

APPLICATIONS

The CLHB-LF-90 is a full-body, premium-performance LED high bay luminaire. It 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 painted, steel housing, the CLHB-LF-90 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 temperature.*
- Long-life LEDs provide 122,000 hours of operation with at least 70% of initial lumens output (L₇₀).**
- Delivers 12,420 lumens (138 lumens per watt, LPW) at 4000k, and 12,600 lumens (140 LPW) at 5000k.*
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Step-down transformers are required for 347-480V applications. Use optional transformer cover box for enclosed wire connections (see page two for details).
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%
- Color rendering index > 80.
- Painted steel housing.
- Easy installation in new construction or retrofit.
- Chain-mount kits (includes v-hooks and 1/8" thick, 1-meter long chain) are standard.
- Options include lenses (clear & diffused), wire-guard kits, surface-mounting kits, pendant-mounting kits, and cable-mounting kits.

* contact factory for other color temperatures and lumen packages.

**L₇₀ hours are IES TM-21-11 calculated hours.

STANDARD



Shown with optional diffuse lens

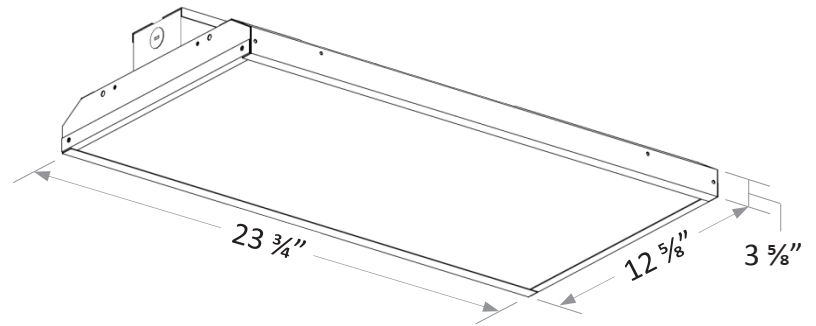
MOUNTING

- Chain mounting with V-hooks is standard.
- Optional surface mounting kit provides attachment to flat ceilings.
- Optional pendant mounting kit provides pendant attachment to junction boxes.
- Optional cable mounting kits provide suspension at two lengths (i.e. 3 & 5 meters).

WARRANTY & LISTING

- cULus listed for damp locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- DLC Premium approved.
- Complies with FCC Part 15, class B.
- Complies with IEEE C.62.41-1991, input transient protection (2.5kV).
- 5-year warranty

DIMENSIONS



PRODUCT PARAMETER

MODEL	LUMINAIRE WATTS	LUMINAIRE LUMENS	LUMENS PER WATTS	COLOR TEMPERATURE	OPTIONS (ORDER SEPARATELY)
CLHB-LF-9040	90	12,420	138	40 = 4000K	-CRLENS = Clear lens -DIFLENS = Diffuse lens -WG = Wire-guard kit -SMK = Surface-mounting kit -PMK = Pendant-mounting kit -CMK3 = Cable-mounting kit, 3 meters long -CMK5 = Cable-mounting kit, 5 meters long
CLHB-LF-9050	90	12,600	140	50 = 5000K	

ELECTRICAL DATA

MODEL	COLOR TEMPERATURE	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-LF-9040	4000k	>80	12,420	90	138	120-277	0.75	0.38	0.32	>90%	<20%	122,000
CLHB-LF-9050	5000k	>80	12,600	90	140	120-277	0.75	0.38	0.32	>90%	<20%	122,000

¹ Color rendering index.

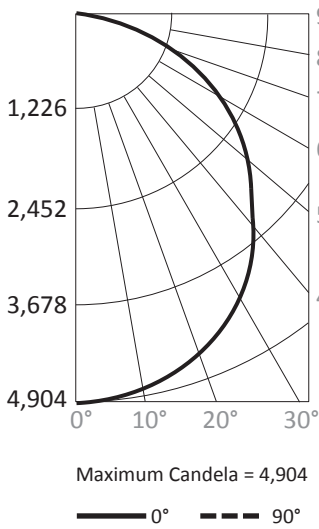
² All 50-60Hz.

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-LF-9050 (12,600 Lumens)



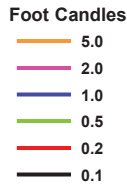
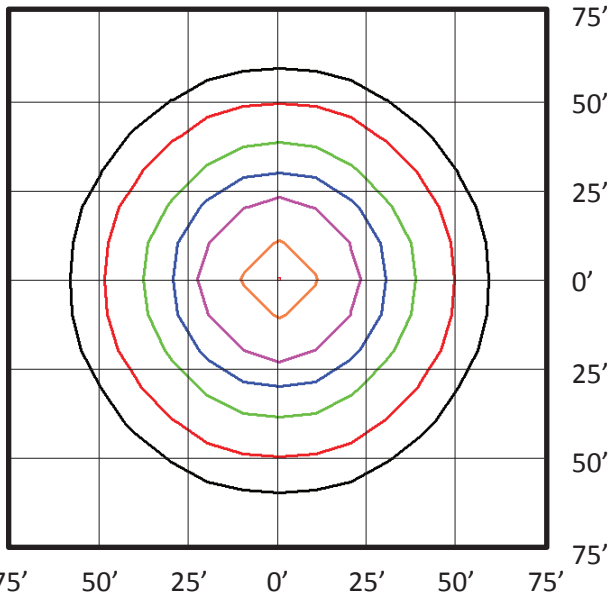
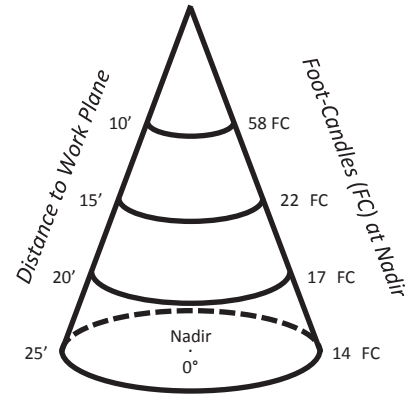
Candlepower Summary

	0°	90°
0°	4,904	4,904
10°	4,826	4,807
20°	4,606	4,552
30°	4,174	4,093
40°	3,534	3,434
50°	2,722	2,562
60°	1,832	1,663
70°	1,029	900
80°	396	326
90°	0	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	465	3.7%
0° - 20°	1,797	14.3%
0° - 30°	3,809	30.2%
0° - 40°	6,197	49.2%
0° - 50°	8,553	67.9%
0° - 60°	10,488	83.2%
0° - 70°	11,791	93.6%
0° - 80°	12,446	99.8%
0° - 90°	12,600	100.0%
90° - 180°	0	0.0%
0° - 180°	12,600	100.0%

Cone of Light



Notes:

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

Installation Diagram

Diagram showing the fixture being installed into a recessed ceiling. The fixture is shown in two positions: one being lowered into the ceiling and another being fully seated. The diagram illustrates the electrical connections and the mounting mechanism.

