TRITONPRO® COMPACT LINEAR HIGH BAY, GEN 2

MLHB2

MLHB2118LUNVFD8CSLPGR15W

MLHB2224LUNVFD8CSLPGR15W

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

Intended Use

- The MLHB2 is a compact high bay designed to provide a cost-effective solution for new construction or retrofit projects
- The design and performance of the MLHB2 offer both installation and energy savings for low or high-bay settings in industrial, commercial, and retail applications
- Efficacy up to 171LPW for significant energy savings

Construction

- Narrow lightweight steel body, along with aluminum extrusions, allows for optimal thermal performance in ambient temperatures up to 60°C, as well as ease of handling during installation
- Impact-resistant polycarbonate lenses are offered in wide, medium (reduced glare), and narrow (aisle) distributions
- End cap design supports quick lens changes to modify beam distributions or replace damaged lenses

Electrical

- L70 up to 197,000 hours at 25°C (see page 6 for lumen maintenance table)
- 120v-277v 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

Controls & Sensor Options

- Fixture comes standard with 3.5mm sensor base for field-installed standalone and Bluetooth Mesh controls

Additional Options

- Factory and field installable battery backup available

Installation

- Designed to be mounted by surface brackets, suspended cables, or pendent mount
- Engineered and qualified for use in ambient temperatures up to 60°C when suspended 18" below the ceiling or for use in ambient temperatures up to 55°C when surface mounted. Reference operating temperature table on page 7 for specific information.

Fixture Certifications & Listings

- UL/cUL Listed
- UL Damp Listed
- FCC Compliant
- DesignLights Consortium™ premium qualified luminaire
- Not all MLHB2 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
MLHB2112LUNVFD8CSLPGR15W	S-JX0GP7	Premium	-	-	-
MLHB2118LUNVFD8CSLPGR15W	S-13L4SF	Premium	MLHB2118LHMVFD8CSLPGR15W	S-1MP074	Premium
MLHB2224LUNVFD8CSLPGR15W	S-DQGNPX	Premium	MLHB2224LHMVFD8CSLPGR15W	S-6DVDC1	Premium
MLHB2230LUNVFD8CSLPGR15W	S-SN96CJ	Premium	MLHB2230LHMVFD8CSLPGR15W	S-9CWMV1	Premium
MLHB2336LUNVFD8CSLPGR15W	S-HNZ5PQ	Premium	MLHB2336LHMVFD8CSLPGR15W	S-KDD72S	Premium
MLHB2460LUNVFD8CSLPGR15W	S-XVLQTX	Premium	MLHB2460LHMVFD8CSLPGR15W	S-712J0S	Premium

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

MLHB2224LUNVFD8CSLPGR15W

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

Series	Fixture Size	Nominal Lumen Code [2, 4]		Voltage	Fixture Type	CRI; Color Temp [5]
MLHB2= TritonPro® Compact Linear High Bay, Gen 2	**1**= 1' [1] **2**= 2' **3**= 3' **4**= 4'	**1'** **12L**= Selectable 9,000/12,000lm [3] **18L**= Selectable 12,000/15,000/18,000lm **2'** **24L**= 24,000lm **30L**= Selectable 24,000/30,000lm	**3'** **36L**= 36,000lm **4'** **60L**= Selectable 48,000lm/60,000lm	**UNV**= 120V-277V **HMV**= 277V-480V	**FD**= Full Dimming	**8CS=** 80CRI; 4000K/5000K
	[1] Pendent or Surface Mount options are not available for 1' fixtures with a Battery Backup (BB)	[2] For actual lumens see performance table [3] 12L is not available for HMV (277-480v) [4] All fixtures are set to maximum lumen output and 5000K at the factory				[5] All fixtures are set to maximum lumen output and 5000K at the factory

Lens Options	Power Connection [6]	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) [7] **WD**= Wide Distribution Lens included, LPGR Lens installed [10] **ND**= Aisle Narrow Distribution Lens included, LPGR Lens installed [10] **BB**= Battery Backup, Factory Installed, 90 mins (refer to lumen table on Page 7) [8, 9]	**(Blank)**= Bulk **SP**= Single Pack
	[6] Other modular wiring available. For more information, reach out to an Orion representative.	[7] See field install accessories table for sensor options. [8] For battery backup construction, refer to the dimensional drawing. [9] For BB lumen and wattage, refer to table in page 7. [10] For WD and ND, LPGR must be selected in Lens Options.	

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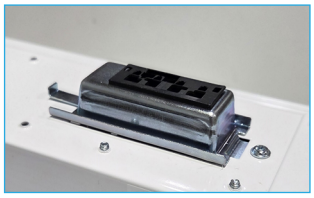
Accessories (Field Installed) View our Install Instructions Here

Battery Backup Options[12,13]	
MLHB-UNV-BBKIT-09L18L	Battery Backup Kit: MLHB, 1', 120v-277v, 9,000 to 18,000lm, provides 25w, 3,625lm. No Cord.
MLHB-UNV-BBKIT-24L36L	Battery Backup Kit: MLHB, 2', 120v-277v, 24,000 to 36,000lm, provides 25w, 3,625lm. No Cord.
MLHB-UNV-BBKIT-48L60L	Battery Backup Kit: MLHB, 4', 120v-277v, 48,000 to 60,000lm, provides 40w, 5,800lm. No Cord.
MLHB-HMV-BBKIT-09L18L	Battery Backup Kit: MLHB, 1', 277v-480v, 9,000 to 18,000lm, provides 30w, 4,350lm. No Cord.
MLHB-HMV-BBKIT-24L36L	Battery Backup Kit: MLHB, 2', 277v-480v, 24,000 to 36,000lm, provides 30w, 4,350lm. No Cord.
MLHB-HMV-BBKIT-48L60L	Battery Backup Kit: MLHB, 4', 277v-480v, 48,000 to 60,000lm, 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[11]	

Field Replaceable Lens

Platform Connector



Lumen and CCT Adjustable Switch

Sensor Ready Base

Additional Specification Information

[11] Special order. Contact your Orion representative for lead times

[12] For Battery backup construction, refer to the dimensional drawing. Pendent or Surface Mount options are not available for 1' fixtures with a battery backup (BB)

[13] If a cord is needed, order MLHB-EM-15C-KIT

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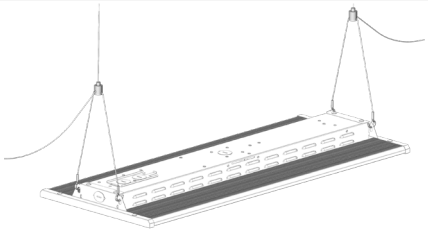
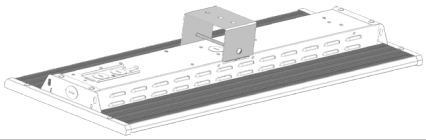
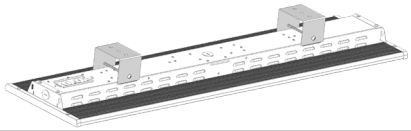
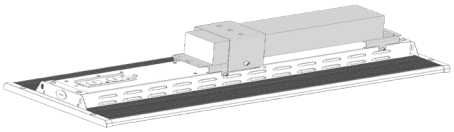
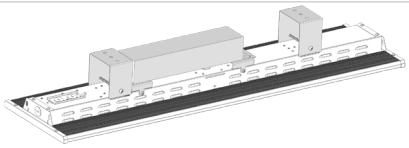
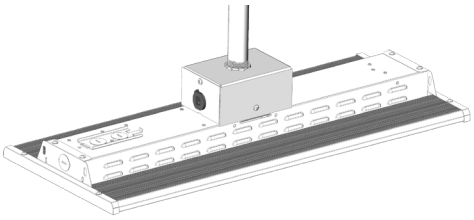
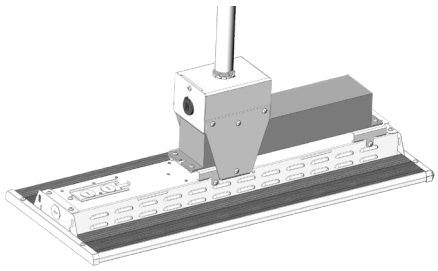
Accessories (Field Installed) View our Install Instructions Here

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	
MLHB-BB-SFM02-KIT	Surface Mount Kit: MLHB, 2', Battery Backup Rigged Surface Mount Kit	
MLHB-BB-SFM03-KIT[5]	Surface Mount Kit, MLHB, 3'-4', Battery Backup Rigid Surface Mount Kit	
Pendent Mounting Options		
MLHB-PMRO2-KIT	Rigid Pendent Mount Kit: MLHB Rigid Pendent Mount Kit, 3/4" Pipe	
MLHB-BB-PMR02-KIT[14]	Battery Backup Rigid Pendent Mount Kit: MLHB Rigid Pendent Mount Kit, 3/4" Pipe (only 2 ft., 3 ft., and 4 ft. fixture lengths)	

Additional Specification Information

[14] For battery backup construction, refer to the dimensional drawing. Pendent or Surface Mount options are not available for 1' fixtures with a battery backup (BB)

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Performance Information, 277v, 5000K, ≥80 CRI[15]

Nominal Lumens	LPGR (General Medium)			LPWD (Wide)			LPND (Narrow)		
	Wattage	Lumens	LPW	Wattage	Lumens	LPW	Wattage	Lumens	LPW
1'									
9,000	58w	9,315lm	160	58w	9,418lm	161	58w	9,196lm	158
12,000	75w	12,517lm	166	75w	12,580lm	167	75w	12,366lm	164
15,000	94w	15,611lm	167	94w	15,887lm	170	94w	15,432lm	165
18,000	112w	18,385lm	165	112w	18,590lm	167	112w	18,222lm	163
2'									
24,000	150w	24,884lm	165	150w	25,279lm	168	150w	24,633lm	164
30,000	184w	30,919lm	168	184w	31,376lm	171	184w	30,774lm	167
3'									
36,000	219w	36,991lm	169	219w	37,243lm	170	219w	36,588lm	167
4'									
48,000	301w	50,809lm	169	301w	51,154lm	170	301w	50,325lm	167
60,000	366w	61,609lm	168	366w	62,185lm	170	366w	61,126lm	167

4000K - Lumens Scaling Factor	0.973

Ambient Operating Temperatures

Nominal Lumens	Voltage	Surface Mount	Suspended/Pendent Mount (min. 18" from ceiling)
9,000/12,000	UNV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
12,000/15,000/18,000	UNV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
	HMV	-40°C to 50°C (-40°F to 122°F)	-40°C to 55°C (-40°F to 131°F)
24,000	UNV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
	HMV	-40°C to 50°C (-40°F to 122°F)	-40°C to 55°C (-40°F to 131°F)
24,000/30,000	UNV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
	HMV	-40°C to 50°C (-40°F to 122°F)	-40°C to 55°C (-40°F to 131°F)
36,000	UNV	-40°C to 50°C (-40°F to 122°F)	-40°C to 55°C (-40°F to 131°F)
	HMV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
48,000/60,000	UNV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)
	HMV	-40°C to 55°C (-40°F to 131°F)	-40°C to 60°C (-40°F to 140°F)

Ambient with Battery Backup

Mounting	With Battery Backup
Suspended/Pendent (18" from ceiling)	0°C to 50°C (32°F to 122°F)
Surface	0°C to 50°C (32°F to 122°F)

Ambient 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	

Additional Specification Information

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

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Battery Backup - Lumen Output in Emergency Mode

Nominal Lumen Code	Voltage	Wattage	Lumen Output
9,000 to 36,000	UNV	25w	3,625lm
48,000 / 60,000	UNV	40w	5,800lm
9,000 to 36,000	HMV	30w	4,350lm
48,000 / 60,000	HMV	40w	5,800lm

Lumen Maintenance[16]

Fixture Size	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
			L70	L80	L90
1'	9,000/12,000	25˚C	172,500	108,500	52,000
		50˚C	172,500	108,500	52,000
		55˚C	168,000	106,000	51,000
		60˚C	159,000	101,000	48,000
1'	12,000/15,000/18,000	25˚C	197,000	123,000	58,000
		50˚C	193,000	120,000	56,000
		55˚C	192,000	119,000	56,000
		60˚C	133,000	84,000	40,000
2'	24,000	25˚C	197,000	123,000	58,000
		50˚C	195,000	121,000	57,000
		55˚C	194,000	120,000	56,000
		60˚C	193,000	120,000	56,000
2'	24,000/30,000	25˚C	197,000	123,000	58,000
		50˚C	193,000	120,000	56,000
		55˚C	192,000	121,000	56,000
		60˚C	144,000	90,000	43,000
3'	36,000	25˚C	197,000	123,000	58,000
		50˚C	195,000	121,000	57,000
		55˚C	194,000	120,000	56,000
		60˚C	194,000	120,000	56,000
4'	48,000/60,000	25˚C	197,000	123,000	58,000
		50˚C	192,000	120,000	56,000
		55˚C	152,000	95,000	45,000
		60˚C	102,000	65,000	31,000

Additional Specification Information

[16] 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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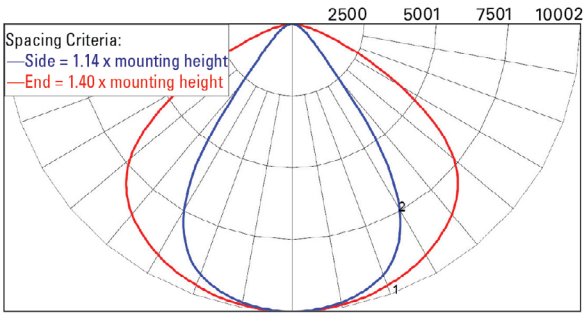
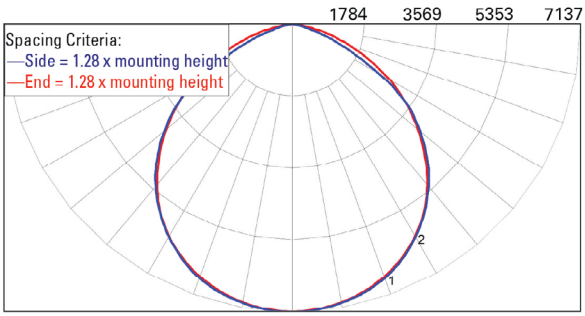
Photometrics

Visit orionlighting.com to obtain all .IES files

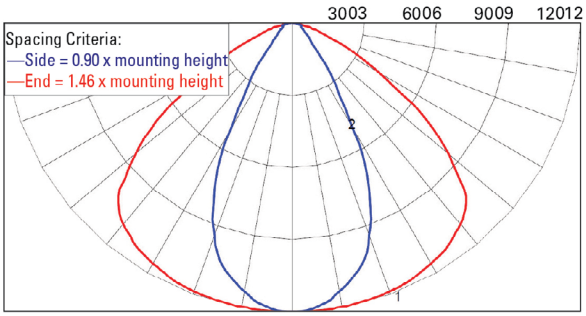
18L 5000K LPGR



18L 5000K LPWD



18L 5000K LPND



Packaging Information

Representative Pallet for 14.25” Configuration

Representative Box for 14.25” Configuration

Nominal Lumen Code	Fixture Length	Standard Fixture[17] Qty per Pallet
12L 18L	14.25”	200
24L 30L	22.91”	160
36L	35.40”	80
60L	44.02”	80

[17] Standard fixture includes a 15' cord and sensor base. These numbers are based on a standard fixture without battery backup.

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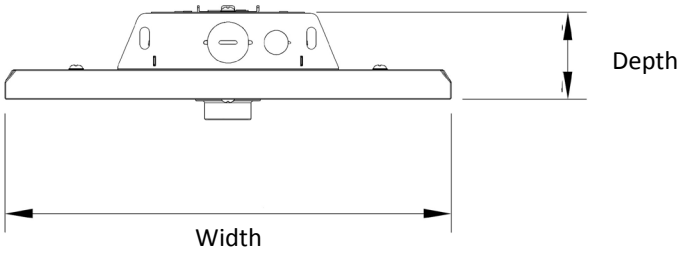
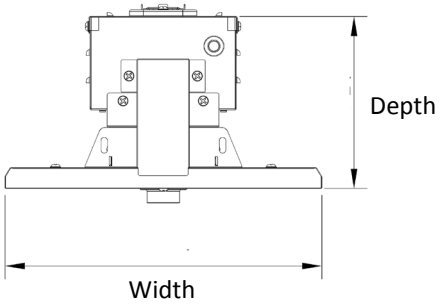
Physical Information

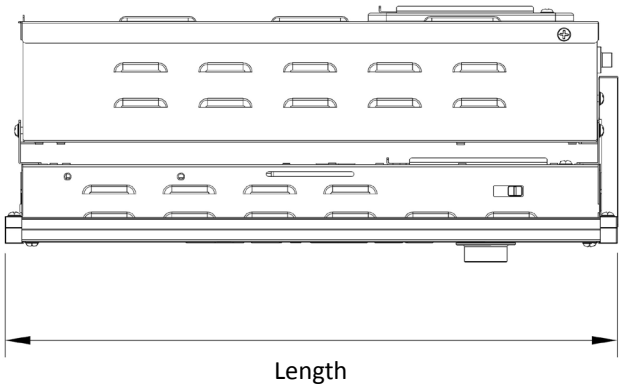
Nominal Lumen Code	Length	Width	Depth	Depth (Including Battery Backup)	Weight[18]
12L/18L	14.25"	9.52"	1.85"	5.75"	4.50lbs.
24L/30L	22.91"	9.52"	1.85"	4.63"	6.00lbs.
36L	35.40"	9.52"	1.85"	4.63"	8.50lbs.
60L	44.02"	9.52"	1.85"	4.63"	10.00lbs.

Standard Dimensions

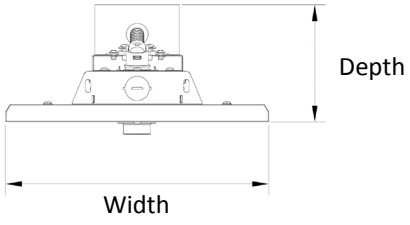


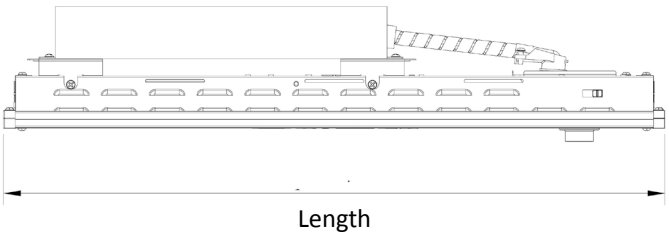
1' Battery Backup Dimensions (12L/18L)





2'/3'/4' Battery Backup Dimensions (24L/30L/36L/60L)





Additional Specification Information

[18] 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+autani App Guide

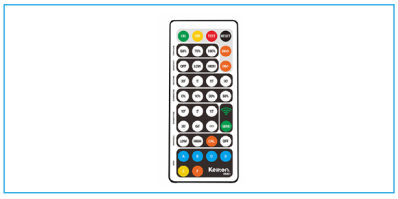
Keilton iOS

Keilton Android @GooglePlay

Accessories (Field Installed)

Keilton Basic Sensor (EFS06R)

Keilton Basic + Autani Sensor (EFS07-AUX-HB40 or EFS106-AUX-HB40)



Keilton Basic Handheld Sensor Remote (RM51)

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