

HHBLE

LED Linear High Bay, 78,000 Lumens

STANDARD



FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 130,000 hours of operation with at least 70% of initial lumen output (L_{70}), and 40,000 hours with at least 90% of initial lumen output (L_{90}).**
- 78,000 nominal lumens.
- 500 nominal watts. –
- LED chromaticity based on < 7-step ANSI quadrangles.
- LED color maintenance < 0.002 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Universal 120-277 AC voltage (50-60Hz) is standard. Optional 347-480V available.
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted steel housing and PMMA (polymethyl methacrylate) frosted lenses are standard.
- Chain-mount kits (includes v-hooks and 1/8" thick, 1-meter long chain) are standard.
- Optional wire-guards.
- Easy installation in new construction or retrofit.

* Contact factory for other color temperatures and lumen packages.

** L_{70} & L_{90} hours are IES TM-21-11 calculated hours.

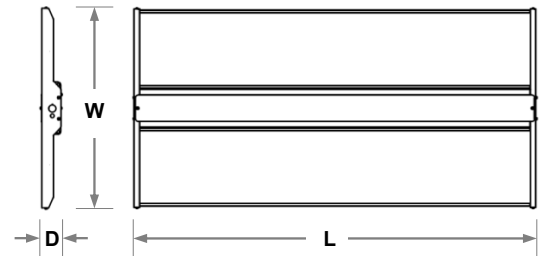
MOUNTING OPTIONS

- Chain mounting with V-hooks is standard.
- Optional mounting means include surface mounting and cable mounting.*

* See Accessories, page 2.



DIMENSIONS



Model	Length (L)	Width (W)	Depth (D)	Weight
78L	46.5"	22.9"	2.2"	21 lbs.

WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).*
- DLC premium listed.
- Complies with FCC Part 15, class A.
- Complies with IEEE C.62.41-1991, input transient protection (2.0kV).
- 5-year warranty of all electronics and housing.

* Luminaires utilizing step-down transformers and emergency drivers must be mounted at least 18" below ceiling in ambient temperatures not exceeding 42°C. Step-down transformers or emergency drivers not compatible with surface mount accessory. Surface mounted luminaire suitable for operation in ambient temperatures not exceeding 44°C. When luminaire is mounted 18" below ceiling with no step-down transformer or emergency driver installed, luminaire is suitable for operation in ambient temperatures not exceeding 50°C.

ORDERING INFORMATION

Example: HHBLE-78L-5K

Series	Nominal Lumen Output		Color Temperature		Input Voltage		Occupancy Sensor ^{1 2 3}		Emergency Driver ^{1 2 3}	
	Model	Lumens	4K	5K	UNC	347-480V	ODS	Sensor	Model	Lumens
HHBLE	78L	78,000	4000k	5000k	UNC	347-480V	ODS	Passive infrared	EM16	1600 lumens
			Blank	120-277V	Blank	No occupancy sensor	EM20	2000 lumens		
								EM24	2400 lumens	
								EC16	1600 lumens	
								EC20	2000 lumens	
								EC24	2400 lumens	
								Blank	No emergency driver	

¹ Contact factory for other sensors.

² Luminaires with the ODS sensor installed have a maximum mounting height of 45 FT. ³

Emergency drivers available for 120-277V models only.

⁴ See list of emergency drivers (page 2).

⁵ EC emergency drivers are California Energy Commission (CEC) listed.

Compatible Emergency Drivers

Emergency Driver Part Number	EM16 / EC16		EM20 / EC20		EM24 / EC24		Runtime
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	
HBLE-78L-xK	10.7	1740	13.7	2220	17.0	2760	90 MINS.

Compatible Dimmers

Manufacture	Model Number	Dimming Range	Load Switching Capacity
Leviton	IP710-LFZ	10%-100%	1200W
General Protecht	DMD-LED3-102	10%-100%	600W

Accessories
Mounting Options

- HBLE-SMK-4.4WIDE** = Surface-mounting kit
LEDFHB-CMK3 = Cable-mounting kit, 3 meters long
LEDFHB-CMK5 = Cable-mounting kit, 5 meters long

Wire Guard

- HBLE-WG-47X23** = Wire-guard

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			
HBLE-78L-4K	4000k	>80	77,545	523	148	120-277	4.36	2.18	1.89	>0.90	<20%	130,000
HBLE-78L-5K	5000k	>80	77,601	511	152	120-277	4.26	2.13	1.84	>0.90	<20%	130,000

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
HBLE-78L-4K
Luminaire Data

Description	Linear High Bay 78L, 4K
Total Lumens	77,545
Input Wattage	523
Efficacy (lm/W)	148
Spacing Criterion (0-180°)	1.26
Spacing Criterion (90-270°)	1.26

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	10,986	14.2%
0-30°	23,282	30.0%
0-40°	37,847	48.8%
20-50°	41,313	53.3%
40-70°	34,722	44.8%
0-60°	64,352	83.0%
0-80°	76,648	98.8%
0-90°	77,503	99.9%
90-180°	42	0.1%
0-180°	77,545	100.0%

