

## MPHL2

### Applications

The HARRIS MPHL2 multipurpose linear fixture is ideal for low bay, assembly line, strip, surface mount, continuous run or task options in warehouse, commercial, and retail environments where linear lighting is needed.

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



MPHL2403LUNVFD850LAFGHWS



### Construction & Design

- Innovative design and order logic allows for a continuous run. Wire harness option provides left, right and center electrical connection for continuous run fixtures and provides "quick connect system" between fixtures for labor savings and ease of installation
- Acrylic frosted contour lens available that provides even light distribution
- White aluminum body with steel end caps
- Fixture can be surface mounted or suspended mounted
- Plastic end caps available

### Additional Options

- Field installed or factory installed Battery Back Up available in 10w, Certified in CA Title 20
- Field installed wireguard kit available
- Single or bulk packaging available to suit job installation needs

### Electrical

- Available in 120v-277v and 347v
- Full Dimming [0-10v] drivers
- 20kV/10kA surge protection available
- Power Factor >0.9\*
- Total Harmonic Distortion < 20%\*

\*Note: Varies based on option

### Control and Sensor Options

- Factory installed control and sensor options
- Control and sensor options are available to be installed in the field
- Manual Programming Sensor
- Remote Programming Sensor
- Remote Programming Sensor with Zoning
- On Site Network Programming
- Internet/Cloud Based Network Programming

### Lumen Maintenance

See Lumen Maintenance table on page 2

### Fixture Certification & Listings

- UL/cUL Listed
- UL/cUL Listed for Damp Locations
- Buy American Act Compliant
- No lens option is not DLC QPL listed
- DesignLights Consortium™ Standard qualified luminaire
- Visit the [DLC QPL](#) for listed models

### Warranty

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

### Performance Information, 120v, 4000K, $\geq 80$ CRI<sup>1</sup>

Nominal Lumen Code	Wattage	LAFG		No Lens		Input Current
		Actual Lumens	LPW	Actual Lumens	LPW	
4'						
02L	14w	1,878lm	136	2,171lm	157	0.12A
03L	21w	3,028lm	145	3,500lm	168	0.18A
04L	26w	3,641lm	142	4,208lm	164	0.21A
06L	38w	5,363lm	141	6,198lm	163	0.32A
8'						
04L	26w	4,053lm	155	n/a 8' is not available in No Lens Option		0.22A
06L	38w	5,738lm	151			0.32A
09L	59w	8,553lm	145			0.50A
12L	77w	11,351lm	148			0.65A

### Lumen Maintenance with No Lens<sup>2</sup>

Fixture Size	Nominal Lumen Code	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
				L70	L80	L90
4'	02L	2,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
4'	03L	3,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
4'	04L	4,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
4'	06L	6,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
8'	04L	4,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
8'	06L	6,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
8'	09L	9,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000
8'	12L	12,000	25°C	238,000	149,000	71,000
			55°C	238,000	149,000	71,000

### Additional Specification Information

<sup>1</sup> Actual performance may vary by up to  $\pm 10\%$  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

### Physical Information

Fixture Size	Length	Width	Depth with Frosted Lens	Depth with No Lens	Weight <sup>3</sup>
4'	46.00"	2.70"	3.75"	2.13"	6.60lbs.
8'	92.00"	2.70"	3.75"	n/a	13.20lbs.

### Ambient Operating Temperatures

Nominal Lumen Code	UNV	347v	With Battery Back Up
02L/03L/04L/06L/12L	-20°C - 55°C [-4°F - 131°F]	-20°C - 50°C [-4°F - 122°F]	Min. Operating Temp. 0°C [32°F]
09L	-20°C - 50°C [-4°F - 122°F]	-20°C - 45°C [-4°F - 113°F]	

Sensor Type	Operating Range
ENx	0°C - 50°C [32°F - 122°F]
P3	0°C - 55°C [32°F - 131°F]
VL	0°C - 55°C [32°F - 131°F]
VBM	0°C - 55°C [32°F - 131°F]

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

**MPHL2403LUNVFD850LAFGHWS**

### Ordering Information (Enter Selected Catalog Number Below)

Series	Fixture Size	Nominal Lumen Code <sup>4</sup>	Voltage	Driver Type	CRI; Color Temp	Lens Options	Power Connection	Fixture Options	Factory Installed Control Options	Continuous Run Option	Packaging Options
<b>MPHL2=</b> HARRIS LED Multipurpose Linear, Gen 2	<b>4=</b> 4' <b>8=</b> 8'*	<b>4'</b> <b>02L=</b> 2,000lm <b>03L=</b> 3,000lm <b>04L=</b> 4,000lm <b>06L=</b> 6,000lm  <b>8'</b>  <b>04L=</b> 4,000lm <b>06L=</b> 6,000lm <b>09L=</b> 9,000lm <b>12L=</b> 12,000lm	<b>UNV=</b> 120v-277v <b>347=</b> 347v*  <b>*Note:</b> <b>8 04L</b> in 347v is not DLC listed	<b>FD=</b> Full Dimming 0-10v	<b>835=</b> 80CRI; 3500K <b>840=</b> 80CRI; 4000K <b>850=</b> 80CRI; 5000K	<b>(blank)=</b> No Lens <sup>8</sup> <b>LAFG=</b> Lens, Acrylic Frosted General 120°  <b>* 8' is only available with Lens (LAFG)</b>	<b>[See Page 4 for part numbers and descriptions]</b>	<b>(Blank)=</b> No Option <b>BB10=</b> Battery Back Up, 10w <sup>5,6</sup> <b>TS=</b> 20kv/10kA Surge Protection <b>PC=</b> Plastic End Caps <sup>9</sup>  <b>Note:</b> Wireguard Available [See Field Accessories Table]	<b>[See Page 4 for part numbers and descriptions]</b>	<b>(Blank)=</b> No Option <b>WIHA=</b> Includes Connector Raceway Bracket, Power Only Wire Harness and End Caps <sup>7,8</sup>	<b>(Blank)=</b> Bulk Pack <b>SP=</b> Single Pack

### Additional Specification Information

<sup>3</sup> Weight will vary based on option selection

<sup>4</sup> For actual lumens, see performance table

<sup>5</sup> Multiply 10 watts by the lumens per watt (LPW) of the fixture to calculate lumen output in emergency mode

<sup>6</sup> Not compatible with 347v [347] option

<sup>7</sup> In continuous run applications, battery back up needs separate customer-provided electrical connection that is not provided in the wire harness [WIHA] option

<sup>8</sup> Can not be ordered with sensor options

<sup>9</sup> Wireguard (LED-MPHL-WG01-KIT and LED-MPHL-WG01-KIT-SP) and no lens option (blank) cannot be ordered with integrated controls or plastic end caps [PC]

### Power Connection Ordering Information

#### Power Connection Options

**HW**= Hardwire [includes dimming leads]

**Or build a cord below:**

Whip Length	Whip Color	Whip Type	Plug Option* (Plug Only Available for Non-Dimming Cords)	Plug Amperage* (Select Amperage only if plug is selected)	Voltage (Select Voltage only if plug is selected)	Whip Location
<b>06</b> = 6' whip	<b>W</b> = White	<b>[Blank]</b> = Non-dimming 3 leads [18/3]	<b>[Blank]</b> = No plug	<b>15</b> = 15 amps	<b>1</b> = 120v	<b>[Blank]</b> = Mounted from back of fixture
<b>11</b> = 11' whip	<b>B</b> = Black	<b>D</b> = Dimming 5 leads [18/5]	<b>TL</b> = TwistLock plug	<b>20</b> = 20 amps	<b>2</b> = 277v	<b>E</b> = Mounted from end of fixture
		<b>EM</b> = Emergency 4 leads [18/4]**	<b>SB</b> = Straight blade plug		<b>3</b> = 347v	

\*If a sensor will be specified, please specify a power connection without dimming leads

\*\*If a plug is required for an emergency whip type [EM], please contact the factory.

### Sensor and Controls Ordering Information

#### Factory Installed Control Options<sup>6</sup>

**[Blank]**=  
No Option

**VL**=  
Keilton: PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, 0-10V Dimming, IR Remote Programmable<sup>9,10</sup>

**VBM**=  
Keilton Bluetooth Mesh Network: Wireless Fixture Controller, PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10v Dimming, Daylight Harvesting, High End Trim, Luminare Level Lighting Control, Wireless Zones, Time-of-Day Scheduling, Keilton Mobile App Programmable<sup>8,10</sup>

**P3**=  
Philips EasySense SNS210: PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, Luminare Level Lighting Control, Wireless Zones, SR Dimming, ZigBee, Apple iOS and Android Bluetooth App Programmable<sup>7,8</sup>

**EN2**=  
Enlighted Connected Lighting Sensor: Network Lighting Control Component, PIR Occupancy Sensor, Daylight Harvesting, High End Trim, Dimming Modes, Luminare Level Lighting Control, Wireless Zones, Modified IEEE 802.15.4.1, BLE Radio, Temperature Sensor, Scene Control, Demand Response, Data Collection, BMS Integration, Cloud Access<sup>7,8</sup>

**EN3**=  
Enlighted IoT: All Features of EN2 - Network Lighting Control PLUS access to Apps: Space Management, Asset Tracking, and Contact Tracing Apps<sup>7,8</sup>

### Additional Specification Information

<sup>6</sup>Visit our [Lighting Controls](#) page for more information

<sup>7</sup>Not compatible with 347v [347] option

<sup>8</sup>Wireguard [LED-MPHL-WG01-KIT and LED-MPHL-WG01-KIT-SP] and no lens option [blank] cannot be ordered with integrated controls **ENx**, **P3**, **VL**, or **VBM**

<sup>9</sup>Requires remote for commissioning and/or modifying settings. See accessories table

<sup>10</sup>Not compatible with **02L** in 347v

### Fixture Options (Factory Installed)



**Battery Back Up  
(BB10)**



**Plastic End Caps  
(PC)**



**Lens Option  
(LAFG)**



**Sensor Option  
(ENx)**



**Sensor Option  
(P3)**



**Sensor Option  
(VL)**



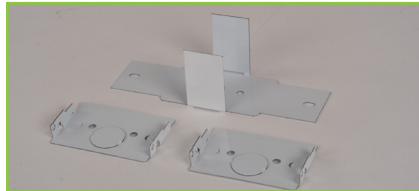
**Sensor Option  
(VBM)**



**Whip Exiting Back of Fixture-Black  
(06B)**



**Whip Exiting End of Fixture-Black  
(06BE)**



**Continuous Run Option: [WIHA]  
(Includes Connector Raceway Bracket, Wire Harness  
(Installed in factory-not shown), End Caps)**

### Accessories [Field Installed]

Sensor Configuration Tool [Ordered Separately]			
<a href="#">RM51</a>	Vealite Keilton Sensor IR Remote Controller		
<a href="#">FSIR-100</a>	Hand-Held Sensor Configuration Tool Required for Adjusting Default Factory Settings, Including Hi/Low/Off Modes and Sensitivity/Time Delay/Cut Off [For Use with FSP-221B]		
Keilton Ecosystem Accessories			
All accessories can be commissioned and controlled via the Keilton app as they are part of the same ecosystem as the VBM Keilton sensors. For more information on the Keilton Ecosystem, please visit this <a href="#">link</a> .			
WP1013	3-Key Battery Powered Bluetooth Wireless Wall Switch. Order additional <b>WP</b> accessory if mounting to wall.		
WP1025	5-Key Battery Powered Bluetooth Wireless Wall Switch. Order additional <b>WP</b> accessory if mounting to wall.		
WP1013S	3-Key AC Powered Bluetooth Wireless Wall Switch		
WP1017S	7-Key AC Powered Bluetooth Wireless Wall Switch		
WP	Wall Plate for use with wall switches <b>WP1013</b> and <b>WP1025</b>		
WP1015S	5-Key Solar Powered Bluetooth Wireless Wall Switch		
WF20R	20A Bluetooth Plug Load Controller		
CR01-ETC	Real Time Clock USB Dongle [Keeps Keilton devices schedules in sync in case of power loss - 1 per zone]		
Non-Dimming Sensor Option			
<a href="#">OSFLA-ITW</a>	Leviton PIR Occupancy Sensor, ON/OFF, Manual Programmable, 20' & 40' lenses		
Dimming Sensor Options			
To order Dimming sensor, select one option from each column below and combine part numbers [Example: FSP-221B-D-L2-W]			
Pole or Box Mount Sensor Voltage	Nipple Configuration	Lens Option	Color
<a href="#">FSP-221B</a> , Wattstopper PIR Occupancy Sensor, Photosensor, High and Low End Trim, 0-10V Dimming, IR Remote Programmable <sup>9</sup>	-D= Drop Nipple	-L2= 360° Lens, Max Coverage 48’ Diameter from 8’ Height	-W= White
		-L3= 360° Lens, Max Coverage 40’ Diameter from 20’ Height	
		-L7= 360° Lens, Max Coverage 100’ Diameter from 40’ Height	
Suspended Mounting Option			
HW-FC009	Hanging Cable Set: Adjustable 120”, Loop, Narrow Fixture Y-Fit with [2] Toggles		
Wireguard Option <sup>8, 11</sup>			
LED-MPHL-WG01-KIT	4' Fixture Wireguard, Bulk Pack		
LED-MPHL-WG01-KIT-SP	4' Fixture Wireguard, Single Pack		
Tandem Kit Options			
MPXL-TANDEM-001-HDWR-KIT	HARDWARE KIT: For <b>Lensed</b> MPHL Tandem Fixtures, Kit Includes: [1] Tandem Plate, [1] Modified Tall End Cap, and Screws		
MPXL-TANDEM-002-HDWR-KIT	HARDWARE KIT: For <b>No Lens</b> MPHL Tandem Fixtures, Kit Includes: [1] Tandem Plate, and Screws [4' fixtures only]		

### Additional Specification Information

<sup>8</sup> Wireguard (**LED-MPHL-WG01-KIT** and **LED-MPHL-WG01-KIT-SP**) and no lens option (**blank**) cannot be ordered with integrated controls **ENx**, **P3**, **VL**, or **VBM**

<sup>9</sup> Requires remote for commissioning and/or modifying settings. See accessories table

<sup>11</sup> All wireguards are shipped in 4' increments. For 8' fixtures, two 4' wireguards are required

## MPHL2

### Accessories [Field Installed]



**Wireguard**  
(LED-MPHL-WG01-KIT-SP)



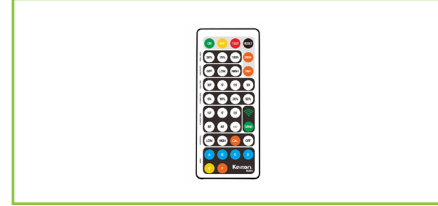
**ON/OFF Sensor**  
(OSFLA-ITW)



**Sensor Configuration Tool**  
(FSIR-100)



**Dimming Sensor**  
(FSP-221B-D-Lx-W)



**Sensor Configuration Tool**  
(RM51)



**Keilton Ecosystem Accessories**

### Photometrics

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

4' 04L 850 LAFG

