LHB
LED High Bay

Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

Description

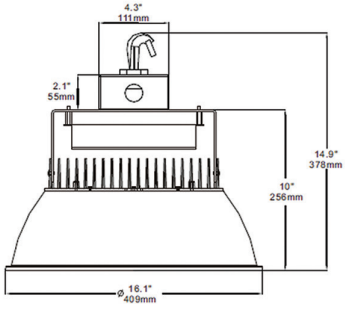
The LHB High Bay luminaire delivers the illumination performance to replace up to a 400W HID fixture one-for-one. Lumecon's unique High Bay design makes this fixture an energy saving solution for indoor applications: gymnasiums, industrial warehouse/ storage, and grocery stores.

Performance Data

Model	Watts	Equiv	Delivered Lumens	Efficacy
LHB - 90	94W	250W HID	13,050 Lm	139 LPW
LHB - 130	127W	400W HID	19,834 Lm	156 LPW
LHB - 175	177W	400W HID	24,882 Lm	141 LPW

Dimensions & Weights

Model	Width	Height	Length	Weight
LHB	16.1"	14.9"	16.1"	20 lbs.



Technical Specifications

Input Voltage: 120-277V

Housing: Die cast aluminum housing with built in heat sink and quick disconnect cable, which allows the driver to be separated from the LED module for easy maintenance.

Reflector: White anodized aluminum reflector (standard). Acrylic Prismatic reflector option available to help eliminate cave effect.

Lens: Tempered clear glass lens (standard). Additional lens offerings include prismatic drop and prismatic conical lenses. Fixture lenses are attached to the reflector using a simple clamp band.

Mounting: J-Box or Pendant Mount (standard). Additional mounting options include: Hook and 6' Cord or a Hook and 10' Cord. Mounting hook manufactured from die cast aluminum to make for a strong and easy installation.

Safety Cable: 3' Safety Cable (optional) available to serve as a fail-safe support system in emergency situations.

NEMA Plug: Plug offerings are compliant to the standards set forth by the US National Electrical Manufacturers Association (NEMA) and include both straight blade and twist lock options.

Color Temperature: 4000K and 5000K.

LED Lifetime: All LED's are rated for a minimum of 100,000 hours of continuous operation at ambient temperatures from -40°F/-40°C to 80°F/26°C.

Color Rendering Index (CRI): Minimum of 80 or higher.

Dimming: 0-10V standard dimming capability.

Surge Protection: Thermally protected 20kA/ 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. Also meets IEC61643-11 Class II / EN61643-11 Type 2, and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

Lumecon ETD™ System: The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life. To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards, UL, and IPC standards for flammability, moisture resistance and thermal shock.

Certification Data: ETL Listed to UL 1598, UL 8750 and CSA 22.2 No. 250. *Full compliance and test documentation is available for TM-21, LM-79, LM-80, ETL Listing to UL1598 and UL 8750.

Manufacturing Origin: US Manufactured and Assembled.

Buy American Act: The product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations.

Warranty: 10 Year L70 performance based warranty. For full warranty terms, please visit our website: www.lumecon.com

Email: sales@lumecon.com Website: www.lumecon.com Phone: 248-477-5009
Copyright © 2023 Lumecon LLC. All Rights Reserved.
Note: Specifications and photometric data are subject to change at any time without notice.
Please see www.lumecon.com for current specifications and documentation.

LHB
LED High Bay

Ordering Information

LHB-175 - Options / Ordering Example: LHB-175-AL-G-1-NW-X-HC-X-515P-X

Wattage	Reflector	Lens	Voltage	Color Temperature	Guard	Mounting Methods
90 - 95 Watts	AL - Aluminum	X - None	1 - 120v-277v	NW - 4000K	X - None	JP - J-Box or Pendant
130 - 127 Watts	AC - Acrylic Prismatic	G - Tempered Glass	2 - 347v-480v	CW - 5000K	1 - Wire*	HC - Hook & 6' Cord
175 - 176 Watts	AD - Acrylic Diffuser	PD - Prismatic Drop				HC0 - Hook & 10' Cord
	CL - Clear Lens	PC - Prismatic Conical				
		AD - Acrylic Diffuser			*Will not fit on PD Lens	

Safety Cable	Factory Installed NEMA Plug	Controls / OCC Sensing
X - None	X - None	X - None
03 - 3' Cable	515P - 15 amp 120V Straight Blade Plug	OC1 - On/Off
	L515P - 15 amp 120V Twist Lock Plug	OC2 - Dim/High
	L615P - 15 amp 240V Twist Lock Plug	
	L715P - 15 amp 277V Twist Lock Plug	

Accessories
FSIR-100 - OCC Sensor Remote
LV - Lutron Vive Attached fixture control[1]
1 - VIVE is a trademark of Lutron Electronics Co., Inc.

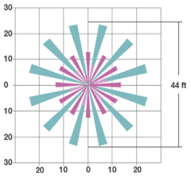
If OCC Sensor Option is selected, mounting height specifications need to be clarified:

- ☐ Mounting height between 0' - 10'
- ☐ Mounting height between 10' - 40'
- ☐ Mounting height over 40'+

If Mounting height and parameter settings not specified when ordered. Default mounting height is 10-40' lens and preset factory settings.

OCC Sensor Patterns

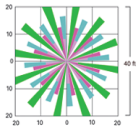
0' - 10' Mounting Height



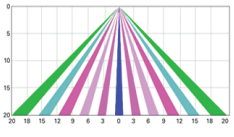
Coverage Top View

Coverage Side Area

10' - 40' Mounting Height

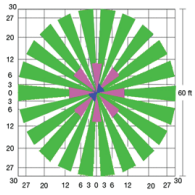


Coverage Top View

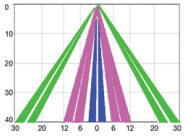


Coverage Side Area

40' + Mounting Height



Coverage Top View



Coverage Side Area

Email: sales@lumecon.com Website: www.lumecon.com Phone: 248-477-5009
Copyright © 2023 Lumecon LLC. All Rights Reserved.
Note: Specifications and photometric data are subject to change at any time without notice.
Please see www.lumecon.com for current specifications and documentation.

Options & Accessories Images

Reflector Options:

LHB Aluminum

LHB Acrylic Prismatic

LHB Acrylic Diffuser

LHB Acrylic Clear Lens

Lens Options:

None

LHB Tempered Glass

LHB Prismatic Drop

LHB Prismatic Conical

LHB Acrylic Diffuser Lens

Performance Data

Electrical Load Data

Fixture Model	Drive Current (mA)	System Watts (W)	AC Current Load (A) 120V	AC Current Load (A) 277V
LHB-90	116	95.0	0.84	0.37
LHB-130	62	127.0	1.18	0.51
LHB-175	83	176.6	1.64	0.71

Lumen Maintenance

Data in the table below references projected performance in a 25°C ambient and is based on 10,000 hours of LED testing. Performance data has been tested per IESNA LM-80-08 and projected per IESNA TM-21-11.

Use the lumen maintenance factor that corresponds to the desired number of operating hours below to calculate LLF.

	Lumen Maintenance Factors @ 25°C, by hours:				
Fixture Model	0	25,000	50,000	70,000	100,000
LHB-90	1.0	0.89	0.80	0.73	0.64
LHB-130	1.0	0.95	0.91	0.88	0.84
LHB-175	1.0	0.94	0.90	0.86	0.81

Email: sales@lumecon.com Website: www.lumecon.com Phone: 248-477-5009
Copyright © 2023 Lumecon LLC. All Rights Reserved.
Note: Specifications and photometric data are subject to change at any time without notice.
Please see www.lumecon.com for current specifications and documentation.