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Use hyperlite Led linear high bay light
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If you need more information about our lights,
please contact us by email or phone call

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Toll-free number: +1(855) 688 7879

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LED LIGHTING

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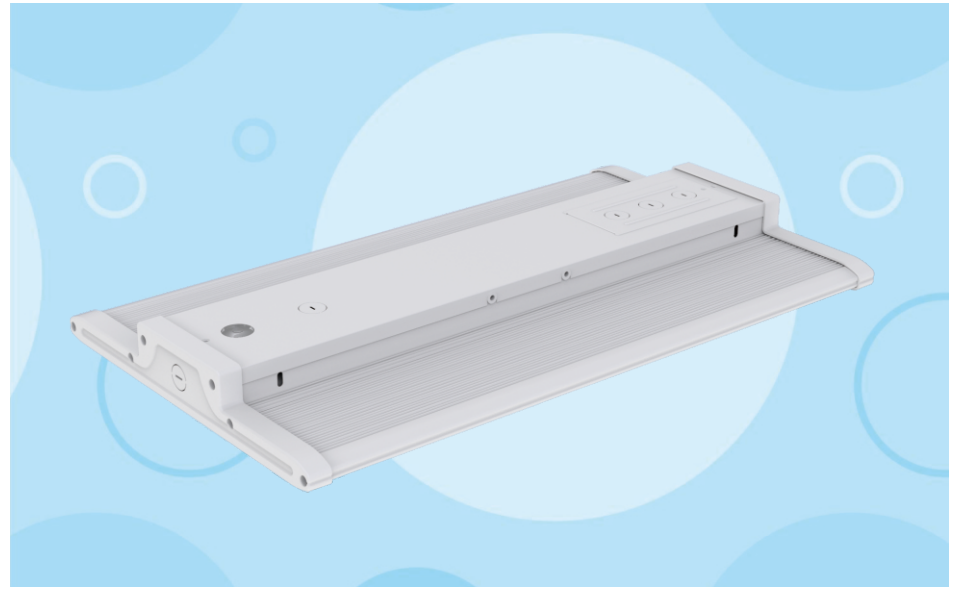
LEARN MORE

Instruction manual



Thanks for your purchase!

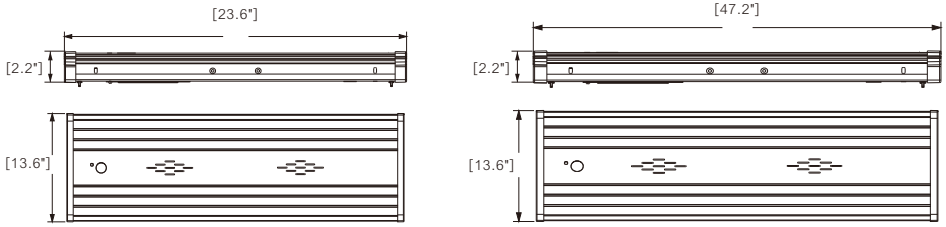
LED LINEAR HIGH BAY LIGHT

WILL Series

c UL us LISTED

FEATURES & SPECIFICATIONS

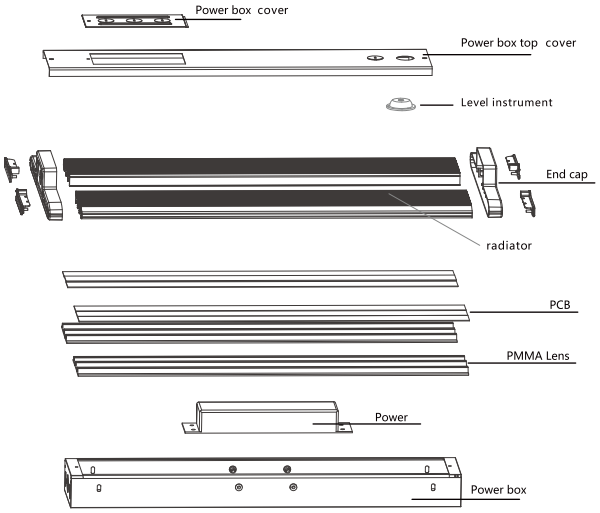
Performance Data		PHB06-110[DM]-50L0	PHB06-160[DM]-50L0	PHB12-220[DM]-50L0	PHB12-320[DM]-50L0
General	Lumens	14300LM	20800lm	28600lm	41600lm
	Efficacy	130 lm/w			
	CCT	5000K			
	CRI	>80			
	L70@25°C	>60,000 hours			
Electrical	Power	110W	160W	220W	320W
	Power factor	0.9			
	Input Voltage	AC120-277V			
	Compatible accessories	Emergency LED driver with battery & Motion sensor (Please contact the seller to purchase this product.)			
Options	Operating temperature	-40°C to 50°C			
	Listings	Listed by UL to meet UL 1598 standards for wet location and CE, RoHS approved. DLC listing. Please check the DLC Qualified Products list to confirm (www.designlights.org/QPL)			
	IP Rating	IP 40			
	Warranty	5 years			

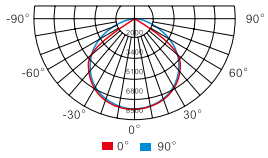


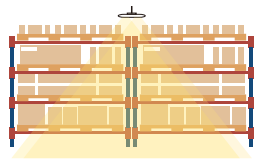
PACKAGING INFORMATION

Model	Power	Lumens	Luminaire Efficacy	Input Voltage	Qty/Ctn	Net Weight	Cross Weight	CTN Size
PHB06-110[DM]-50L0	110W	14300LM	130lm/w	120-277VAC	1	8.2 ± 1 lb	10 ± 1 lb	25.6"*15.6"*4.3"
PHB06-160[DM]-50L0	160W	20800LM				9.3 ± 1 lb	11 ± 1 lb	
PHB12-220[DM]-50L0	220W	28600LM				9.3 ± 1 lb	11 ± 1 lb	
						15 ± 1 lb	17.4 ± 1 lb	49.2"*15.6"*4.3"
PHB12-320[DM]-50L0	320W	41600LM				16.3 ± 1 lb	18.7 ± 1 lb	

STRUCTURE & ILLUMINATION



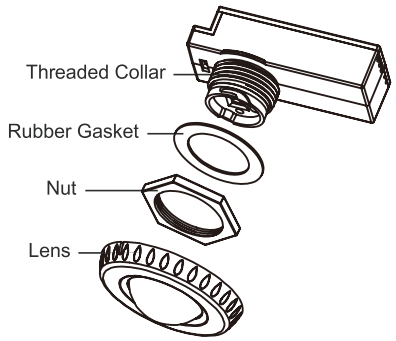


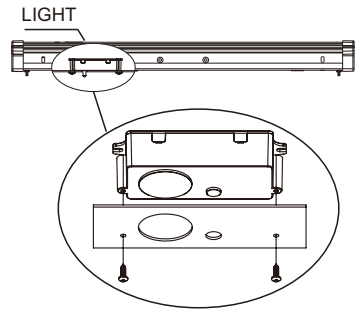


Beam Angle: 120°

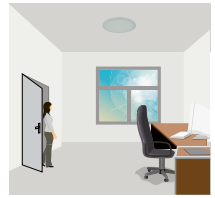
SENSOR

Remote controller

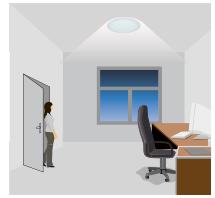




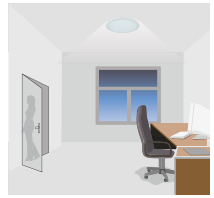
Power supply	120-277VAC
Maximum load @ -40°F~+158°F (-40°C~+70°C)	Resistive/Halogen - 800W/1200W@120/277V Fluorescent Ballast/CFL - 660W/1200W@120/277V Electronic Ballast(LED) - 5A/5A@120/277V
Dim control output	0-10V, max.25mA sinking current
Detection radius/angle	30ft @40ft Height/360°
Mounting height	Max 24ft. @Lw1 Max 40ft. @LS2
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95%RH
Temperature	-40°F~+158°F(-40°C~+70°C)



With suffcient natural light, the light does not switch on when presence is detected.



With insuffcient natural light, the sensor switches on the light automatically when presence is etected.



After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses.

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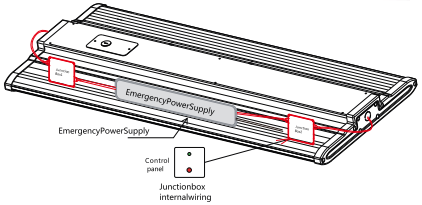
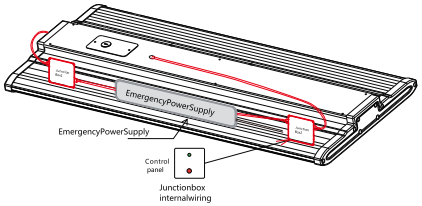
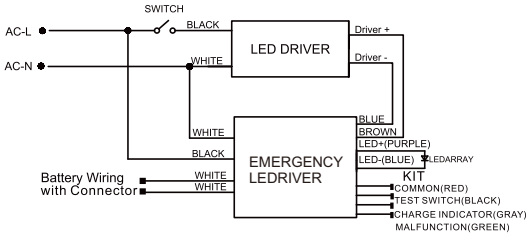
EMERGENCY LED DRIVER

- The LED Emergency Equipment for led product with external driver allows the same LED fixture to be used for both normal and emergency operation.
- In the event of a power failure, the LED Emergency Equipment switches to the emergency mode and operates the existing fixture for over 90 minutes.
- The unit contains a battery, charger and converter circuit in a single can and is available in different mounting configurations for individual fixture requirements.







UL Listed	For field or factory installation
Universal Input Voltage	100 277VAC 50 60Hz
AC Input Current	90mA max.
AC Input Power Rating	6.0W max.
Output Current and Voltage	420-800mA 25V 48V
Output Power	20W max.
Illumination Time	90 Minutes
Full Warranty	5 Years
Test Switch Charging Indicator Light	Low Voltage,illuminated Test Switch
Battery	High-Temperature, Ni-MH battery
Battery Charging Current	250mA
Recharge Time	24Hours
Temperature Rating	0°C to 50°C (32°F to 122°F)

HYPERLITE

HYPERLITE LED Luminaire

Industrial LED Linear High Bay Lights (WILL Series)

Features

- UL&CUL No E490237 Suitable for damp location
- IP40 Rated Ingress Protection

ATTENTION BEFORE YOU INSTALL
Read these instructions completely and carefully.

⚠ WARNING/ADVERTISEMENT

RISK OF ELECTRIC SHOCK
- Turn power off before inspection, installation or removal.
- Properly ground electrical enclosure.
- Follow all NEC and local codes.
- Use only UL or IEC approved wire for input/output connections.

Prepare Electrical Wiring

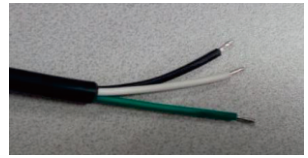
Electrical Requirements
The LED driver must be supplied with 100-277 VAC, 50/60 Hz per product label and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker.

Grounding Instructions
The grounding and bonding of the overall system shall be done in accordance with National Electric Code (NEC) Article 600 and local codes.

Save These Instructions

Use only in the manner intended by the manufacturer.
If you have any questions, contact the manufacturer.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



1.Please connect the input wire in correct way, white wire is N, black wire is L, green wire is ground connection. Pls also make sure the wire connection is fixed perfectly before using.

Announcements:

1.This equipment is only a professional installation. Non-professional personnel shall not remove or install the equipment.

2.Please read the instruction manual before installation and keep it for future reference.

3.To avoid damage, falling, electric shock or fire, please do not modify the lamp or replace accessories without confirming with the supplier

4.Maintenance/installation and replacement the lamps, please confirm to cut off the power supply, and the lamps have set up a cooling. Please make sure the lamps have been properly installed before processing power.

5.Ensure the accurate and reliable connection.

6.Ensure that the product around the vent, the lamp cannot violate any fire prevention regulations when using.

FOOTCANDLE LIGHT GUIDE

Footcandles are the most common unit of measure used by lighting professionals to calculate light levels in businesses and outdoor spaces. A footcandle is defined as the illuminance on a one square foot surface from a uniform source of light. The Illuminating Engineering Society (IES) recommends the following footcandle levels to ensure adequate illumination and safety for occupants. Below is a guideline for common areas to assist in achieving appropriate light levels with the greatest energy-efficiency.

Building Area & Task	Average Maintained Footcandles (Horizontal) (FC)	Range of Maintained Footcandles (Horizontal) (FC)	Average Maintained Footcandles (Vertical) (FC)	Range of Maintained Footcandles (Vertical) (FC)	Comments
WAREHOUSING & STORAGE					
Bulky Items—Large Labels	10		5		
Small Items—Small Labels	30		15		
Cold Storage	30-40	10-30	10	5-15	
Open Warehouse	30-40	10-30			
Warehouse w/Aisles	30-40	10-30	10	5-15	
COMMERCIAL OFFICE					
Open Office	40	30-50			@30" Above Finished Floor (AFF)
Private Office	40	30-50			@30" AFF
Conference Room	30				Matte surface reflectance for the table 40% recommended
Restroom	18	75-30			
Lunch & Break Room	15	5-20			
EDUCATIONAL (SCHOOLS)					
Classroom	40	30-50			@30" AFF
Gymnasium					
Class I (Pro or Div. 1 College)	125		30		
Class II (Div. 2 or 3 College)	80		20		
Class III (High School)	50		150		
Class IV (Elementary)	30		100		
Auditorium	75	3-10	5	2.5-10	
Corridor	25	10-40			

▲ This guide is a collaborative efort of Energy Trust of Oregon and the Lighting Design Lab, Seattle, Washington.

Building Area & Task	Average Maintained Footcandles (Horizontal) (FC)	Range of Maintained Footcandles (Horizontal) (FC)	Average Maintained Footcandles (Vertical) (FC)	Range of Maintained Footcandles (Vertical) (FC)	Comments
INDUSTRIAL/MANUFACTURING					
Assembly					
Simple (Large Item)	30		15	15-60	
Difficult (fine)	100	10-30	10	50-200	
Component Manufacturing					
Large	30	10-30	30	15-60	
Medium	70-80	25-100	50	25-100	
EXTERIOR					
Parking (Covered)	5				1FC min, 10:1 Max to Min Uniformity
Parking (Open) (Medium Activity)					
Lighting Zone 3 (Urban)	1.5	75-3	0.8	0.4-1.6	
Lighting Zone 2 (suburban)	1	0.5-2	0.6	0.3-1.2	
Gas Station Canopy	12.5	10-15			
Safety (Building Exterior)	1	0.5-2			If security is an issue- raise average level to 3
RETAIL					
General Retail (Ambient)		50			
Department Store	40	20 - 80	15	7.5-30	
Perimeter			75	35-150	
Accent Lighting (Displays)					3-10 times greater than ambient light levels
AUTOMOTIVE					
Showroom	70-80	25-100	10	7.5-30	
Service Area	50	25-10	30	15-30	
Sales Lot (Exterior)					
Lighting Zone 3 (Urban)	20	10-40	20	10-40	
Lighting Zone 2 (Suburban)	15	7.5-30	15	7.5-30	
GROCERY					
Circulation	20	10-40	7.5	3.5-15	
General Retail	70-80	25-100	20	10-40	
Perimeter			50	25-100	
BANKING					
ATM	20	10-40	15		Vertical at face of ATM

NOTES:
- This guide is based on information gathered from the IES 'The Lighting Handbook' 10th Edition. It is highly recommended that all lighting professionals refer to the full IES guide when specifying lighting projects.
- At least half of users are in the 25 - 65 age range
- Horizontal—horizontal plane that average maintained foot-candles are measured
- Vertical—vertical plane the average maintained foot-candles are measured
- It is the responsibility of the to determine and provide appropriate lighting levels for each space

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CERTIFICATE OF COMPLIANCE

UL CERTIFICATION

Certificate Number: E490237
Report Reference: E490237
Issue Date: 2018-FEBRUARY-01

c UL us LISTED

Additional Information:
See the UL Online Certifications Directory at www.ul.com/database for additional information

▲ Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.
▲ Look for the UL Certification Mark on the product

NAMING RULES

PHB06-110[DM]-50L0 Example: PHBXX-AAA[BB]-CCDE(PHB06-160[DM]-50L0)

Base						
	XX	AAA	BB	CC	D	E
Model	**Size**	**Power**	**Features**	**CCT**	**Voltage**	**Serial number**
PHB	06=600mm 12=1200mm	110=110W 160=160W 220=220W 320=320W	**NN** No function **SN** Sensing function **DM** Dimming function **EP** Emergency function **SD** Sensing+Dimming function **DE** Emergency+Dimming function	50=5000K	L=120-277Vac	0=130 lm/w

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