

## MLHB1

### Applications

The MLHB1 is a compact high bay designed to provide a cost effective solution for new construction or retrofit projects. The design and performance of the MLHB1 provides both installation and energy savings for low or high bay settings in industrial, commercial, and retail applications.

Project Name:	
Catalog Number:	
Type:	
Note:	
Date:	



MLHB1118LUNVFD8CSLPWD15W



MLHB1224LUNVFD8CSLPWD15W



### Construction & Design

- Narrow lightweight 1', 2', 3' and 4' steel body along with aluminum extrusions allow for optimal thermal performance as well as ease of handling during installation
- Impact resistant polycarbonate lenses available in three light distribution types. Medium distribution meets UGR requirements for DLC 5.1 [excluding the 09L]
- Field selectable CCT between 4000K or 5000K
- Engineered and qualified for use in ambient temperatures up to 55°C when suspended 18" below the ceiling. Engineered and qualified for use in ambient temperatures up to 50°C when surface mounted.

### Additional Options

- Surface, pendent, and suspended mounting options
- Factory or Field Installed Battery Back Up available. UNV Option is Certified in CA Title 20
- Single or Bulk pack available

### Electrical

- Available in 120v-277v and 277v-480v
- Standard 0-10v dimming driver
- 6kV/3kA surge protection standard
- Power Factor > .90\*
- Total Harmonic Distortion < 20%\*

\*Note: Varies based on option

### Control and Sensor Options

- Fixture comes sensor ready for field installed sensor options
- Remote Programming Sensors

### Lumen Maintenance

See lumen maintenance table on page 2

### Fixture Certifications & Listings

- UL/cUL Listed
- UL Damp Listed
- DesignLights Consortium™ premium qualified luminaire
- Not all MLHB1 models are DLC Premium qualified. Visit the [DLC QPL](#) for listed classification

### Warranty

See Orion's [Product Limited Warranty](#) for more details and information

### Performance Information, 277v, 5000K, ≥80 CRI<sup>1</sup>

Nominal Lumen Code	LPWD (Wide)			LPGR (Glare Reduction)			LPND (Narrow)		
	Wattage	Lumens	LPW	Wattage	Lumens	LPW	Wattage	Lumens	LPW
<b>1'</b>									
09L	65w	9,309lm	144	64w	9,110lm	142	65w	9,101lm	141
12L	83w	12,278lm	147	84w	12,333lm	146	83w	11,892lm	143
15L	110w	15,841lm	144	112w	15,698lm	140	111w	15,585lm	141
18L	125w	18,063lm	144	124w	17,666lm	142	124w	17,274lm	140
<b>2'</b>									
24L	166w	23,976lm	145	167w	24,059lm	144	166w	23,605lm	142
30L	209w	30,027lm	144	210w	29,579lm	141	209w	29,223lm	140
<b>3'</b>									
36L	249w	36,079lm	145	250w	35,987lm	144	250w	35,530lm	142
<b>4'</b>									
48L	329w	47,645lm	145	329w	47,376lm	144	331w	47,193lm	142
60L	409w	59,603lm	146	410w	59,415lm	145	407w	59,125lm	145

### Lumen Maintenance<sup>2</sup>

Fixture Size	Nominal Lumen Code	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
				L70	L80	L90
1'	09L	9,000	25°C	170,000	107,000	51,000
			55°C	170,000	107,000	51,000
1'	12L	12,000	25°C	170,000	107,000	51,000
			55°C	166,000	105,000	50,000
1'	15L	15,000	25°C	170,000	107,000	51,000
			55°C	152,000	96,000	46,000
1'	18L	18,000	25°C	170,000	107,000	51,000
			55°C	149,000	94,000	45,000
2'	24L	24,000	25°C	170,000	107,000	51,000
			55°C	153,000	96,000	46,000
2'	30L	29,000	25°C	170,000	107,000	51,000
			55°C	142,000	89,000	43,000
3'	36L	36,000	25°C	170,000	107,000	51,000
			55°C	155,000	98,000	47,000
4'	48L	48,000	25°C	170,000	107,000	51,000
			55°C	152,000	95,000	46,000
4'	60L	60,000	25°C	170,000	107,000	51,000
			55°C	139,000	87,000	42,000

### Additional Specification Information

<sup>1</sup> Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

<sup>2</sup> Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance

Ordering Information Example (NOTE: No dashes or spaces unless noted below)  
**MLHB1224LUNVFD8CSLPWD15W**

Ordering Information [Enter Selected Catalog Number Below]

Series	Fixture Size	Nominal Lumen Code <sup>3</sup>	Voltage	Fixture Type	CRI; Color Temp	Lens Options	Power Connection	Fixture Options	Packaging Options
<b>MLHB1=</b> TritonPro Compact Linear High Bay, Gen 1	<b>1=</b> 1' <b>2=</b> 2' <b>3=</b> 3' <b>4=</b> 4'	<b>1'</b> <b>09L=</b> 9,000lm <b>12L=</b> 12,000lm <b>15L=</b> 15,000lm <b>18L=</b> 18,000lm  <b>2'</b> <b>24L=</b> 24,000lm <b>30L=</b> 30,000lm (available for <b>UNV</b> only) <b>3'</b> <b>30L=</b> 30,000lm (available for <b>HMV</b> only) <b>36L=</b> 36,000lm  <b>4'</b> <b>48L=</b> 48,000lm <b>60L=</b> 60,000lm	<b>UNV=</b> 120v-277v <b>HMV=</b> 277v-480v	<b>FD=</b> Full Dimming	<b>8CS=</b> 80CRI; 4000K/ 5000K	<b>LPWD=</b> Polycarbonate, Wide Distribution <b>LPGR=</b> Polycarbonate, Glare Reduction Medium Distribution <b>LPND=</b> Polycarbonate Aisle Narrow Distribution	<b>15W=</b> 15' whip, white (no plugs, no dimming wires)	<b>(Blank)=</b> Sensor Ready Base (see field install accessories table for sensor options)  <b>BB=</b> Battery Back Up, 90 mins (refer to lumen table below) <sup>4</sup>	<b>(Blank)=</b> Bulk Pack <b>SP=</b> Single Pack

<sup>3</sup>Note: All fixtures are set to 5000K at the factory

### Battery Back Up - Lumen Output in Emergency Mode

Nominal Lumen Code	Voltage	Lumens
09L-36L	UNV	3,625lm
48L-60L	UNV	5,800lm
09L-36L	HMV	4,350lm
48L-60L	HMV	5,800lm

### CCT Adjustable Switch



### Additional Specification Information

<sup>3</sup> For actual lumens see performance table

<sup>4</sup> Refer to dimensional drawing for construction of Battery Back Up. Battery back up not available with pendant or surface mount options.

### Accessories (Field Installed)

Suspended Mounting Options	
HW-FC008	Hanging cable, Set of Two: Adjustable 180", Loop, Y-Fit with Snap Hooks (1 Set per Fixture)
Surface Mounting Options	
MLHB-SFM01-KIT	Surface Mount Kit: MLHB, 1'-2', Rigid Surface Mount Kit
MLHB-SFM02-KIT	Surface Mount Kit: MLHB, 3'-4', Rigid Surface Mount Kit
Pendent Mounting Options	
MLHB-PMR01-KIT	Rigid Pendent Mount Kit: MLHB Rigid Pendent Mount Kit, 3/4" Pipe
Battery Back Up Options <sup>4,5</sup>	
MLHB-UNV-BBKIT-09L18L	Battery Back Up Kit: MLHB, 1', 120-277v, 09L-18L, provides 3,625lm. No Cord.
MLHB-UNV-BBKIT-24L36L	Battery Back Up Kit: MLHB, 2', 120-277v, 24L-36L, provides 3,625lm. No Cord.
MLHB-UNV-BBKIT-48L60L	Battery Back Up Kit: MLHB, 4', 120-277v, 48L-60L, provides 5,800lm. No Cord.
MLHB-HMV-BBKIT-09L18L	Battery Back Up Kit: MLHB, 1', 277v-480v, 09L-18L, provides 4,350lm. No Cord.
MLHB-HMV-BBKIT-24L36L	Battery Back Up Kit: MLHB, 2', 277v-480v, 24L-36L, provides 4,350lm. No Cord.
MLHB-HMV-BBKIT-48L60L	Battery Back Up Kit: MLHB, 4', 277v-480v, 48L-60L, provides 5,800lm. No Cord.
MLHB-EM-15C-KIT	15' Cord, 4 Conductor Cord, White, 600v Rating, Strain Relief, Access Plate, Use with MLHB Emergency

Remote Required for Commissioning	
<a href="#">RM51</a>	Vealite Keilton Sensor IR Remote Controller (for <b>ESF06R</b> and <b>EFS07-AUX-HB40</b> sensors)
Field Installed Sensor Options	
<a href="#">EFS06R</a> <sup>6</sup>	Vealite Microwave Occupancy Sensor, Photosensor, High and Low End Trim 0-10V Dimming, IR Remote Programmable, 40' Mounting Height Max
<a href="#">EFS07-AUX-HB40</a> <sup>6</sup>	Vealite PIR Occupancy Sensor, Photosensor, High and Low End Trim 0-10V Dimming, IR Remote Programmable, 40' Mounting Height Max
<a href="#">EFS106-AUX-HB40</a>	Vealite Keilton Bluetooth Mesh: Wireless Fixture Controller, PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Daylight Harvesting, High End Trim, Luminaire Level Lighting Control, Wireless Zones, Time-of-Day Scheduling, Keilton Mobile App Programmable, 40' Mounting Height Max
<b>Note:</b> For more information about these sensors, visit our <a href="#">Controls Landing Page</a>	

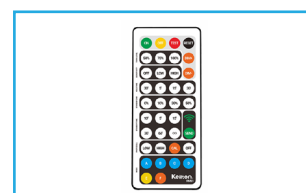
### Accessories (Field Installed)



Vealite Sensor  
(EFS06R)



Vealite Sensor  
(EFS07-AUX-HB40 or  
EFS106-AUX-HB40)



Handheld Sensor Remote  
(RM51)

### Ambient Operating Temperatures

Nominal Lumen Code	Standard Operating Range	With Battery Back Up
All lumen packages	-40°C to 55°C [-40°F to 131°F]	0°C to 50°C [32°F to 122°F]

Sensor Type	Operating Range
EFS06R	0°C to 55°C [32°F to 131°F]
EFS07-AUX-HB40	0°C to 55°C [32°F to 131°F]
EFS106-AUX-HB40	0°C to 55°C [32°F to 131°F]

### Additional Specification Information

<sup>4</sup> Refer to dimensional drawing for construction of Battery Back Up. Battery back up not available with pendant or surface mount options.

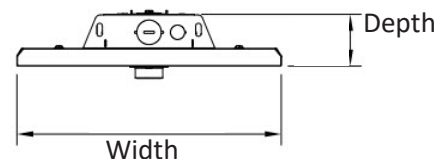
<sup>5</sup> If a cord is needed, order MLHB-EM-15C-KIT

<sup>6</sup> Requires remote for commissioning and/or modifying settings. See accessories table

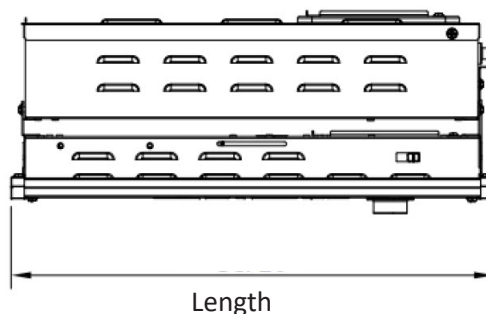
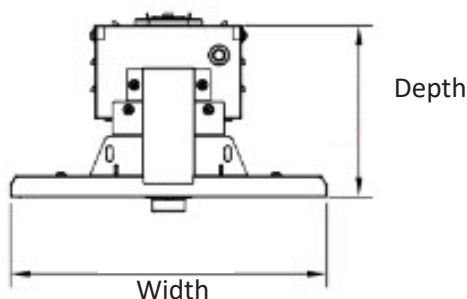
### Physical Information

Nominal Lumen Code	Length	Width	Depth	Depth (Including Battery Back Up)	Weight <sup>5</sup>
09L/12L/15L/18L	14.25"	9.52"	1.85"	5.75"	4.50lbs.
24L/30L-UNV	22.91"	9.52"	1.85"	4.63"	6.00lbs.
30L-HMV/36L	35.40"	9.52"	1.85"	4.63"	8.50lbs.
48L/60L	44.02"	9.52"	1.85"	4.63"	10.00lbs.

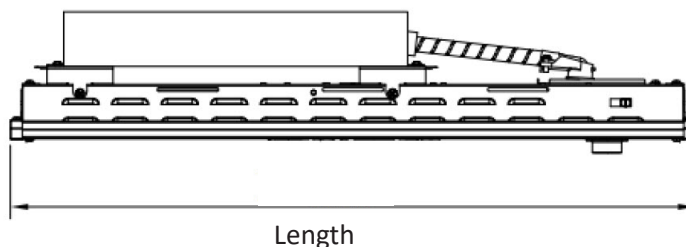
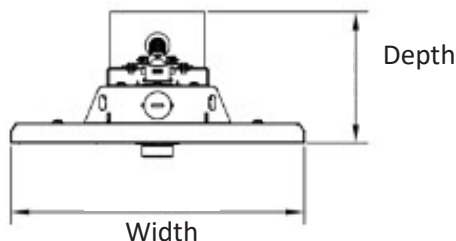
### Standard Dimensions



### 1' Battery Back Up Dimensions [09L/12L/15L/18L]



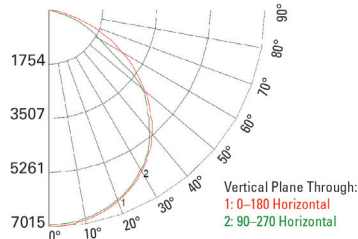
### 2'/3'/4' Battery Back Up Dimensions [24L/30L/36L/48L/60L]



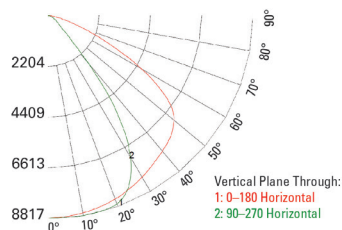
### Photometrics

Visit [orionlighting.com](http://orionlighting.com) to obtain all .IES files

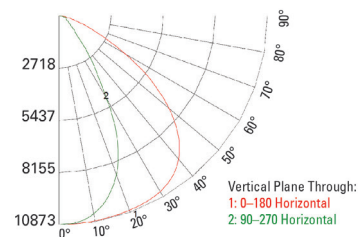
#### 18L 5000K LPWD



#### 18L 5000K LPGR



#### 18L 5000K LPND



### Additional Specification Information

<sup>5</sup> Weight will vary based on option selection