

## DESCRIPTION

The Trace-Lite MQHB Series mini economy linear highbay offers superior performance and energy-efficiency in a low-profile, compact design. The MQHB is a cost-effective solution offered in both static or CCT and power selectable configurations with outputs up to 60,000 lumens. This series is available with multiple options including general or aisle lens distribution, integral battery backup and line cords. MQHB also offers convenient accessories such as LiteLogic Bluetooth<sup>®</sup> enabled plug and play sensors, 480V step-down transformers and pendant or surface mount kits for maximum project flexibility. It features an IK08 rated optical lens and is supplied with a built-in sensor receptacle. This versatile luminaire comes standard with 10' aircraft mounting cables and can be stem or pendant mounted with optional accessories. The MQHB highbay is ideal for retail, industrial, commercial, manufacturing, warehousing, gymnasium and other large interior spaces with mounting heights up to 50'. DesignLights Consortium<sup>®</sup> (DLC) PREMIUM Qualified for energy rebates.

## SPECIFICATIONS

### Construction:

- Die-formed steel housing in a white finish
- Polycarbonate lens offered in both a standard wide (120°) and optional Aisle lens distribution (40°x110°)
- Mini configuration, as small as 10.2" wide and 16.5" long
- Isolated central driver compartment optimizes thermal dissipation
- Built in receptacle on the front panel for easy plug and play sensor installation
- ½" knockout on both ends as well as in the central panel

### Optics/LEDs:

- Standard wide (120°) and optional Aisle lens distribution (40°x110°)
- Multiple lumen packages from 13,800 to 60,000 lumens
- Available in 4000K or 5000K CCT
- Two configurations are CCT (4000K/5000K) & power switchable (3 levels):
  - 135W (15,000lm, 18,500lm, 20,250lm)
  - 200W (23,250lm, 27,750lm, 30,000lm)
- Switch located and easily accessible outside enclosure (on switchable configurations) maximizes energy savings and utility rebates
- Efficacy up to 150lm/w
- CRI ≥80
- L70 > 100,000hrs
- L90 > 40,000hrs

### Electrical:

- Class 2 power supply, Universal 120-277VAC, 50/60Hz
- Power Factor > 0.90
- 0-10V Dimming driver
- 480V Step-Down Option
- Built-in drive surge protection L-N: 4kV, L/N-GND: 6kV

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
 Accessories: \_\_\_\_\_  
 Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



### Installation:

- 10' Adjustable cable mount kit included for suspension mount
- ½" Knockouts located at both ends of the unit, AUX sensor receptacle built in the central front panel
- Can be surface or stem/pendant with the use of the stem or surface mount kits
- Integral battery backup – factory installed
- 480V Step-Down Transformer option - factory installed.
- Easily set wattage and CCT during installation using the adjustment switches located outside the housing. (on selectable configurations)

### Specs at a Glance

Configuration	MQHB-S-92	MQHB-S-135-CP	MQHB-M-155	MQHB-M-200-CP	MQHB-L-270	MQHB-XL-400
<b>Wattage (W)*</b>	92W	100W-115W-135W Switchable	155W	155W-185W-200W Switchable	270W	400W
<b>Lumens (lm)</b>	13,800 Lumens	15,000-20,250 Lumens	23,250 Lumens	23,250-30,000 Lumens	40,500 Lumens	60,000 Lumens
<b>Efficacy (LPW)</b>	Up to 150 LPW					
<b>Distribution</b>	General 120° or Optional Aisle Lens Distribution (40°x110°)					
<b>CCT (K)</b>	4000K or 5000K	4000K-5000K Switchable	4000K or 5000K	4000K-5000K Switchable	4000K or 5000K	4000K or 5000K
<b>CRI</b>	≥80					
<b>Input Voltage</b>	120-277VAC, 50/60Hz, 0-10V Dimmable, 480VAC Optional					
<b>Operating Temp</b>	-20°C to 50°C (-4°F to 122°F)					
<b>Certifications</b>	UL Listed for Damp Locations, DLC PREMIUM					
<b>Warranty</b>	5 Years					
<b>Weight</b>	5.5 lbs	5.5 lbs	7.9 lbs	7.9 lbs	10.4 lbs	13.0 lbs

\* Nominal Wattage, tested at 5000K CCT. See performance table for details.

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.

#### Options:

- Factory installed battery backup (15W, delivers 2,000 lumens (Option: BB1) and a 24W system delivers 3,500 lumens for over 90 minutes of emergency powered illumination (Option: BB2), mounted to top of unit)
- Factory installed 480V step down transformer (HVS)
- 6' and 15' Line cords (LC\*, 3-conductor) for 120-277VAC applications
- See accessories for plug and play sensors – fixture is provided with a receptacle to accept AUX based sensors

#### Testing & Compliance:

- cULus Listed for Damp Locations
- DesignLights Consortium® (DLC) PREMIUM Qualified (consult QPL for qualified models)
- Meets state of California Title 24 requirements for dimming and control of light fixtures
- Operating temperatures: -20°C to 50°C (-4°F to 122°F) (When fixture is a minimum of 18" from the ceiling)

#### Accessories:

- Plug and Play Occupancy Sensors – receptacle built on the central front panel
  - Dimming occupancy sensor, PIR, with daylight harvesting capabilities, 3.5mm AUX port (TL-MSP12)
  - Litelogic Wireless Bluetooth PIR Sensor with daylight harvesting capabilities, 120/277VAC, 3.5mm AUX port (**LE-MS3-AUX-HB1**)
- Remote for TL-MSP12 occupancy sensor (TL-MSSW-REMOTE)
- Stem or conduit mounts allows for surface or conduit mount installation
- Wireguard kit for field installation
- Multiple line cords (indoor rated) for field installation (LC6, LC15)
- Field-installed In-line 10kVA surge protector for 120/277VAC, 320V, 420J (20300032)
- Field-installed In-line 10kVA surge protector for 480VAC, 1500V, 570J (20300033)

#### Warranty:

- Five Year Warranty (Terms and Conditions Apply)

#### ORDERING INFORMATION (Example: MQHB-S-135-D-VS-CP-BB1)

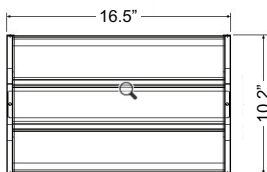
Series	Size/Max Wattage	Distribution	Input Voltage	CCT/Power	Options (Factory Installed)
MQHB	S-92 = Small, 92W	D = General Diffused	VS = 120/277VAC	4K <sup>3</sup> = 4000K	BB1 = Battery Backup, 15W System
	S-135 <sup>1</sup> = Small, 135W	A = Aisle	HVS <sup>2</sup> = 480VAC	5K <sup>3</sup> = 5000K	BB2 = Battery Backup, 24W System
	M-155 = Medium, 155W			CP <sup>4</sup> = CCT & Power Selectable (4000K-5000K)	LC6 <sup>5</sup> = 6' Line Cord, Blunt End (300V)
	M-200 <sup>1</sup> = Medium, 200W				LC15 <sup>5</sup> = 15' Line Cord, Blunt End (300V)
	L-270 = Large, 270W				
	XL-400 = X-Large, 400W				

LiteLogic Accessories <sup>6</sup> (Field installed)	Accessories <sup>6</sup> (Field installed)
<b>LE-MS3-AUX-HB1</b> = Bluetooth Enabled Dimming Occupancy Sensor, PIR	20300032 = Field-installed In-line 10kVA Surge Protector for 120/277VAC, 320V, 420J
<b>LE-SW2</b> = Bluetooth Enabled, 5-Button, Battery Powered Wall Switch	20300033 = Field-installed In-line 10kVA Surge Protector for 480VAC, 1500V, 570J
<b>LE-SW3</b> = Bluetooth Enabled, 3-Button, Line Voltage Wall Switch (Neutral Required)	LC6 <sup>5</sup> = 6' Line Cord, Blunt End (300V)
<b>LE-SW4</b> = Bluetooth Enabled, 7-Button, Line Voltage Wall Switch (Neutral Required)	LC15 <sup>5</sup> = 15' Line Cord, Blunt End (300V)
LE-WP = Wallplate for LE-SW2, White	MC6-6 = Metal Clad 6' (6-Conductor) #18 Leads Whip (For Dimming Applications)
TL-MSP12 = Dimming Occupancy Sensor, PIR	MQHB-SM <sup>7</sup> = Surface Mount Brackets
TL-MSSW-REMOTE = Remote for SC Dimming Sensor	MQHB-PM <sup>7</sup> = Pendant Mount Bracket
	WG-MQHB-S = Wireguard, Small (78W-135W)
	WG-MQHB-M = Wireguard, Medium (155W-200W)
	WG-MQHB-L = Wireguard, Large (270W)
	WG-MQHB-XL = Wireguard, XL (400W)
	MQHB-CTY10 = 10' Cable Mount with Integral Y-toggles (Pack of 2)

#### Notes

- <sup>1</sup> Offered with CCT & Power Selectable features only
- <sup>2</sup> Contact factory for line cords compatible with HVS option
- <sup>3</sup> Option available for 92W, 155W, 270W & 400W configurations only
- <sup>4</sup> Option available for 135W & 200W configurations only
- <sup>5</sup> 120/277VAC only, consult factory for BB option combined with line cord options,
- <sup>6</sup> Order as a separate line item, shipped in a separate box for installation in the field
- <sup>7</sup> Can not be used combined with battery backup or step down transformer options

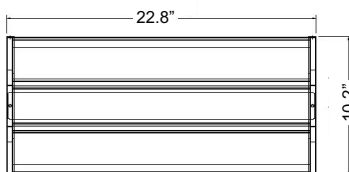
#### MQHB-S (92W & 135W)



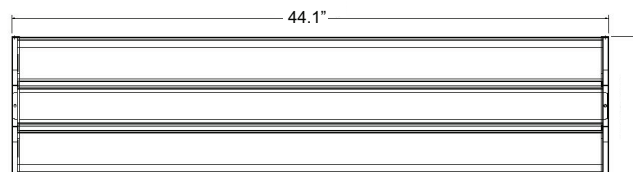
#### MQHB-L (270W)



#### MQHB-M (155W & 200W)

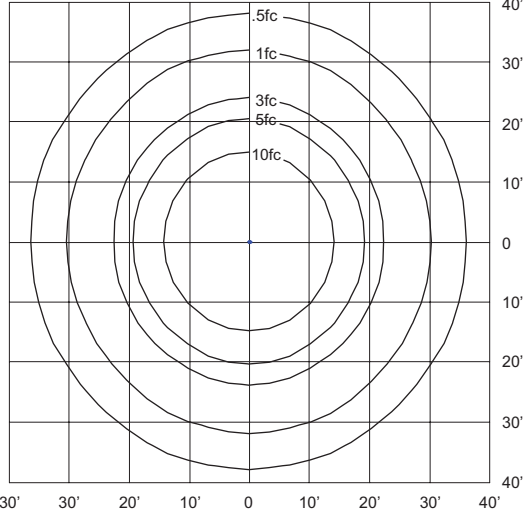


#### MQHB-XL (400W)



SAMPLE PHOTOMETRY

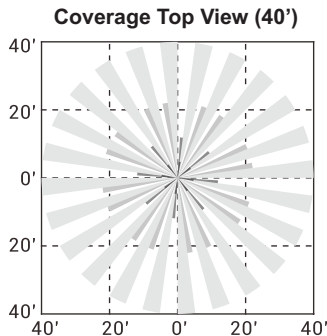
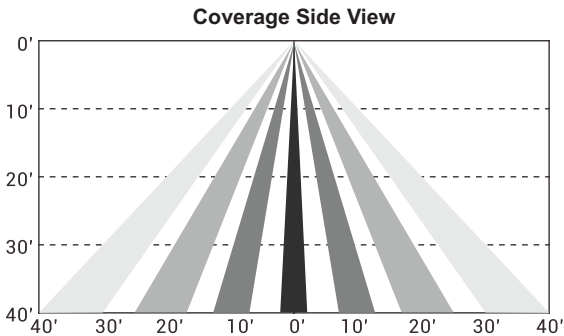
**MQHB-M-155-D-VS-4K**  
IES: TYPE VS Very Short  
MOUNTING HEIGHT: 20'  
TILT: ZERO  
HORIZONTAL SPACING CRITERIA: 1.3



PERFORMANCE DATA

Model	Wattage	CCT	Lumens	LPW	Power Factor	CRI
MQHB-S-92-D-VS-4K	92	4000K	13,800	150	0.9	80
MQHB-S-92-D-VS-5K	92	5000K	13,892	151	0.9	80
MQHB-S-135-D-VS-CP (100W, 4K)	100	4000K	15,000	150	0.9	80
MQHB-S-135-D-VS-CP (100W, 5K)	100	5000K	15,300	153	0.9	80
MQHB-S-135-D-VS-CP (115W, 4K)	115	4000K	17,250	150	0.9	80
MQHB-S-135-D-VS-CP (115W, 5K)	115	5000K	17,365	151	0.9	80
MQHB-S-135-D-VS-CP (135W, 4K)	135	4000K	20,115	149	0.9	80
MQHB-S-135-D-VS-CP (135W, 5K)	135	5000K	20,250	150	0.9	80
MQHB-M-155-D-VS-4K	155	4000K	23,250	150	0.9	80
MQHB-M-155-D-VS-5K	155	5000K	23,405	151	0.9	80
MQHB-M-200-D-VS-CP (155W, 4K)	155	4000K	23,250	150	0.9	80
MQHB-M-200-D-VS-CP (155W, 5K)	155	5000K	23,870	153	0.9	80
MQHB-M-200-D-VS-CP (185W, 4K)	185	4000K	27,750	150	0.9	80
MQHB-M-200-D-VS-CP (185W, 5K)	185	5000K	28,536	153	0.9	80
MQHB-M-200-D-VS-CP (200W, 4K)	200	4000K	30,000	150	0.9	80
MQHB-M-200-D-VS-CP (200W, 5K)	200	5000K	30,200	151	0.9	80
MQHB-L-270-D-VS-4K	270	4000K	40,500	150	0.9	80
MQHB-L-270-D-VS-5K	270	5000K	40,770	151	0.9	80
MQHB-XL-400-D-VS-4K	400	4000K	60,000	150	0.9	80
MQHB-XL-400-D-VS-5K	400	5000K	60,400	151	0.9	80

LE-MS3-AUX SENSOR DETAILS (BLUETOOTH ENABLED) [Click here for sensor details](#)



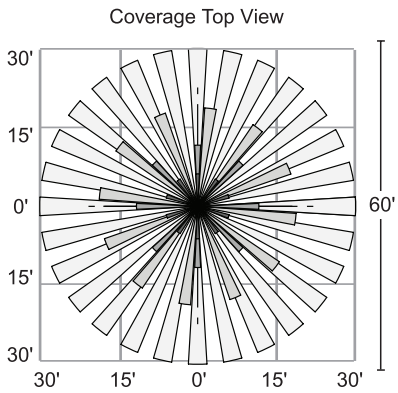
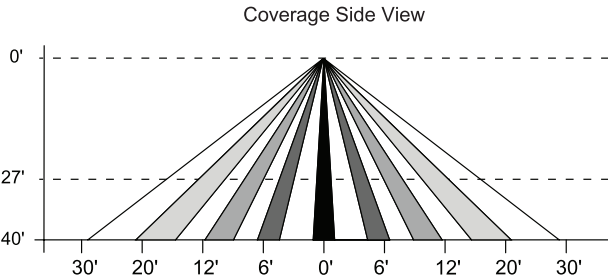
**SEE APP FOR  
SENSOR SETTINGS**

For a complete list of *litelogic* compatible products, [click here](#).



**Note:** Bluetooth sensor controls do not allow for CCT selection using the app. CCT must be manually selected on the fixture.

TL-MSP12 SENSOR DETAILS



360° Coverage

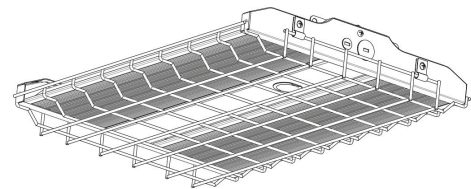
TL-MSP12 Sensor Settings (Remote)

DETECTION RADIUS/ANGLE	MAX 60'/360°
MOUNTING HEIGHT	MAX 40'
REMOTE RANGE	MAX 33'
FREQUENCY	5.8 GHz
HIGH MODE	70%, 80%, 90%, 100% (DEFAULT 100%)
SENSITIVITY	20%, 50%, 75%, 100% (DEFAULT 100%)
HOLD TIME	10sec, 1min, 5min, 10min, 15min, 20min, 30min, 60min (DEFAULT 5min)
DAYLIGHT HARVESTING	(disabled), 10Lux, 30Lux, 50Lux, 100Lux, 150Lux, 200Lux, 300Lux (DEFAULT disabled)
STANDBY DIM SETTING	0, 10%, 20%, 30%, OFF (∞), (DEFAULT 30%)
STANDBY TIME SETTING (TO OFF)	ON (disabled), 1min, 30min, 60min (DEFAULT 30min)

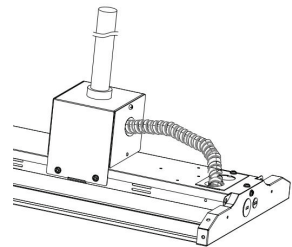


TL-MSSW-REMOTE = Remote for dimming sensor accessory (TL-MSP12) (Sold Separately)

**WIREGUARD ACCESSORIES (WG-MQHB-S, WG-MQHB-M, WG-MQHB-L, WG-MQHB-XL)**



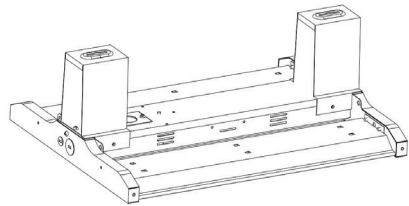
**PENDANT MOUNT KIT (MQHB-PM)**



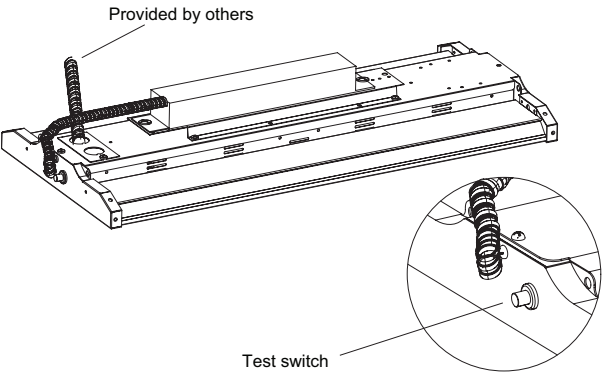
Electrical conduit  
& whip not included



**SURFACE MOUNT KIT (MQHB-SM)**



**BATTERY BACKUP (BB1 or BB2)**



**STEP DOWN TRANSFORMER (HVS 480V)**

