



TRITONPRO COMPACT LINEAR HIGH BAY, GEN 1

MLHB1



MLHB1118LUNVFD8CSLPGR15W



MLHB1224LUNVFD8CSLPGR15W

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



Intended Use

- 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 offer both installation and energy savings for low or high-bay settings in industrial, commercial, and retail applications.

Construction

- Narrow lightweight steel body, along with aluminum extrusions, allows for optimal thermal performance in ambient temperatures up to 55°C, as well as ease of handling during installation.
- Impact-resistant polycarbonate lenses are available in three light distribution types.
- General Medium distribution meets UGR requirements for DLC 5.1 (excluding the 09L).

Electrical

- L70 at 170,000 hours at 25°C [see page 2 for lumen maintenance table].
- 120-277 and 277V-480V driver options come standard with 0-10V dimming.
- 6kV/3kA surge protection per ANSI C82.77-5-2015 recommendations.
- Field selectable CCT between 4000K and 5000K.

Control and Sensor Options

- Fixture comes standard with sensor base for field-installed standalone and Bluetooth Mesh controls.

Additional Options

- Factory and field installable battery backup available.

Installation

- Design to be mounted by surface brackets, suspended cables, or pendant mount.
- Engineered and qualified for use in ambient temperatures up to 55°C when suspended 18" below the ceiling or for use in ambient temperatures up to 50°C when surface mounted.

Fixture Certifications & Listings

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

Warranty

- 5 year warranty standard.
- Optional 10 year warranty available at additional cost.
- See Orion's [Product Limited Warranty](#) for more details and information.

Standard Part Number	DLC Product ID	DLC Listing	Standard Part Number	DLC Product ID	DLC Listing
MLHB1115LUNVFD8CSLPGR15W	S-AX8PM4	Premium	MLHB1115LHMVFD8CSLPGR15W	S-WEPG4F	Premium
MLHB1118LUNVFD8CSLPGR15W	S-8Q2T09	Premium	MLHB1118LHMVFD8CSLPGR15W	S-X3BUD1	Premium
MLHB1224LLUNVFD8CSLPGR15W	S-GIPOBN	Premium	MLHB1224LHMVFD8CSLPGR15W	S-4DQJNX	Premium
MLHB1230LLUNVFD8CSLPGR15W	S-UWRX0K	Premium	MLHB1230LHMVFD8CSLPGR15W	S-JGQ4D9	Premium
MLHB1336LLUNVFD8CSLPGR15W	S-VJ502I	Premium	MLHB1336LHMVFD8CSLPGR15W	S-FZOC9Q	Premium
MLHB1448LUNVFD8CSLPGR15W	S-18GTZ7	Premium	MLHB1448LHMVFD8CSLPGR15W	S-BFSW9M	Premium



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

MLHB1224LUNVFD8CSLPGR15W

Ordering Information (Enter Selected Catalog Number Below for Factory-Installed Options)

Series	Fixture Size	Nominal Lumen Code ¹		Voltage	Fixture Type	CRI; Color Temp*
MLHB1 = TritonPro Compact Linear High Bay, Gen 1	1 = 1' 2 = 2' 3 = 3' 4 = 4'	1' 09L = 9,000lm 12L = 12,000lm 15L = 15,000lm 18L = 18,000lm 2' 24L = 24,000lm 30L = 30,000lm [available for UNV only]	3' 30L = 30,000lm [available for HMV only] 36L = 36,000lm 4' 48L = 48,000lm 60L = 60,000lm	UNV = 120v-277v HMV = 277v-480v	FD = Full Dimming	8CS = 80CRI; 4000K/ 5000K
						*Note: All fixtures are set to 5000K at the factory

Lens Options	Power Connection	Fixture Options	Packaging Options
LPGR = Polycarbonate, General Medium Distribution LPWD = Polycarbonate, Wide Distribution LPND = Polycarbonate, Aisle Narrow Distribution	15W = 15' whip, white (no plugs, no dimming wires) 15WSB151 = 15' whip, white Straight blade plug 15A 120v 15WSB202 = 15' whip, white Straight blade plug 20A 277v 15WTL151 = 15' whip, white Twist-lock plug 15A 120v 15WTL152 = 15' whip, white Twist-lock plug 15A 277v 15WTL201 = 15' whip, white Twist-lock plug 20A 120v 15WTL202 = 15' whip, white Twist-lock plug 20A 277v 15WTL204 = 15' whip, white Twist-lock plug 20A 480v PF = Platform Plug and Play Connector [Cords are sold separately - to view our guide click here] PFD = Platform Plug and Play Connector with Dimming Leads [Cords are sold separately - to view our guide click here]	[Blank] = Sensor Ready Base [see field install accessories table for sensor options] BB = Battery Back Up, 90 mins [refer to lumen table on Page 5]	[Blank] = Bulk Pack 4 per Carton SP = Single Pack
	Other modular wiring available. For more information, reach out to an Orion representative. ²		

Additional Specification Information

¹ For actual lumens see performance table

² Special order. Contact your Orion representative for lead times



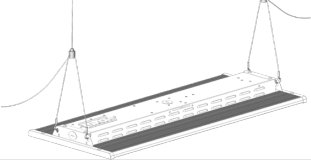
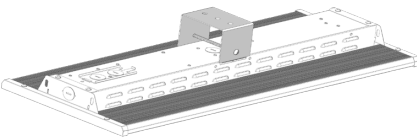
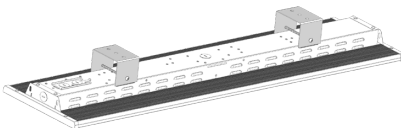
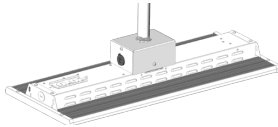
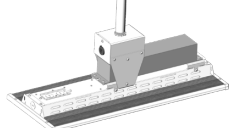
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Accessories (Field Installed) [View our Install Instructions Here](#)

Battery Back Up Options ^{3,4}	
MLHB-UNV-BBKIT-09L18L	Battery Back Up Kit: MLHB, 1', 120-277v, 09L-18L, provides 25w, 3,625lm. No Cord.
MLHB-UNV-BBKIT-24L36L	Battery Back Up Kit: MLHB, 2', 120-277v, 24L-36L, provides 25w, 3,625lm. No Cord.
MLHB-UNV-BBKIT-48L60L	Battery Back Up Kit: MLHB, 4', 120-277v, 48L-60L, provides 40w, 5,800lm. No Cord.
MLHB-HMV-BBKIT-09L18L	Battery Back Up Kit: MLHB, 1', 277v-480v, 09L-18L, provides 30w, 4,350lm. No Cord.
MLHB-HMV-BBKIT-24L36L	Battery Back Up Kit: MLHB, 2', 277v-480v, 24L-36L, provides 30w, 4,350lm. No Cord.
MLHB-HMV-BBKIT-48L60L	Battery Back Up Kit: MLHB, 4', 277v-480v, 48L-60L, provides 40w, 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	
RM51	Keilton Basic Sensor IR Remote Controller (for ESF06R and EFS07-AUX-HB40 sensors)
Field Installed Sensor Options	
EFS06R	Keilton Basic: Microwave Occupancy Sensor, Photosensor, High and Low End Trim 0-10V Dimming, IR Remote Programmable, 40' Mounting Height Max (requires RM51 for commissioning and or modifying)
EFS07-AUX-HB40	Keilton Basic: PIR Occupancy Sensor, Photosensor, High and Low End Trim 0-10V Dimming, IR Remote Programmable, 40' Mounting Height Max (requires RM51 for commissioning and or modifying)
EFS106-AUX-HB40	Keilton + Autani 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
Other controls are available. For more information, reach out to an Orion representative ²	

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	
MLHB-BB-PMR01-KIT	Battery Backup Rigid Pendent Mount Kit: MLHB Rigid Pendent Mount Kit, 3/4" Pipe [only 2 ft., 3 ft., and 4 ft. fixture lengths]	

Platform Connector



CCT Adjustable Switch



Additional Specification Information

² Special order. Contact your Orion representative for lead times

³ For Battery backup construction, refer to the dimensional drawing. Surface mount kits and 1' fixture pendant mount are not compatible with battery backups

⁴ If a cord is needed, order MLHB-EM-15C-KIT



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Performance Information, 277v, 5000K, ≥80 CRI⁵

Nominal Lumen Code	LPWD (Wide)			LPGR (General)			LPND (Narrow)		
	Wattage	Lumens	LPW	Wattage	Lumens	LPW	Wattage	Lumens	LPW
1'									
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
2'									
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
3'									
36L	249w	36,079lm	145	250w	35,987lm	144	250w	35,530lm	142
4'									
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 Maintenance⁶

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

⁵ Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

⁶ Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance



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Battery Back Up - Lumen Output in Emergency Mode

Nominal Lumen Code	Voltage	Wattage	Lumen Output
09L-36L	UNV	25w	3,625lm
48L-60L	UNV	40w	5,800lm
09L-36L	HMV	30w	4,350lm
48L-60L	HMV	40w	5,800lm

Ambient Operating Temperatures

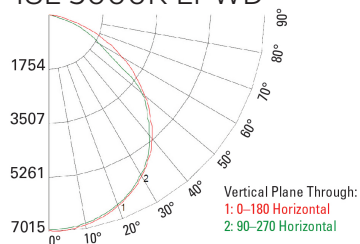
Nominal Lumen Code	Standard Operating Range	With Battery Back Up
All lumen packages	-40°C to 55°C [-40°F to 131°F]	0°C to 50°C [32°F to 122°F]
Operating Ranges with Sensors*		
EFS06R	0°C to 55°C [32°F to 131°F]	
EFS07-AUX-HB40	0°C to 55°C [32°F to 131°F]	
EFS106-AUX-HB40	0°C to 55°C [32°F to 131°F]	

*If a sensor is required in a freezer application, please contact your Orion representative

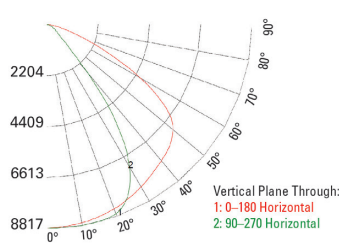
Photometrics

Visit orionlighting.com to obtain all .IES files

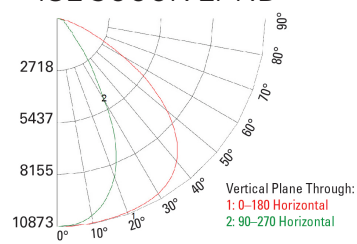
18L 5000K LPWD



18L 5000K LPGR



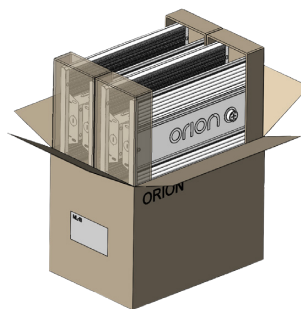
18L 5000K LPND



Packaging Information



Representative Pallet for 14.25" Configuration



Representative Box for 14.25" Configuration

Nominal Lumen Code	Fixture Length	Standard Fixture** Qty per Pallet
09L 12L 15L 18L	14.25"	200
24L 30L UNV	22.91"	160
30L HMV 36L	35.40"	80
48L 60L	44.02"	80



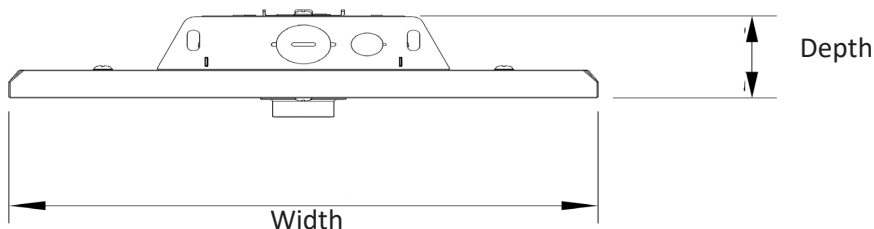
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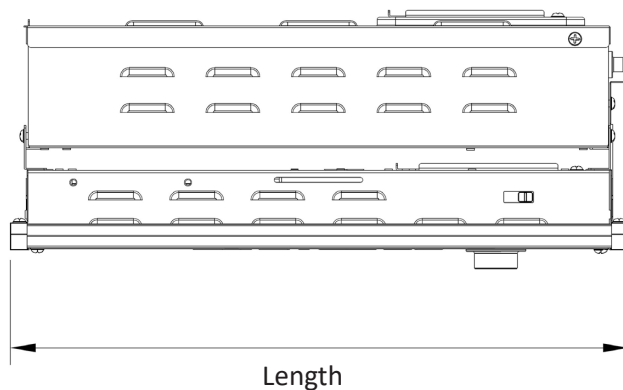
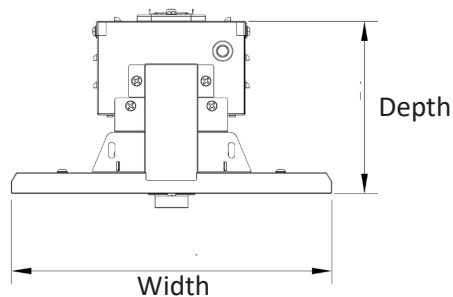
Physical Information

Nominal Lumen Code	Length	Width	Depth	Depth (Including Battery Back Up)	Weight ⁷
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.

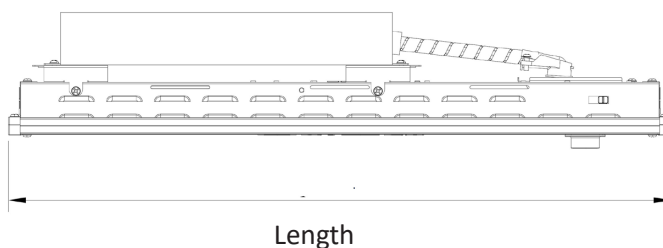
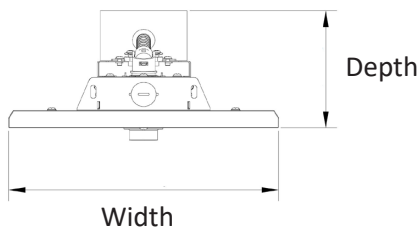
Standard Dimensions



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



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



Additional Specification Information

⁷ Weight will vary based on option selection



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Controls

Standalone Sensors – Keilton Basic [EFS06R + RM51]

Simple, standalone commercial lighting controls including switches, fixture-integrated sensors, and infrared remotes that provide lighting control without networking or radios.

- [EFS07-AUX-HB40](#) – The EFS07 Series high bay PIR sensor combines occupancy sensing with a photocell. Different modes can be selected for various applications using the RM51 IR remote controller.
- [EFS06R](#) – The EFS06R is an external mount Photocell and Microwave sensor. Different modes can be selected for various applications using the RM51 IR remote controller.
- [RM51](#) – The RM51 Remote is used to program the configurations of the Keilton Basic sensors using infrared (IR) communications with the devices. It offers 6 default modes of configurations plus manual settings. Customer configurations can be created, saved and then sent to each device ensuring a rapid deployment.

Bluetooth Mesh Sensors – Keilton+Autani

DLC-listed gateway-free local room-based Bluetooth® mesh commercial lighting control software and hardware products that include mobile apps, sensors, controllers, switches and other devices for commercial lighting.

- [EFS106-AUX-HB40](#) – The EFS106 is ideal for Luminaire Level Lighting Control (LLLC/NLC5) applications. Featuring integrated daylight harvesting and PIR motion sensors, the sensors are equipped with the AlgoH2 algorithm to maximize detection for high bay applications up to 40 ft without false triggers.

For more detailed instructions on commissioning, settings, and features please visit [Keilton App Instructions](#)



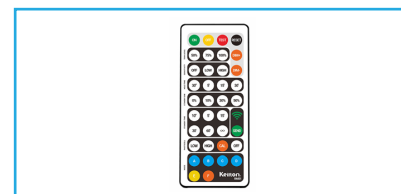
Accessories (Field Installed)



Keilton Basic Sensor
[EFS06R]



Keilton Basic + Autani Sensor
[EFS07-AUX-HB40 or
EFS106-AUX-HB40]



Keilton Basic Handheld Sensor Remote
[RM51]