

100W & 150W Round LED High Bay

The LEDHBRN is a round LED high bay luminaire, which 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 die cast aluminum housing and polycarbonate lens, the LEDHBRN provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

Prefix: LEDHBRN



project:

fixture type:

catalog #:

quantity:



ORDERING GUIDE

EXAMPLE: LEDHBRN100-4K + LEDHBRN-PSH+ LEDHBRN-OSJBOX

MODEL	COLOR TEMPERATURE	OPTIONS (ORDER SEPARATELY)
<p><b>LEDHBRN100</b> - 100W Round LED High Bay</p> <p><b>LEDHBRN150</b> - 150W Round LED High Bay</p>	<p><b>4K</b> - 4000k</p> <p><b>5K</b> - 5000k</p>	<p><b>LEDHBRN-PSH</b> - Snap hook</p> <p><b>LEDHBRN-YOKE</b> - Yoke mount bracket</p> <p><b>LEDHBRN-JBOX</b> - Junction box &amp; mounting bracket</p> <p><b>LEDHBRN-OSJBOX</b> - Merrytek IP65-Rated, microwave occupancy sensor, junction box &amp; mounting bracket</p>

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide 80,000 hours of operation with at least 70% of initial lumen output (L<sub>70</sub>).\*\*
- LEDHBRN100W provides 13,093 lumens (127 lumens per watt, LPW) at 4000k, and 13,116 lumens (127 LPW) 5000k.\*
- LEDHBR150W provides 18,240 lumens (120 LPW) at 4000k, and 18,450 lumens (121 LPW) 5000k.\*
- Universal 120-277 AC voltage (50-60Hz) is standard. Stepdown transformers are required for 347-480V applications.
- 0-10vdc dimming drivers are standard.
- Watertight, compression-type electrical connectors prevent moisture intrusion.
- Standard mounting bracket and optional mounting accessories provide ceiling and conduit mounting, and up to 100° of adjustability.

- Optional wet-location junction box & bracket (LEDHBRN-JBOX) attaches to luminaire housing, and simplifies wiring connections in wet locations.
- Optional Merrytek occupancy sensor (IP65 rated) and junction box assembly provides a factory-ready, fully-wired luminaire & control package.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted die cast aluminum housing.
- Easy installation in new construction or retrofit.

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- IP65 rated for ingress protection.
- DLC standard approved.
- IK 7 rated for protection from external impacts.
- Complies with FCC Part 15, class B.

- Complies with EN61000-4-5, surge immunity protection (4kV).
- 5-year warranty of all electronics and housing.

MOUNTING OPTIONS

- Suspension from pre-installed mounting hook (cast iron M10 eyebolt) with locking set screw is standard.
- Ceiling-mounted installation (using optional yoke mounting bracket, LEDHBRN-YOKE) provides up to 100° of adjustability.
- Two ways to mount luminaire to electrical conduit:
- Attach conduit (1/2" NPS) to optional yoke mounting bracket (LEDHBRN-YOKE).
- Optional snap hook (LEDHBRN-PSH) attaches to electrical conduit (3/4" NPS).

\* Contact factory for other color temperatures and lumen packages

\*\* L<sub>70</sub> hours are IES TM-21-11 calculated hours.

**Electrical Data**

Model	Color Temp.	CRI <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage <sup>2</sup>	Input Current			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							120V	240V	277V			
LEDHBRSN 100-4K	4000k	>80	13,093	103	127	120-277	0.86	0.43	0.37	>90%	<20%	80,000
LEDHBRSN 100-5K	5000k	>80	13,116	103	127	120-277	0.86	0.43	0.37	>90%	<20%	80,000
LEDHBRSN 150-4K	4000k	>80	18,240	103	120	120-277	1.27	0.63	0.55	>90%	<20%	80,000
LEDHBRSN 150-5K	5000k	>80	18,450	103	121	120-277	1.27	0.63	0.55	>90%	<20%	80,000

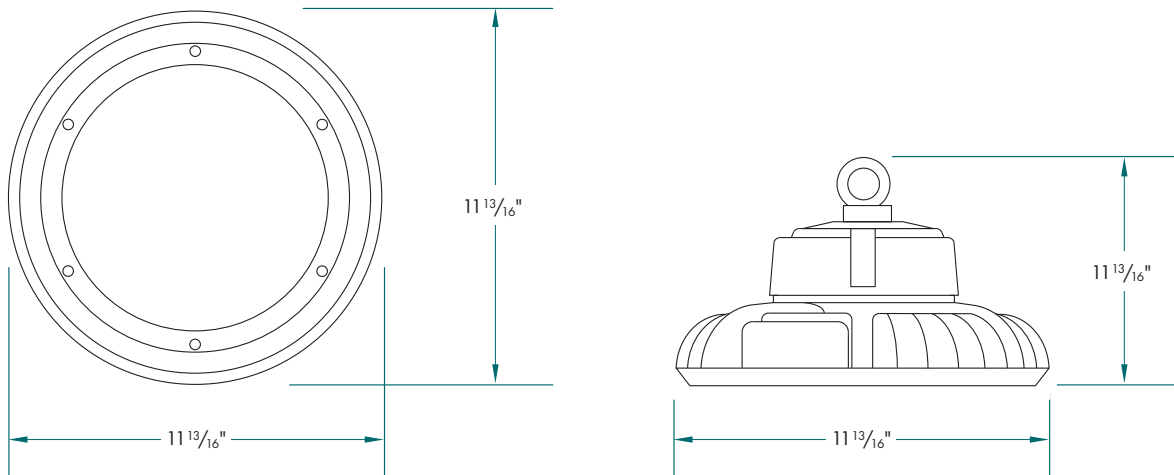
<sup>1</sup> Color rendering index.

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

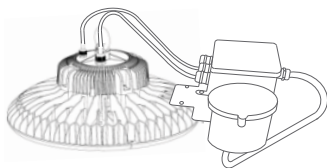
<sup>3</sup> Total harmonic distortion.

<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.

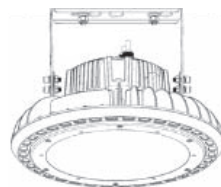
**Dimensions**



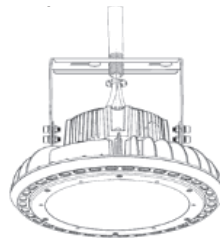
**Features/Options**



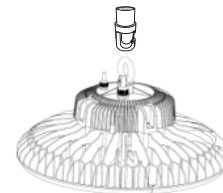
LEDHBRSN with Waterproof Junction Box, Mounting Bracket & Merrytek Sensor



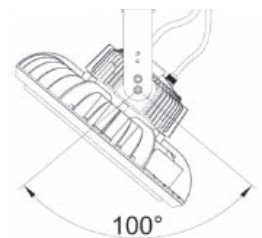
Ceiling-Mounted (LEDHBRSN-YOKE)



Conduit-Mounted (LEDHBRSN-YOKE)



Conduit-Mounted (LEDHBRSN-PSH)

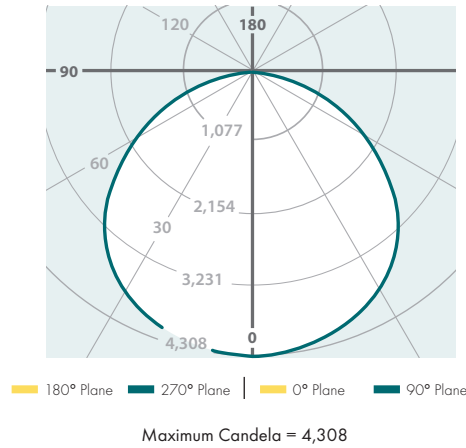


Adjustable

**Photometric Data**

LEDHBRSN100-5K (13,116 Lumens)

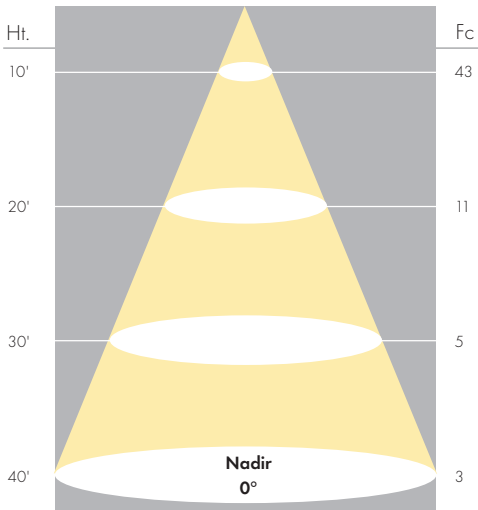
**Candela Distribution Polar Plot**



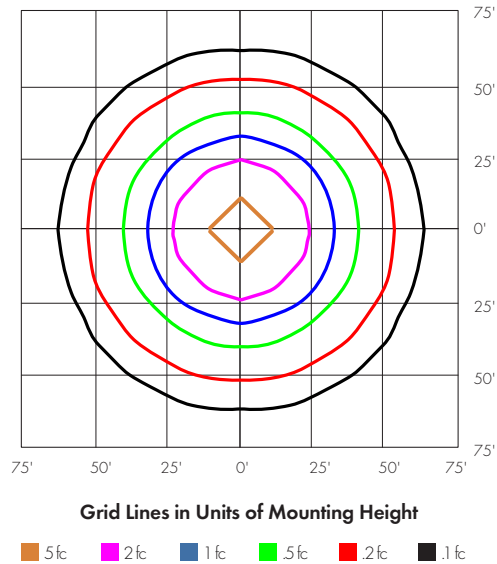
**Candlepower Summary**

	0°	90°
0°	4,308	4,308
10°	4,265	4,259
20°	4,089	4,073
30°	3,788	3,758
40°	3,345	3,305
50°	2,755	2,727
60°	1,918	1,878
70°	1,012	974
80°	220	199
90°	2	3

**Cone of Light**



**Horizontal Footcandles**



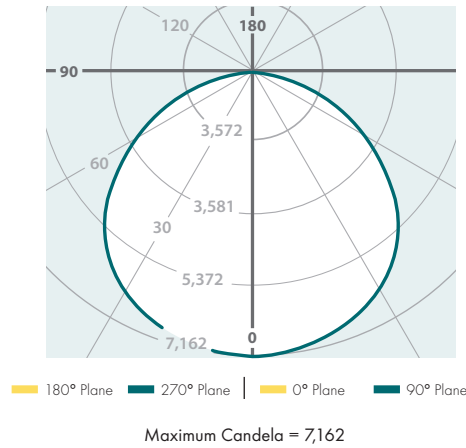
**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0° - 10°	636	4.9%
0° - 20°	2,527	19.3%
0° - 30°	5,561	42.4%
0° - 40°	9,158	69.8%
0° - 50°	11,544	88.0%
0° - 60°	12,434	94.8%
0° - 70°	12,870	98.1%
0° - 80°	13,066	99.6%
0° - 90°	13,090	99.8%
90° - 180°	26	0.2%
0° - 180°	13,116	100.0%

**Photometric Data**

LEDHBRSN150-5K (18,450 Lumens)

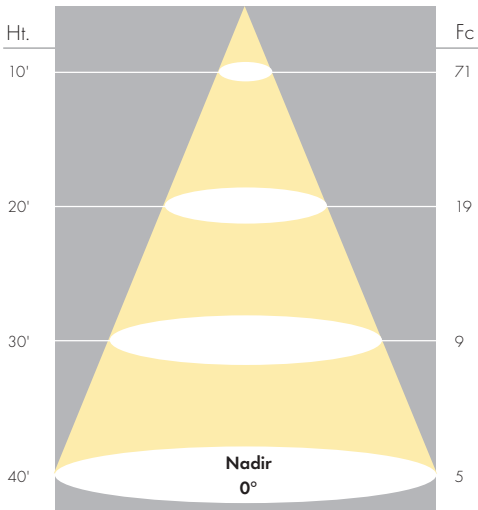
**Candela Distribution Polar Plot**



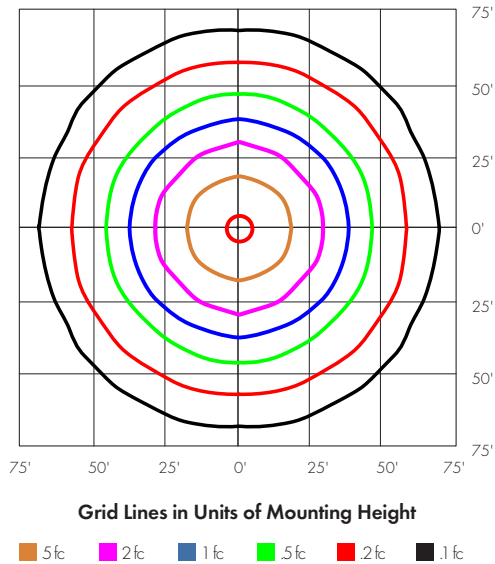
**Candlepower Summary**

	0°	90°
0°	7,162	7,162
10°	7,105	7,127
20°	6,837	6,839
30°	6,357	6,373
40°	5,626	5,623
50°	4,610	4,626
60°	3,223	3,233
70°	1,644	1,683
80°	273	332
90°	1	1

**Cone of Light**



**Horizontal Footcandles**



**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0° - 10°	620	3.4%
0° - 20°	2,425	13.1%
0° - 30°	5,184	28.1%
0° - 40°	8,594	46.6%
0° - 50°	12,190	66.1%
0° - 60°	15,334	83.1%
0° - 70°	17,491	94.8%
0° - 80°	18,343	99.4%
0° - 90°	18,409	99.8%
90° - 180°	41	0.2%
0° - 180°	18,450	100.0%