

# HBLE

LED Linear High Bay,  
78,000 Lumens

Project:	
Type:	
Catalog #:	

## 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  $\leq 7$ -step ANSI quadrangles.
- LED color maintenance  $\leq 0.002$  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  $\frac{1}{8}$ " 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.



## WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ ).\*
- 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.

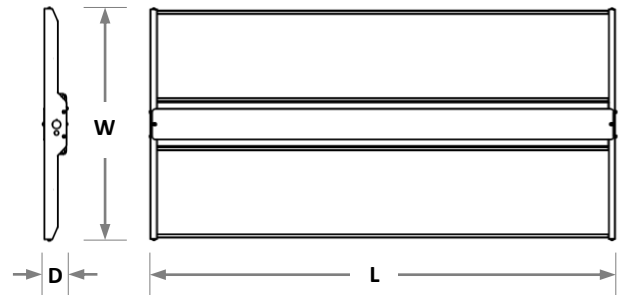
\* Luminaires utilizing step-down transformers must be mounted at least 18" inches below ceiling in ambient temperatures not exceeding  $42^{\circ}\text{C}$ . Surface mounted luminaires must not be installed in ambient temperatures exceeding  $44^{\circ}\text{C}$ .  $50^{\circ}\text{C}$  only when mounted 18" below ceiling with no step-down or emergency drivers installed.

## 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.

## ORDERING INFORMATION

Example: HBLE-78L-5K

Series	Nominal Lumen Output		Color Temperature		Input Voltage		Occupancy Sensor <sup>1,2,3</sup>		Emergency Driver <sup>1,2,3</sup>	
	78L	78,000	4K	4000k	UNC	347-480V	ODS	Passive infrared	EM16	1600 lumens
HBLE	78L	78,000	5K	5000k	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

<sup>1</sup> Contact factory for other sensors.

<sup>2</sup> Luminaires with the ODS sensor installed have a maximum mounting height of 45 FT.

<sup>3</sup> Emergency drivers available for 120-277V models only.

<sup>4</sup> See list of emergency drivers (page 2).

<sup>5</sup> 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 <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							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

<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.

### 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%

