra) <sub>1</sub>	>83.2	Lumen Maintenance Factor	70%
Efficacy (lm/W) <sub>1</sub>	>144.37 lm/W	Chromaticity Shift	±120K

### ELECTRICAL SPECIFICATIONS

Power	150W	Current Draw at 120V <sub>AC</sub> (A) <sub>2</sub>	1.5A
Apparent Power (VA)	162VA	Current Draw at 208V <sub>AC</sub> (A) <sub>2</sub>	0.9A
System Wattage (W)	152.7W	Current Draw at 240V <sub>AC</sub> (A) <sub>2</sub>	0.8A
Replacement for	400W+ HID	Current Draw at 277V <sub>AC</sub> (A) <sub>2</sub>	0.7A
Input Voltage	100-277V		

### LED AND DRIVER SPECIFICATIONS

LED (Brand)	LumiLEDs	Power Factor	0.915
LED Design Origin	United States	THD	12.74%
LED Type	Luxeon 3030	Driver Class	Class 2
Dimmable	Yes (1-10V)	Surge Protection	6 kV
Output Voltage (VDC)	40 VDC		

CONSTRUCTION		APPROVALS AND LISTINGS														
Housing Material	Die Cast Aluminum	DLC Premium		PLAFRLE28QPT												
Housing Color	Black	UL/ETL		cULus												
Lens Material	Polycarbonate	UL/ETL File Number		E473127												
Dimensions (inch/mm)	13.8" Φ x 9.4" (H) 350 mm Φ x 240 mm(H)	NSF Rating		NSF/ANSI 2: Food Equipment												
Weight (kg/lbs)	6.1 kgs/13.5 lbs	<div>Rated Lifetime<sup>1</sup></div> <table><tr><th>Models</th><th>Lumen Output = 90% of Initial (L<sub>90</sub>)<sup>2</sup></th><th>Lumen Output = 70% of Initial (L<sub>70</sub>)<sup>2</sup></th></tr><tr><td>HB4-100x-x HB4-150x-x HB4-240x-2 HB4-300x-2</td><td>&gt;55,000 hrs</td><td>&gt;100,000 hrs</td></tr><tr><td>HB4-240x-1</td><td>&gt;55,000 hrs</td><td>&gt;120,000 hrs</td></tr><tr><td>HB4-300x-1</td><td>&gt;55,000 hrs</td><td>&gt;75,000 hrs</td></tr></table> <div><div>1.</div><div>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.</div><div>2.</div><div>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).</div></div>			Models	Lumen Output = 90% of Initial (L <sub>90</sub> ) <sup>2</sup>	Lumen Output = 70% of Initial (L <sub>70</sub> ) <sup>2</sup>	HB4-100x-x HB4-150x-x HB4-240x-2 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
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HB4-240x-1	>55,000 hrs				>120,000 hrs											
HB4-300x-1	>55,000 hrs				>75,000 hrs											
Installation Method	10' cord (pre-installed) Hook (incl.) or Yoke (optional)															
Operation Range (°F/°C)	-22°F to 122°F/-30°C to 50°C															
IP Rating	IP65															
Wet Location	Yes															
Warranty	10 Years															

OPTIONAL ACCESSORIES	
HB4-16AL80D	16" Aluminum Reflector (80°) for: 100W/150W
HB4-16PR75D	16" Prismatic Reflector (75°) for: 100W/150W
HB4-16PC80D	Cone Lens attachment for HB4-16PR75D fits: 100W/150W
HB4-16PD80D	Drop Lens attachment for HB4-16PR75D fits: 100W/150W
HB4-11YM	Yoke Mount for: 100W/150W

## DIMENSIONS

NO REFLECTOR

PRISMATIC REFLECTOR

PRISMATIC REFLECTOR + DROP LENS

ALUMINUM REFLECTOR

PRISMATIC REFLECTOR + CONE LENS

## CANDELA

**Polar Candela Distribution**

Legend:  
 ■ - Max Cd: 202.5° H  
 ■ - 0° H  
 ■ - 90° H

## ILLUMINANCE AT A DISTANCE

6.6ft / 2M	285.6 fc / 3073.9 LUX
9.8ft / 3M	126.9 fc / 1366.2 LUX
13.1ft / 4M	71.4 fc / 768.5 LUX
16.4ft / 5M	45.7 fc / 491.8 LUX
19.7ft / 6M	31.7 fc / 341.6 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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