

Project:	
Type:	
Catalog #:	



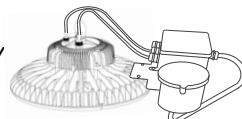
STANDARD



The CLHB-RD 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 CLHB-RD 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 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 81,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- CLHB-RD-200 provides 24,816 lumens (126 lumens per watt, LPW) at 4000k, and 25,042 lumens (127 LPW) at 5000k.*
- CLHB-RD-240 provides 29,412 lumens (124 LPW) at 4000k, and 29,628 lumens (124 LPW) at 5000k.*
- Universal 120-277 AC voltage (50-60Hz) is standard. Step-down 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 (CLHB-RD-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.



CLHB-RD With Waterproof Junction Box, Mounting Bracket & Merrytek Sensor

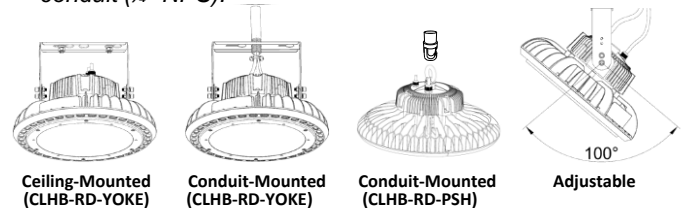
* Contact factory for other color temperatures and lumen packages.
 ** L_{70} hours are IES TM-21-11 calculated hours.

WARRANTY & LISTINGS

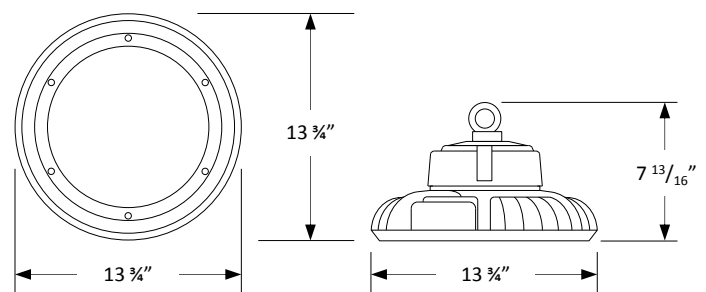
- cULus listed for wet locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- IP65 rated for ingress protection.
- DLC standard approved.
- IK 7 rated for protection from external impacts.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (4kV).
- 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, CLHB-RD-YOKE) provides up to 100° of adjustability.
- Two ways to mount luminaire to electrical conduit:
 - Attach conduit (½" NPS) to optional yoke mounting bracket (CLHB-RD-YOKE).
 - Optional snap hook (CLHB-RD-PSH) attaches to electrical conduit (¾" NPS).



DIMENSIONS



Weight: 12.1 lbs.

ORDERING INFORMATION

Example: CLHB-RD-20040

Model	Luminaire Watts	Luminaire Lumens	Lumens Per Watt	Color Temperature	Options (Order Separately)*
CLHB-RD-200	197	24,816 25,042	126 127	40 = 4000k 50 = 5000k	CLHB-RD-PSH = Snap hook CLHB-RD-YOKE = Yoke mount bracket CLHB-RD-JBOX = Junction box & mounting bracket CLHB-RD-OSJBOX = Merrytek IP65-Rated, microwave occupancy sensor, junction box & mounting bracket
CLHB-RD-240	238	29,412 29,628	124 124	40 = 4000k 50 = 5000k	

* Luminaire must be yoke mounted if installing the JBOX or OSJBOX.

ELECTRICAL DATA

Model	Color Temp.	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage ²	Input Current (A)			Power Factor	THD ³	L ₇₀ Hours ⁴
							120V	240V	277V			
CLHB-RD-20040	4000k	>80	24,816	197	126	120-277	1.64	0.82	0.71	>90%	<20%	81,000
CLHB-RD-20050	5000k	>80	25,042	197	127	120-277	1.64	0.82	0.71	>90%	<20%	81,000
CLHB-RD-24040	4000k	>80	29,412	238	124	120-277	1.98	0.99	0.86	>90%	<20%	81,000
CLHB-RD-24050	5000k	>80	29,628	238	124	120-277	1.98	0.99	0.86	>90%	<20%	81,000

¹ Color rendering index.

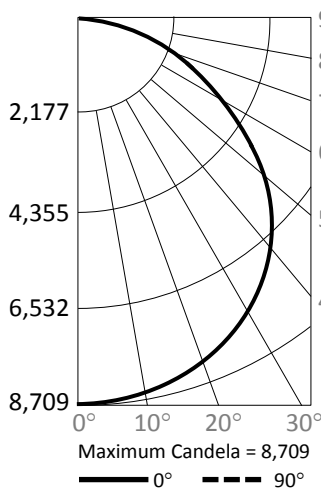
² All 50-60Hz.

³ Total harmonic distortion.

⁴ 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

CLHB-RD-20050 (25,042 Lumens)



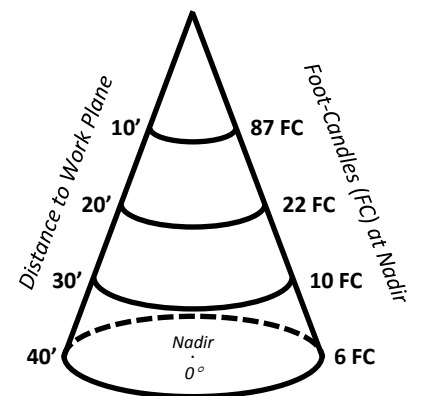
Candlepower Summary

	0°	90°
0°	8,709	8,709
10°	8,602	8,610
20°	8,231	8,229
30°	7,599	7,578
40°	6,675	6,661
50°	5,369	5,331
60°	3,858	3,780
70°	2,043	2,016
80°	463	430
90°	5	7

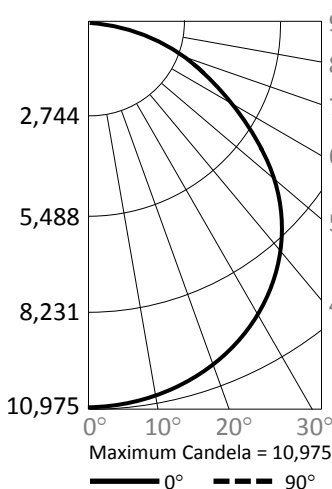
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	847	3.4%
0° - 20°	3,290	13.1%
0° - 30°	7,040	28.1%
0° - 40°	11,633	46.5%
0° - 50°	16,434	65.5%
0° - 60°	20,648	82.5%
0° - 70°	23,617	94.3%
0° - 80°	24,890	99.4%
0° - 90°	25,019	99.9%
90° - 180°	23	0.1%
0° - 180°	25,042	100.0%

Cone of Light



CLHB-RD-24050 (29,628 Lumens)



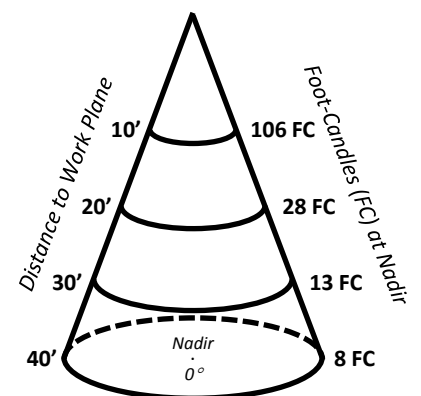
Candlepower Summary

	0°	90°
0°	10,975	10,975
10°	10,858	10,903
20°	10,383	10,422
30°	9,593	9,617
40°	8,482	8,447
50°	6,769	6,752
60°	4,871	4,780
70°	2,624	2,571
80°	570	562
90°	6	9

Zonal Lumen Summary

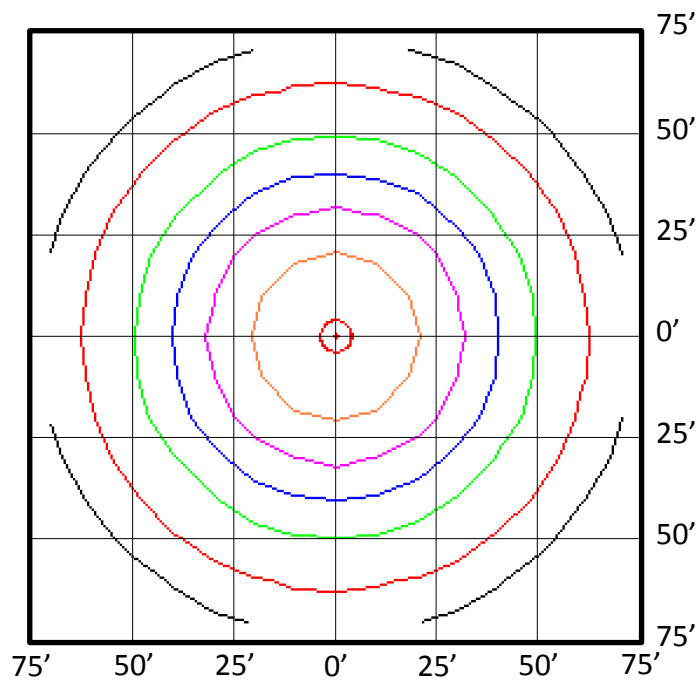
Zone	Lumens	% Fixture
0° - 10°	1,003	3.4%
0° - 20°	3,899	13.2%
0° - 30°	8,344	28.2%
0° - 40°	13,792	46.6%
0° - 50°	19,469	65.7%
0° - 60°	24,447	82.5%
0° - 70°	27,944	94.3%
0° - 80°	29,448	99.4%
0° - 90°	29,601	99.9%
90° - 180°	27	0.1%
0° - 180°	29,628	100.0%

Cone of Light

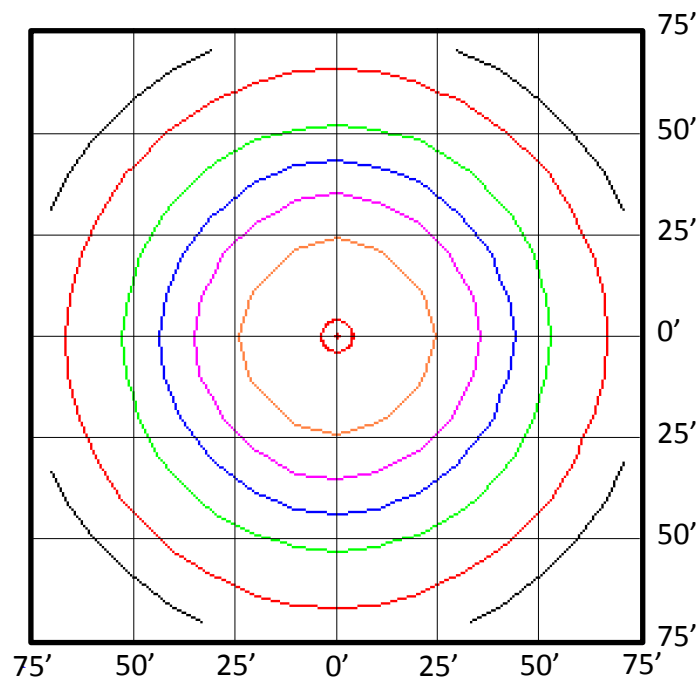


PHOTOMETRIC DATA

CLHB-RD-20050 (25,042 Lumens)



CLHB-RD-24050 (29,628 Lumens)



- Foot Candles**
- 5.0
 - 2.0
 - 1.0
 - 0.5
 - 0.2
 - 0.1

Notes:

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