

L70
25°C

130,000 Hours



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 (L₇₀), and 40,000 hours with at least 90% of initial lumen output (L₉₀).**
- 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 $\frac{1}{8}$ " thick, 1-meter long chain) are standard.
- Optional wireguards.
- Easy installation in new construction or retrofit.

* Contact factory for other color temperatures and lumen packages.

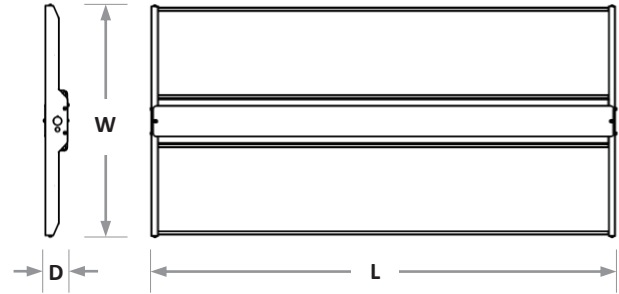
** L₇₀ & L₉₀ hours are IES-TM-2111 calculated hours.

ORDERING INFORMATION

Series	Nominal Lumen Output	Color Temperature	Input Voltage	Occupancy Sensor ¹²³	Emergency Driver ¹²³
HBL	78L = 78,000	4K = 4000k 5K = 5000k	UNC = 347-480V Blank = 120-277V	ODS = Passive infrared Blank = No occupancy sensor	EM16 = 1600 lumens 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.

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 must be mounted at least 18" inches below ceiling in ambient temperatures not exceeding 42°C. Surface mounted luminaires must not be installed in ambient temperatures exceeding 44°C. 50°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.

ORDERING EXAMPLE: HBL-78L-5K

COMPATIBLE EMERGENCY DRIVERS

Emergency Driver Part Number	EM16 / EC16		EM20 / EC20		EM24 / EC24		Runtime
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	
HBL-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

HBL-SMK-4.4WIDE	= Surface-mounting kit
LED-FHB-CMK3	= Cable-mounting kit, 3 meters long
LED-FHB-CMK5	= Cable-mounting kit, 5 meters long

Wire Guard

HBL-WG-47X23	= Wire-guard
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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			
HBL-78L-4K	4000k	>80	77,545	523	148	120-277	4.36	2.18	1.89	>0.90	<20%	130,000
HBL-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

HBL-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%

