Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

Advantage Series (AHB)

Gen 2 - Linear High Bay



2 ft.





4 ft.

OVERVIEW	
Lumen Package (lm)	18,000 - 60,000
CCT	4000K, 5000K
Wattage Range (W)	130 - 440
Efficacy Range (LPW)	125 - 140
Weight lbs (kg)	7.2 - 9 (3.3 - 4.1)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- High quality steel construction with paint-after-fabrication finish
- Wide distribution lens is acrylic and narrow distribution is polycarbonate.

Optical System

- Minimum CRI of 80
- Available in 4000K and 5000K
- Standard distribution is 90 degree beam angle wide
- Optional narrow aisle distribution is available
- Frosted lens design for maximum light output

Electrical

- 0-10V dimming (10%-100%) standard
- Available in UNV (120V-227V) or UNC (120V-347V) voltages
- L70 Calculated Life: >60K hours
- Operating Temperature -40 to +50C (-40F to +122F). Refer to the ambient temperature table for specific operating temperatures.

Controls

- Simple Sensor
  - Quick Control PIR 3.5mm plug-in sensor up to 40ft available. Ships separately and can be added in the field after install.
  - OMS external PIR end-mount sensor up to 40ft.
- Basic Bluetooth
  - External and PIR Bluetooth motion/ photocell sensor (OMSBTxL,IMSBTxL)
  - Switches luminaire light levels based on motion and daylight (see the controls section for more details)
  - Fixtures operate independently and can be commissioned via iOS or Android configuration app
- Airlink Blue
  - App based, wireless Bluetooth mesh lighting control system
  - Automated control of grouped fixtures based on motion sensors, daylight or a fully customizable schedule.

Installation

- Standard 3' chain mount and V hooks included
- Optional single pendant mount box (3/4" stem not included)

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.

Listings

- Listed to UL 1598 and UL 8750
- Unit is rated for damp locations.
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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Advantage Series (AHB)

Type : _____

Have questions? Call us at (800) 436-7800

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: AHB 2 18L W UNC 840 EM QCR35

Prefix	Size	Lumen Package	Lens/Distribution	Voltage	Color Temperature/Rendering	EM Options
AHB - Advantage Series High Bay	**2** - 2ft **4** - 4ft	**18L** - 18,000 Lumens[4] **24L** - 24,000 Lumens[4] **30L** - 30,000 Lumens[4] **36L** - 36,000 Lumens[4] **48L** - 48,000 Lumens[5] **60L** - 60,000 Lumens[5]	**W** - Wide **N** - Narrow	**UNC** - (120V-347V)	**840** - 4000K 80CRI **850** - 5000K 80CRI	**EM** - 16W Emergency Battery[2]

Controls

QCR35 (Standard) - Quick Control Receptacle 3.5mm (see Accessories for QCMS35 motion sensor)[7]

ALBCS3 - AirLink Blue Wireless Motion & Photo Sensor Controller (40'-50' mounting height, unobstructed 200' max recommended distance)

IMSBT1L - Integral Bluetooth PIR Motion & Photo Sensor up to 24'

IMSBT2L - Integral Bluetooth PIR Motion and Photo Sensor 25' to 40'

OMS1 - External PIR Sensor up to 24'

OMS2 - External PIR Sensor up to 40'

For programming, please see "Sensors Sequence of Operations Charts"

Options

End Mount

E6CN - 6ft cord 16/3 non-dimming; no plug
E6CD - 6ft cord 16/5 dimming; no plug
E10CN - 10ft cord 16/3 non-dimming; no plug
E10CD - 10ft cord 16/5 dimming; no plug

Center Mount

C6CN - 6ft cord 16/3 non-dimming; no plug
C6CD - 6ft cord 16/5 dimming; no plug
C10CN - 10ft cord 16/3 non-dimming; no plug
C10CD - 10ft cord 16/5 dimming; no plug

Direct can only be **End** mounted cord

Pendent or Suspended can be **End** or **Center** mounted cord

515 - 5-15 plug (3 prong 120V)
L515P - 5-15P Twistlock Plug (125V)
L615P - 6-15P Twistlock Plug (250V)
L715P - 7-15P Twistlock Plug (277V)
L2420 - 8-15 Twistlock Plug (347V)

To add a plug to a cord, include the catalog string for the plug after the cord.

Plugs can only be used on non-dimming cords

Need more information?
Click here for our glossary

Have additional questions?
Call us at (800) 436-7800

ACCESSORY ORDERING INFORMATION

Part Number	Order Number	Description
783379R4	**MCH10**	10' Mini Hook Cable Hanger (2 per) - Up/Down adjustable and Left/Right adjustable
885912	**AHB PMK1**	AHB Single Pendant Mount Kit
885913	**AHB SMK[3]**	AHB Surface Mount Kit
885914	**AHB NRW-12L-18L-24L**	AHB 2 Narrow Lens 12L/18L/24L
885915	**AHB NRW-30L-36L**	AHB 2 Narrow Lens 30L/36L
885916	**AHB NRW-48L**	AHB 4 Narrow Lens 48L
885917	**AHB NRW-60L**	AHB 4 Narrow Lens 60L
757498R2	**AHB-WG-18L-24L**	AHB Wireguard (1pk) 18L/24L - 12" by 24"
757921R2	**AHB WG-30L-36L**	AHB Wireguard (1pk) 30L/36L - 14 1/4" by 24"
819424R2	**AHB WG-48L**	AHB Wireguard (1pk) 48L - 12" by 48"
819425R2	**AHB WG-60L**	AHB Wireguard (1pk) 60L - 14 1/4" by 48"
842373	**QCMS35**	Quick Control PIR Motion Sensor 3.5mm (up to 40')
802874	**QCALBMSD35**	Quick Control Airlink Blue Motion Sensor 3.5mm (up to 40')
792552	**QCREM**	Quick Control Remote Control

1 Footnote not used
2 EM operating temperature - 0 to +40C (+32F to +104F)
3 Not available with EM option
4 Only available as a 2ft unit
5 Only available as a 4ft unit
6 Footnote not used
7 The fixture can only be dimmed by either the QCMS35 sensor or an external switch, not both.

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PERFORMANCE

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Cord Application Notes							
		Not Dimming				Dimming	
		No Emergency or Controls	Emergency	Controls[1]	Emergency and Controls	No Emergency or Controls	Emergency
Switched Circuitry Using a Wall Switch to Dim[2]	Plug	Yes	No	Yes	No	No	No
	# of Cord Wires	3	4	3	4	5	6
Non-Switched Circuitry Using Controls to Dim[3]	Plug	Yes	Yes	Yes	Yes	No	No
	# of Cord Wires	3	3	3	3	5	6

Delivered Lumens							
Lumen Package	Length	Distribution	4000K CCT		5000K CCT		Wattage
			Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
18L	2 FT	WIDE	17521	135	18192	140	130
		NARROW	16764	129	17407	134	
24L	2 FT	WIDE	21678	132	22509	137	164
		NARROW	20742	126	21536	131	
30L	2 FT	WIDE	29079	136	30193	141	214
		NARROW	27996	131	29069	136	
36L	2 FT	WIDE	34911	139	36249	144	251
		NARROW	33611	134	34899	139	
48L	4 FT	WIDE	46105	140	47872	145	330
		NARROW	44741	135	46455	141	
60L	4 FT	WIDE	58809	142	61063	148	413
		NARROW	56773	138	58949	143	

Electrical Data (Amps)*						
Lumen Package	Wattage	120V	208V	240V	277V	347V
18L	130	1.08	0.62	0.54	0.47	0.37
24L	164	1.37	0.79	0.68	0.59	0.47
30L	214	1.79	1.03	0.89	0.77	0.62
36L	251	2.09	1.21	1.05	0.91	0.72
48L	330	2.75	1.59	1.38	1.19	0.95
60L	413	3.44	1.98	1.72	1.49	1.19

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

EM Output Table (Based On Wide Distribution & 5000K)	
Lumen Package	EM Lumen Output
18L	2248
24L	2192
30L	2254
36L	2309
48L	2319
60L	2367

Ambient Temperature		
	W/O EM	W EM
18L	56	48
24L	41	41
30L	43	43
36L	46	44
48L	41	41
60L	47	43

1- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

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PERFORMANCE

AHB 18L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	81%
30 C	100%	95%	90%	85%	81%
40 C	100%	95%	90%	85%	80%
50 C	100%	94%	88%	83%	78%

AHB 24L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	80%
30 C	100%	95%	89%	84%	79%
40 C	100%	94%	88%	82%	77%

AHB 30L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	80%
30 C	100%	95%	89%	84%	79%
40 C	100%	94%	88%	82%	77%

AHB 36L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	81%
30 C	100%	95%	90%	85%	81%
40 C	100%	95%	89%	84%	79%
50 C	100%	94%	88%	82%	77%

AHB 48L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	81%
30 C	100%	95%	89%	84%	80%
40 C	100%	94%	88%	83%	77%

AHB 60L

Recommended Lumen Maintenance[1]					
Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	100%	95%	90%	85%	81%
10 C	100%	95%	90%	85%	81%
20 C	100%	95%	90%	85%	81%
25 C	100%	95%	90%	85%	81%
30 C	100%	95%	90%	85%	80%
40 C	100%	94%	88%	83%	78%

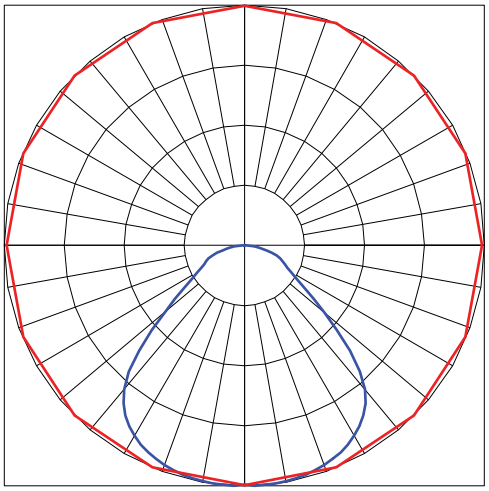
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PHOTOMETRICS CONTINUED

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AHB Wide Polar Plot

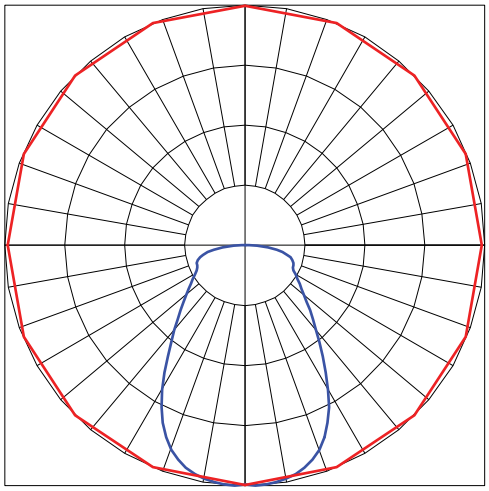
Polar Curve



Vertical Plane Horizontal Cone

AHB Narrow Polar Plot

Polar Curve

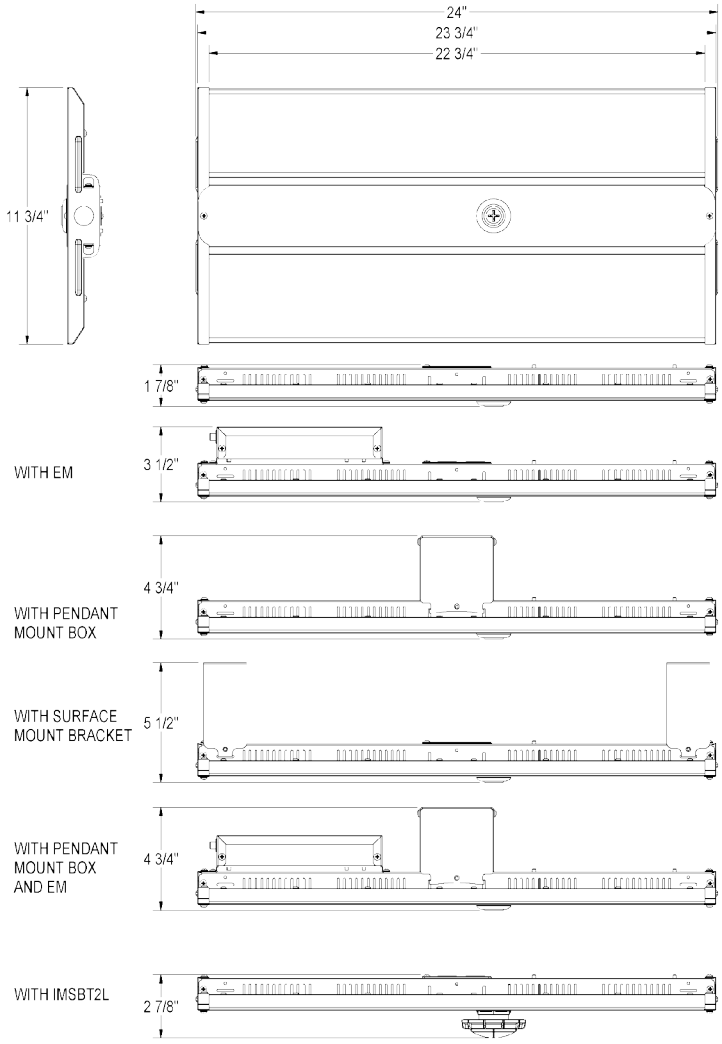


Vertical Plane Horizontal Cone

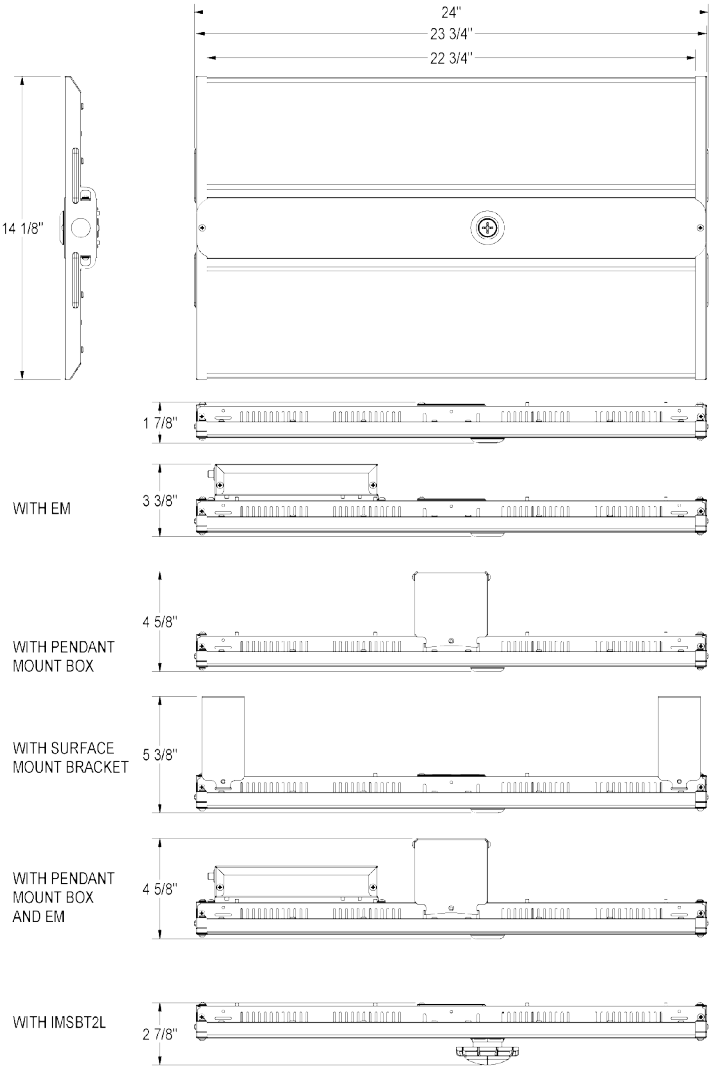
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PRODUCT DIMENSIONS

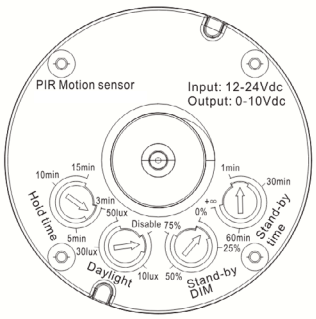
18L - 24L



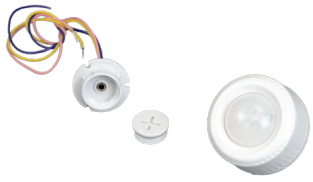
30L



SHIPPING WEIGHTS			
Unit	Qty per Box	LBS per unit	LBS per Box
18L	1	7.3	18.6
24L	1	8.2	20.1
30L	1	9.1	22.1
36L	1	9.1	22.1
48L	1	14.8	14.8
60L	1	15.5	15.5



QCMS35 Accessory - Dial settings



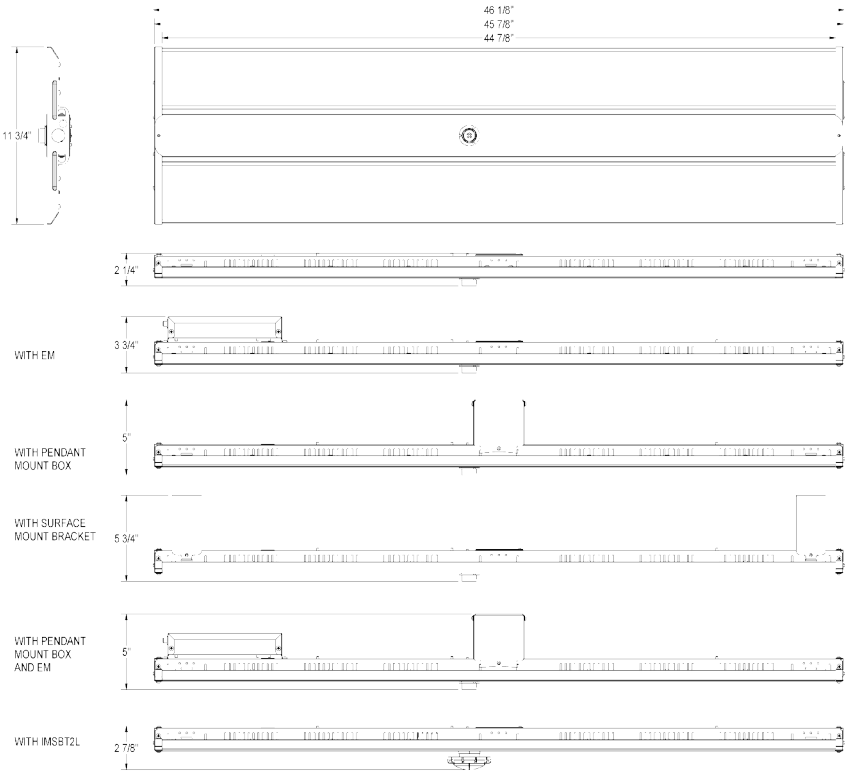
QCR35 receptacle option and QCMS35 sensor accessory

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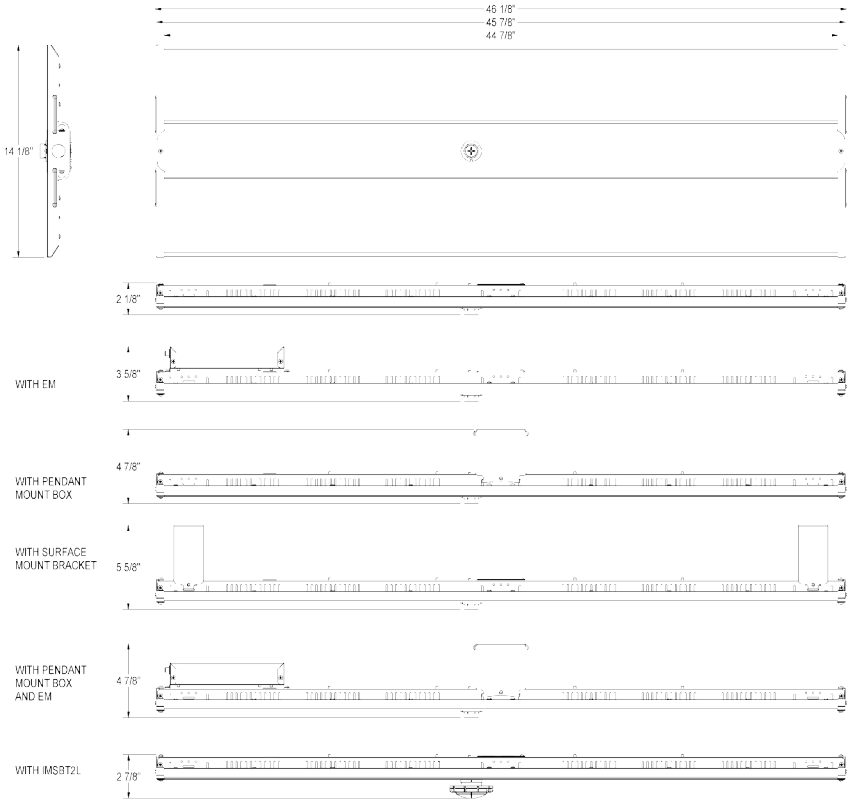
PRODUCT DIMENSIONS

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48L

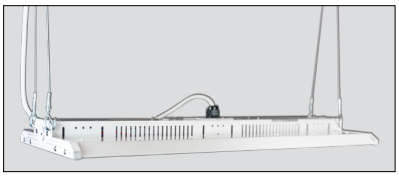


60L





QCMS35 installed on AHB



View of AHB with MCH10 Hardware Kit



Components of the MCH10 Hardware Kit



Standard Chain Mount



Pendant Mount Kit

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CONTROLS

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Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

Click here to learn more details about IMSBT

LEVITON App Apple Android

AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Lighting Control System that incorporates Luminaire Level Lighting Controls (LLLC) and high-end trim to provide energy savings code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App with technology partner Silvair. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

Click here to learn more details about AirLink Blue

AirLink Blue App Apple

AirLink™ Blue
Technology Partner SILVAIR

Sensor Sequence of Operations

Standard Programming	On Event	On Light Event	Dim LIght Level	Delay to Dim	Delay to Off	Sensitivity
OMSBTxL/IMSBTxL	Motion	100%	50%	5 seconds	10 seconds	High
OMS	Motion	N/A	N/A	N/A	30 seconds	Auto

Operation	Description
On Event	Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.
Off Event	Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.
On Light Level	The light level that the fixtures will turn on to when ON EVENT occurs.
Dim Light Level	The light level that the fixtures will dim down to when no motion is detected.
Delay to Dim	The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.
Delay to Off	The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.
Sensitivity	The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view.

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