Lumecon
WORKMEN SERIES

LWS - LHB2
LED High Bay

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

Description

The LWS-LHB2 linear High Bay fixture is the first of its kind in the Lumecon Workmen Series and delivers the illumination performance to replace conventional lighting systems, such as HID and fluorescent, one-for-one. The unique linear high bay design makes this a perfect energy saving solution for manufacturing, storage, warehousing and other indoor spaces with mounting heights from 10' to 40'.

Technical Specifications

Input Voltage: 120-277V or 347-480V

Lens: No lens (standard). An opaque diffused acrylic lens is available for applications where glare reduction is needed.

Mounting: Fixture mounting options include: Pendant, Surface Mount Brackets, Toggle & Cable, Safety Hook / No Cord, and Safety Hook with 6' Cord.

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 104°F/40°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.

DesignLights Consortium® (DLC) Qualified Product: Unless noted, not all versions of this product may be DLC® Qualified. For a complete list of Lumecon DLC® Qualified Products visit: www.designlights.org.

Certification Data: CSA Listed to UL 1598, UL 8750. *Full compliance and test documentation is available for TM-21, LM-79, LM-80, CSA 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

Performance Data			NW (4000K, 80 CRI)		CW (5000K, 80 CRI)		
	Lens	Watts	Lumens	Efficacy	Lumens	Efficacy	Equiv
LWS-LHB2-60	None	62W	9,454	152	9,999	161	4-LAMP T8, 250W HID
	Diffused	62W	8,963	145	9,460	153	
LWS-LHB2-80	None	80W	11,831	148	12,496	156	4-LAMP T8, 250W HID
	Diffused	80W	11,172	140	11,792	147	
LWS-LHB2-100	None	100W	14,462	145	15,371	154	4-LAMP T5HO, 4-LAMP T5, 400W HID
	Diffused	100W	13,777	138	14,543	145	
LWS-LHB2-120	None	120W	15,720	131	18,493	154	4-LAMP T5HO, 4-LAMP T5, 400W HID
	Diffused	120W	16,576	138	17,496	146	
LWS-LHB2-150	None	150W	21,475	143	22,648	151	4-LAMP T5HO, 6-LAMP T5, 400W HID
	Diffused	150W	20,300	135	21,427	143	
LWS-LHB2-190	None	190W	27,309	144	28,825	152	4-LAMP T5HO, 8-LAMP T8
	Diffused	190W	25,248	133	27,240	143	

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Note: Specifications and photometric data are subject to change at any time without notice.
Please see www.lumecon.com for current specifications and documentation.

40kV EXTREME SURGE PROTECTION · MADE IN MICHIGAN · 10 YEAR WARRANTY · Buy American Act Compliant · GSA Schedule

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Ordering Information

LWS-LHB2 - Options / Ordering Example: LWS-LHB2-120-D-1-NW-80-X

Wattage	Lens	Voltage	Color Temperature	CRI	Mounting Methods
60 - 60 Watts	X - None	1 - 120v-277v	NW - 4000K	80 - 80 CRI	X - None
80 - 80 Watts	D - Diffused	2 - 347v-480v	CW - 5000K	90 - 90 CRI	P - Pendant
100 - 100 Watts					SM - Surface Mount
120 - 120 Watts					TC - Toggle & Cable
150 - 150 Watts					TC6 - Toggle & Cable / 6' Cord*
190 - 190 Watts					H - Safety Hook / No Cord
					HC6 - Safety Hook / 6' Cord*
					NEMA Plug used with TC6 & HC6 Mounts Only

Options & Accessories

WG - Wire Guard

BB - 120-277V BBU

OC1 - On/Off Occupancy Sensor

OC2 - Dim/High Occupancy Sensor

515P - 15 amp 120V Straight Blade Plug

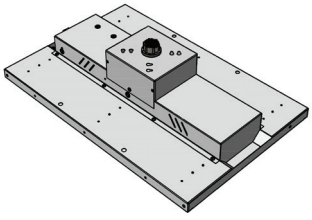
L515 - 15 amp 120V Twist Lock Plug

L615 - 15 amp 240V Twist Lock Plug

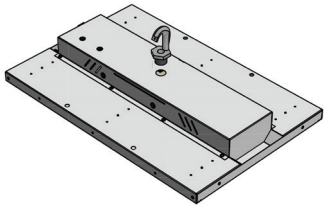
L715 - 15 amp 277V Twist Lock Plug

LV - Lutron Vive Attached fixture control[1]

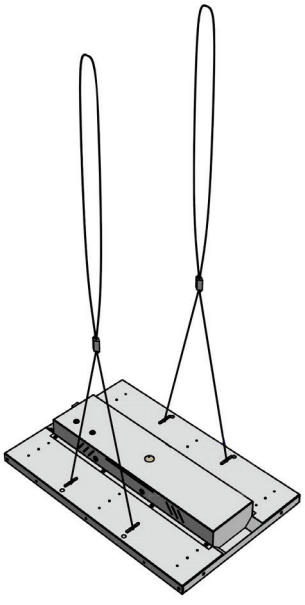
1 - VIVE is a trademark of Lutron Electronics Co., Inc.



LWS-LHB2 Surface Mount
LWS-LHB2 Pendant Mount



LWS-LHB2 Hook Mount



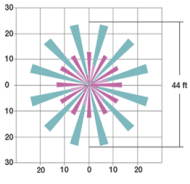
LWS-LHB2 Toggle & Cable

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

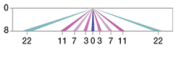
- ☐ Mounting height between 0' - 10'
- ☐ Mounting height between 10' - 40'
- ☐ Mounting height over 40'+

OCC Sensor Patterns

0' - 10' Mounting Height

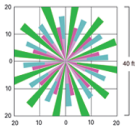


Coverage Top View

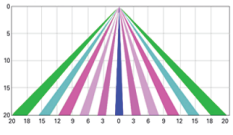


Coverage Side Area

10' - 40' Mounting Height

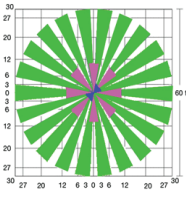


Coverage Top View

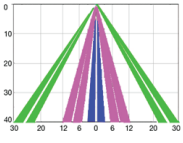


Coverage Side Area

40' + Mounting Height



Coverage Top View



Coverage Side Area

Dimensions & Weights

Model	Width	Length	Height (w/ junction box and OCC)	Height (w/o junction box and w/o OCC)	Height (w/ junction box and w/o OCC)	Height (w/o junction box and w/ OCC)	Weight
LWS-LHB2	15.30"	23"	7.13"	2.80"	4.98"	4.08"	5 lbs.

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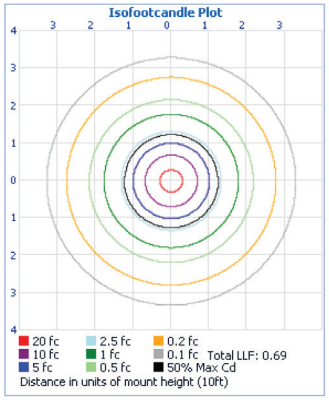
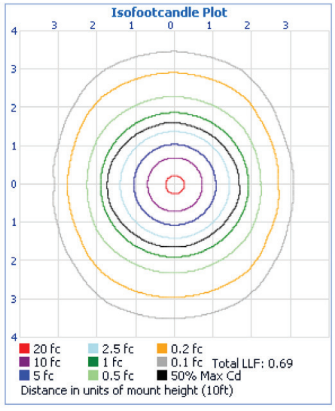
Photometric Data

For .ies files of this product, please visit the downloads tabs on the LWS-LHB product page: http://lumecon.com/products/lws-hb/

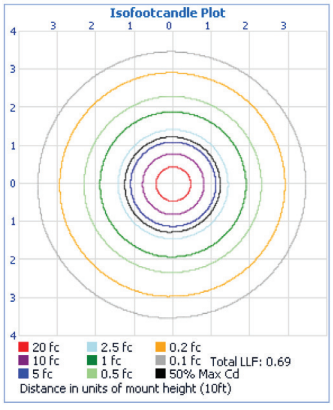
LWS-LHB2-60-NW-Diffused



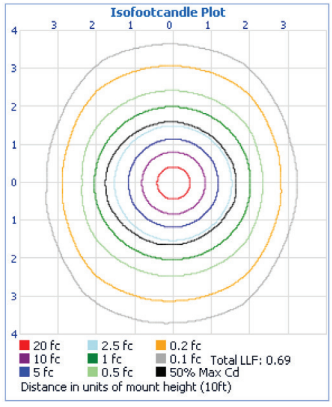
LWS-LHB2-60-NW-No Lens



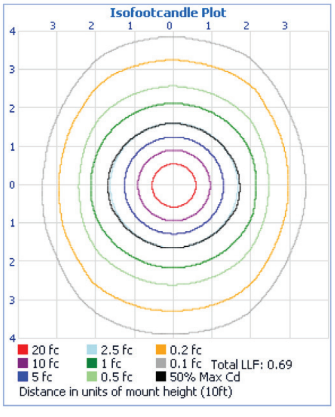
LWS-LHB2-80-NW-Diffused



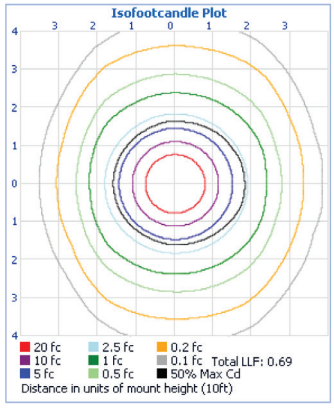
LWS-LHB2-80-NW-No Lens



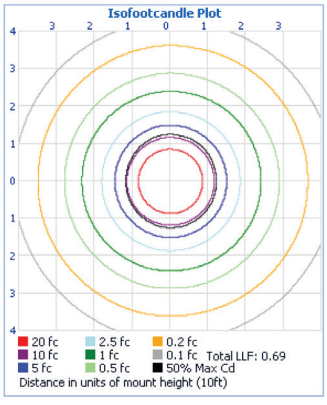
LWS-LHB2-100-NW-No Lens



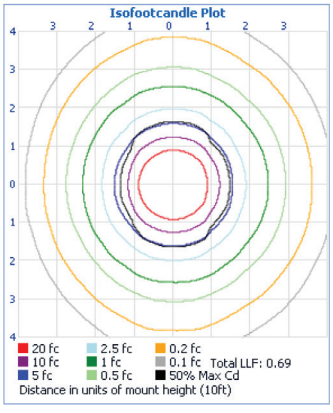
LWS-LHB2-150-NW-No Lens



LWS-LHB2-190-NW-Diffused



LWS-LHB2-190-NW-No Lens



Performance Data

ELECTRICAL LOAD DATA

Fixture Model	Drive Current (mA)	System Watts (W)	AC Current Load (A)			
			120V	208V	240V	277V
LWS - LHB2 - 60	700	62.20	0.58	0.33	0.29	0.25
LWS - LHB2 - 80	800	79.0	0.73	0.42	0.37	0.32
LWS - LHB2 - 100	1050	102.10	0.95	0.55	0.47	0.41
LWS - LHB2 - 120	1360	120.00	1.11	0.64	0.56	0.48
LWS - LHB2 - 150	1700	147.00	1.36	0.79	0.68	0.59
LWS - LHB2 - 190	1050	186.40	1.73	1.00	0.86	0.75

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