

## SPEC SHEET

# Ace LED High Bay (AH2)

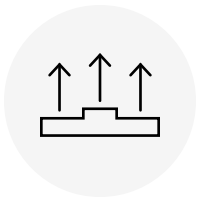
## LED HIGH BAY



Projected L70 up to 150,000 hours

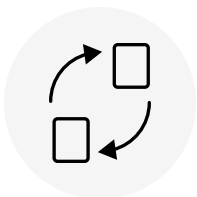
### KEY FEATURES

- 12,596 to 54,133 Lumens
- For 60,000 and 71,000 Lumens see AH1 XL Models (See Page 4)
- Up to 159 LPW
- Up to 55°C (131°F) Ambient
- Unique Aluminum Die-cast Housing and Heatsink
- Field-Replaceable Lenses (Frosted and Aisle Options Available)
- Emergency Battery Backup Available



### Superior Heat Dissipation

Die-cast aluminum housing and heat sink improve thermal transfer, keeping LEDs cool to increase performance and life.



### Field-Replaceable Lenses

Simply push the retaining clasp with your finger to swap lenses in seconds, no tools needed. Available in Frosted and Aisle in 45°, 65° and 90° beam angles.



### EZ-Connect™ Receptacle

The simplest and fastest way to add sensors and UltraLink wireless controls at any time in the field. Twist Lock system, no tools or wiring needed.

# FEATURES & SPECIFICATIONS

## CONSTRUCTION

- **Housing:** Aluminum die-cast.
- **Wireway Cover:** Steel.
- **Heat Sink:** Cast aluminum.
- **Wire Guards:** Field installed wire guards available, upgrades to IK07.
- **EZ-Connect™ Receptacle:** The simplest and fastest way to add sensors and wireless controls at any time on the field. Twist and Lock system, no tools or wiring needed.

## ELECTRICAL

- **Power Input:** 120-277V (50/60Hz) standard, 277-480V (50/60Hz) available as a special order with extended lead time.
- **Power Factor:** Greater than 0.9.
- **Total Harmonic Distortion:** Less than 20%.
- **Flicker:** Less than 5%.
- **Surge Protection:** 6kV.
- **Emergency Battery Backup<sup>2</sup>:** EMB for LV fixtures has 16 watts output, producing ~2,400 lumens for 90 minutes. EMB for HV fixtures of 16K lumens or less has 20 watts output, producing ~2,900 lumens for 90 minutes. EMB for HV fixtures of 20K lumens or greater has 40 watts output, producing ~5,900 lumens for 90 minutes. EMB2 (only available for LV fixtures) has 40 watts output, producing ~5,900 lumens for 90 minutes. EMBs can be ordered as an option (factory installed) or as an accessory (field installed).

## OPERATION

- **Environment:** Dry/Damp, for interior applications (IP20).
- **Ambient Range Operation:** -40°C up to 55°C (-40°F up to 131°F).

## OPTICS

- **CCT:** 5000K and 4000K available.
- **CRI:** 80+ (standard).
- **Lens:** Field-replaceable lenses. Factory-installed.
  - Frosted (standard).
  - Aisle lenses available in 45°, 65°, and 90° beam angle. Replacement lenses sold as an accessory.



## MOUNTING

- **Suspension Mounting:** Fixture is cable ready (CRM). Includes (2) 3 ft. chains and V-clips (standard). Other suspension mounting options available (see accessories).
- **Pendant Mounting (Stem)<sup>2</sup>:** 3/4" conduit stem mounting requires purchase of stem mounting bracket (see accessories).
- **Surface Mounting:** Requires purchase of surface mounting bracket (see accessories).

## CONTROLS<sup>1</sup>

- **Dimming:** 0-10V standard. Dimming range 100% to Off.
- **Occupancy Sensors:** PIR and Microwave occupancy sensors, On/Off/Dim. EZ-Connect™ Twist Lock system for field installation.
- **Networked Lighting Controls:** UltraLink Wireless Controls with Bluetooth® NLC Mesh technology. EZ-Connect™ Twist Lock system for field installation.

## WARRANTY

- **5 Year Warranty:** The fixture is guaranteed for 5 years free of defects in materials and workmanship, including LEDs and driver. "Defective" is considered if ten percent (10%) or more of the LEDs, per product, are non-operating LEDs, or color temperature has shifted more than 500° Kelvin within the warranty period. See terms and conditions at <https://linmoreled.com/warranty>

## LISTINGS & CERTIFICATIONS

- cUL.
- UL 1598.
- RoHS compliant.
- DesignLights™ Consortium Standard and Premium, depending on lens type. Refer to DLC QPL.

# TECHNICAL SPECS

FRAME SIZE	NOMINAL LUMENS	NOMINAL WATTS	LENS	LUMEN OUTPUT	EFFICACY	PART NUMBER
SM	12K	85	FR	13,372	158	AH20S-A2-12K-SM-50-80-FR-LV-CRM-EZ10-10V
			AL45	13,089	154	AH20S-A2-12K-SM-50-80-AL45-LV-CRM-EZ10-10V
			AL65	12,596	149	AH20S-A2-12K-SM-50-80-AL65-LV-CRM-EZ10-10V
			AL90	12,961	153	AH20S-A2-12K-SM-50-80-AL90-LV-CRM-EZ10-10V
	16K	105	FR	17,364	168	AH20S-A2-16K-SM-50-80-FR-LV-CRM-EZ10-10V
			AL45	17,084	164	AH20S-A2-16K-SM-50-80-AL45-LV-CRM-EZ10-10V
			AL65	16,411	159	AH20S-A2-16K-SM-50-80-AL65-LV-CRM-EZ10-10V
			AL90	17,222	165	AH20S-A2-16K-SM-50-80-AL90-LV-CRM-EZ10-10V
	20K	130	FR	21,835	166	AH20S-A2-20K-SM-50-80-FR-LV-CRM-EZ10-10V
			AL45	21,307	162	AH20S-A2-20K-SM-50-80-AL45-LV-CRM-EZ10-10V
			AL65	20,619	158	AH20S-A2-20K-SM-50-80-AL65-LV-CRM-EZ10-10V
			AL90	21,539	164	AH20S-A2-20K-SM-50-80-AL90-LV-CRM-EZ10-10V
MD	24K	160	FR	26,771	172	AH20S-A2-24K-MD-50-80-FR-LV-CRM-EZ10-10V
			AL45	25,832	167	AH20S-A2-24K-MD-50-80-AL45-LV-CRM-EZ10-10V
			AL65	24,970	161	AH20S-A2-24K-MD-50-80-AL65-LV-CRM-EZ10-10V
			AL90	26,131	168	AH20S-A2-24K-MD-50-80-AL90-LV-CRM-EZ10-10V
	31K	215	FR	35,645	169	AH20S-A2-31K-MD-50-80-FR-LV-CRM-EZ10-10V
			AL45	34,462	164	AH20S-A2-31K-MD-50-80-AL45-LV-CRM-EZ10-10V
			AL65	33,052	158	AH20S-A2-31K-MD-50-80-AL65-LV-CRM-EZ10-10V
			AL90	34,152	163	AH20S-A2-31K-MD-50-80-AL90-LV-CRM-EZ10-10V
LG	36K	255	FR	41,279	163	AH20S-A2-36K-LG-50-80-FR-LV-CRM-EZ10-10V
			AL45	38,811	154	AH20S-A2-36K-LG-50-80-AL45-LV-CRM-EZ10-10V
			AL65	36,308	144	AH20S-A2-36K-LG-50-80-AL65-LV-CRM-EZ10-10V
			AL90	38,618	160	AH20S-A2-36K-LG-50-80-AL90-LV-CRM-EZ10-10V
	43K	290	FR	49,274	171	AH20S-A2-43K-LG-50-80-FR-LV-CRM-EZ10-10V
			AL45	46,118	161	AH20S-A2-43K-LG-50-80-AL45-LV-CRM-EZ10-10V
			AL65	45,092	159	AH20S-A2-43K-LG-50-80-AL65-LV-CRM-EZ10-10V
			AL90	46,640	167	AH20S-A2-43K-LG-50-80-AL90-LV-CRM-EZ10-10V
	48K	320	FR	54,133	170	AH20S-A2-48K-LG-50-80-FR-LV-CRM-EZ10-10V
			AL45	53,842	175	AH20S-A2-48K-LG-50-80-AL45-LV-CRM-EZ10-10V
			AL65	49,733	159	AH20S-A2-48K-LG-50-80-AL65-LV-CRM-EZ10-10V
			AL90	51,798	166	AH20S-A2-48K-LG-50-80-AL90-LV-CRM-EZ10-10V

Typical lumen output (±10%) at 277V (LV), 5000K CCT and 25°C ambient temperature.

# AH1 XL MODELS FOR 60K AND 71K LUMENS

NOMINAL LUMENS	FRAME SIZE	WATTS	LUMEN OUTPUT	EFFICACY	PART NUMBER
60K	XL	420	60,060	143	AH10S-A2-60K-XL-50-80-FR-LV-CRM-EZ10-10V
71K	XL	500	71,000	142	AH10S-A2-71K-XL-50-80-FR-LV-CRM-EZ10-10V

Typical lumen output (±10%) at 277V (LV), 5000K CCT and 25°C ambient temperature.



For more information about AH1 XL models,

[Download AH1 Spec Sheet](#)

## ORDERING

SERIES MODEL - COMPLIANCE - LUMENS - SIZE	COLOR TEMP	CRI	LENS	VOLTAGE
AH10S-A2-60K-XL AH10S-A2-71K-XL	35 <sup>1,3</sup> 3500K  40 <sup>1</sup> 4000K  50 5000K	80 80+ CRI	FR Frosted lens	LV 120-277V  HV <sup>1</sup> 277-480V
- Leave Blank for No Cord -				
MOUNTING	OPTIONAL CORDS	SENSORS <sup>4</sup>	OPTIONS	DIMMING
CRM Cable-ready (standard)  Includes chain and V-clips for suspended mounting  Other mounting options available, see Accessories	10CW 10ft. White Cord, 10A, no plug (standard)  15CW 15ft. White Cord, 10A, no plug (standard)  20CW 20ft. White Cord, 10A, no plug (standard)	EZ10 EZ-Connect™ Receptacle with Twist Lock system (standard)  Sensors not included, see Controls pages for available products	EMB Emergency Battery Backup (40W), factory installed  ULTRA UltraLink Bluetooth NLC Wireless Fixture Controller (Node), Fixture Integrated, Factory Installed, 12Vdc Input, Silvair Firmware, includes Aerial Antenna.	10V 0-10V

Ordering Example: AH10S-A2-71K-XL-ADJ-80-FR-LV-CRM-10CW-S-EMB-10V

# ORDERING

SERIES MODEL - COMPLIANCE - LUMENS - SIZE		COLOR TEMP	CRI	LENS	VOLTAGE
AH20S-A2-12K-SM	AH20S-A2-31K-MD	40 4000K	80 80+ CRI	FR Frosted lens	LV 120-277V
AH20S-A2-16K-SM	AH20S-A2-36K-LG			AL45 Aisle lens, 45 degrees	HV 277-480V
AH20S-A2-20K-SM	AH20S-A2-43K-LG	50 5000K		AL65 Aisle lens, 65 degrees	
AH20S-A2-24K-MD	AH20S-A2-48K-LG			AL90 Aisle lens, 90 degrees	

MOUNTING	CONTROLS¹	OPTIONAL CORDS		OPTIONS	DIMMING
<b>CRM</b> Cable-ready (standard)  Includes chain and V-clips for suspended mounting  Other mounting options available, see Accessories	<b>EZ10</b> EZ-Connect™ Receptacle with Twist Lock system (standard)  Sensors not included, see Controls pages for available products	- Leave Blank for No Cord -		<b>EMB²³</b> Emergency Battery Backup, (16W, 20W or 40W), depending on model, factory installed  <b>EMB²²</b> Emergency Battery Backup (40W), factory installed. Only available for LV fixtures.	<b>10V</b> 0-10V
		<b>6' 18AWG cord with the following</b>  <b>CW</b> Cord, 15A, 3-wire, no plug  <b>DW</b> Dimming cord, 15A, 5-wire, no plug  <b>C515</b> Cord, 15A, straight plug 120V (5-15P)  <b>CL515</b> Cord, 15A, locking plug 120V (L5-15P)  <b>CL715</b> Cord, 15A, locking plug 277V (L7-15P)  <b>CL720</b> Cord, 20A, locking plug 277V (L7-20P)  <b>CL2420</b> Cord, 20A, locking plug 347V (L24-20P)  <b>CL820</b> Cord, 20A, locking plug 480V (L8-20P)	<b>10' 18AWG cord with the following</b>  <b>10CW</b> Cord, 15A, 3-wire, no plug  <b>15' 18AWG Cord with the following</b>  <b>15CW</b> Cord, 15A, 3-wire, no plug  <b>15DW</b> Dimming cord, 15A, 5-wire, no plug  <b>15C515</b> Cord, 15A, straight plug 120V (5-15P)  <b>15CL515</b> Cord, 15A, locking plug 120V (L5-15P)  <b>15CL715</b> Cord, 15A, locking plug 277V (L7-15P)  <b>15CL720</b> Cord, 20A, locking plug 277V (L7-20P)  <b>15CL2420</b> Cord, 20A, locking plug 347V (L24-20P)  <b>15CL820</b> Cord, 20A, locking plug 480V (L8-20P)		

Ordering Example: AH20S-A2-20K-SM-40-80-FR-LV-CRM-EZ10-10V

# ACCESSORIES

Must be ordered separately. Packaged separately.

## FIXTURE ACCESSORIES

Part Number	Type	Description
CABLEKIT2P	Cable Kit	Gripple Cable Kit. Includes (two) 10ft. aircraft straight cables and snap hooks (one pair).
CABLEKIT15	Cable Kit	Gripple Cable Kit. Includes (two) 15 ft. aircraft "Y" cables and snap hooks (one pair).
CABLEKIT20	Cable Kit	Gripple Cable Kit. Includes (two) 20 ft. aircraft "Y" cables and snap hooks (one pair).
AH2-STEM	Mounting Bracket	Pendant Mounting Bracket for existing 3/4" Conduit.
AH2-SURF	Mounting Bracket	Surface Mounting Bracket.
AH2-SM-WG	Wire Guard	Wire Guard for SM fixtures. Compatible with occupancy sensor. Field installed. Ships in a separate box.
AH2-MD-WG	Wire Guard	Wire Guard for MD fixtures. Compatible with occupancy sensor. Field installed. Ships in a separate box.
AH2-LG-WG	Wire Guard	Wire Guard for LG fixtures. Compatible with occupancy sensor. Field installed. Ships in a separate box.
AH2-EMB-16W-LV	Emergency Battery Driver	Emergency Battery Backup, 16W, ~2,400 lumens for 90 minutes, for Low Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-LV-SM	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for SM Low Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-LV-MD	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for MD Low Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-LV-LG	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for LG Low Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-20W-HV-SM	Emergency Battery Driver	Emergency Battery Backup, 20W, ~2,900 lumens for 90 minutes, for 12K and 15K High Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-HV-SM	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for 20K High Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-HV-MD	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for 24K and 31K High Voltage fixtures. Field installed. Ships in a separate box.
AH2-EMB-40W-HV-LG	Emergency Battery Driver	Emergency Battery Backup, 40W, ~5,900 lumens for 90 minutes, for 36K, 43K, and 48K High Voltage fixtures. Field installed. Ships in a separate box.



**AH2-STEM**  
Pendant Mounting Bracket



**AH2-SURF**  
Surface Mounting Bracket



**AH2-xxx-WG**  
Wire Guard

# ACCESSORIES




Must be ordered separately. Packaged separately.

REPLACEMENT LENSES		
Part Number	Type	Description
AH2-SM-FR	Replacement Lenses	Frosted Lenses (one pair) for SM fixtures. Easy swap, no tools needed. Field installed.
AH2-MD-FR	Replacement Lenses	Frosted Lenses (one pair) for MD fixtures. Easy swap, no tools needed. Field installed.
AH2-LG-FR	Replacement Lenses	Frosted Lenses (one pair) for LG fixtures. Easy swap, no tools needed. Field installed.
AH2-SM-AL45	Replacement Lenses	Aisle Lenses 45° (one pair) for SM fixtures. Easy swap, no tools needed. Field installed.
AH2-MD-AL45	Replacement Lenses	Aisle Lenses 45° (one pair) for MD fixtures. Easy swap, no tools needed. Field installed.
AH2-LG-AL45	Replacement Lenses	Aisle Lenses 45° (one pair) for LG fixtures. Easy swap, no tools needed. Field installed.
AH2-SM-AL65	Replacement Lenses	Aisle Lenses 65° (one pair) for SM fixtures. Easy swap, no tools needed. Field installed.
AH2-MD-AL65	Replacement Lenses	Aisle Lenses 65° (one pair) for MD fixtures. Easy swap, no tools needed. Field installed.
AH2-LG-AL65	Replacement Lenses	Aisle Lenses 65° (one pair) for LG fixtures. Easy swap, no tools needed. Field installed.
AH2-SM-AL90	Replacement Lenses	Aisle Lenses 90° (one pair) for SM fixtures. Easy swap, no tools needed. Field installed.
AH2-MD-AL90	Replacement Lenses	Aisle Lenses 90° (one pair) for MD fixtures. Easy swap, no tools needed. Field installed.
AH2-LG-AL90	Replacement Lenses	Aisle Lenses 90° (one pair) for LG fixtures. Easy swap, no tools needed. Field installed.

# BASIC CONTROLS

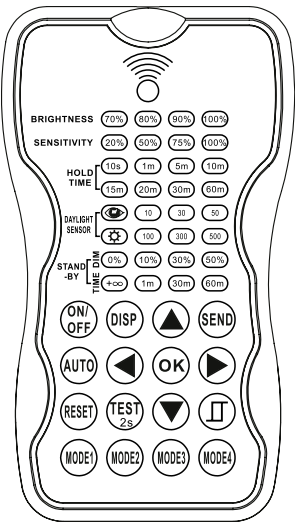
Controls are field installed, must be ordered as a new line item and will ship in a separate box.

## BASIC SENSORS<sup>1</sup>

	Part Number	Description
	PIR-WH-EZ10	PIR Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System, Plug & Play, On/Off/Dim, 40' Max Mounting Height, IP65. Field installed.
	MW-WH-EZ10	Microwave Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System, Plug & Play, On/Off/Dim, 40' Max Mounting Height, IP65. Field installed.
	SEN-PROG	Infrared Remote Programmer for Occupancy Sensors. Required to change default settings, modes of operation, and detection sensitivity for all EZ10 basic sensors.



### DEFAULT SETTINGS

For PIR and MW Sensors: Sensitivity=100%, Hold time=5min, Daylight sensor=disabled, Stand-by dim level=30%, Stand-by time=60min.



### INFRARED REMOTE PROGRAMMER

Required to change default settings, modes of operation, and sensitivity.

<b>Brightness</b>	Light output during occupancy (70%, 80%, 90%, 100%).		<b>Daylight harvesting function.</b> Selects the current surrounding lux value as the daylight threshold.
<b>Sensitivity</b>	Detection area of the sensor (20%, 50%, 75%, 100%).		<b>Daylight sensor disabled.</b> All motion detected turns on the light, no matter how bright the natural light is.
<b>Hold Time</b>	Time the sensor waits to turn off or dim the light after the area is vacated.	<b>Stand-by Dim</b>	Light output during vacancy (0%, 10%, 30%, 50%).
<b>Daylight Sensor</b>	Daylight sensor status and daylight threshold values in lux.	<b>Stand-by Time</b>	Time the sensor keeps the light at stand-by dim level after the hold time has elapsed.

### Scene Modes

The remote comes with four pre-programmed modes. These can be used as is, or adjusted with different parameters and saved over an existing mode.

Scene	Application	Brightness	Sensitivity	Hold Time	Stand-by Dim	Stand-by Time	Daylight Sensor
MODE 1	Indoor	100%	75%	5min	30%	30min	Disabled
MODE 2	Indoor	100%	75%	1min	30%	+∞	Disabled
MODE 3	Indoor	100%	75%	5min	30%	30min	30lux
MODE 4	Outdoor	100%	75%	1min	30%	+∞	30lux/300lux





# ULTRALINK BLUETOOTH CONTROLS









Controls are field installed, must be ordered as a new line item and will ship in a separate box.

## ULTRALINK CONTROLLERS / SENSORS<sup>1</sup>

Part Number	Description
 <b>ULTRA-WH-EZ10</b>	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller, White Color, EZ-Connect Twist Lock System, IP65, Silvair Firmware. Field installed.
 <b>ULTRAHGA-CL-EZ10</b>	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller with Long Range Antenna, Clear Color, EZ-Connect Twist Lock System, IP65, Silvair Firmware. Field installed.
 <b>ULTRAPIR-WH-EZ10</b>	UltraLink Bluetooth NLC Wireless Fixture Controller with PIR Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System, 40' Max Mounting Height, IP65, Silvair Firmware. Field installed.
 <b>ULTRAMW-WH-EZ10</b>	UltraLink Bluetooth NLC Wireless Fixture Controller with Microwave Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System, 40' Max Mounting Height, IP65, Silvair Firmware. Field installed.
 <b>SEN-PROG</b>	Infrared Remote Programmer for Occupancy Sensors. Only required for EZ10 UltraLink sensors to change detection sensitivity.

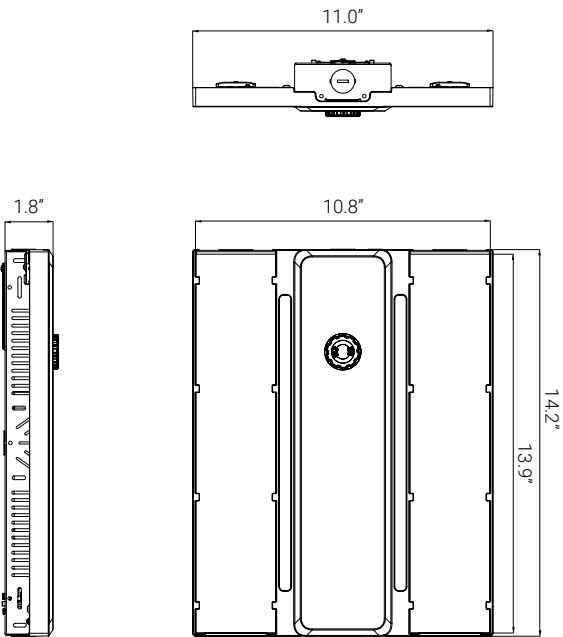
## ULTRALINK ACCESSORIES

Part Number	Description
 <b>ULTRAGATEWAY</b>	UltraLink Bluetooth NLC Wireless Gateway, required for Advanced Features and Time-Based Events. One gateway can control up to 200 fixtures, allowing for energy monitoring, people tracking, and scheduling. Interior installation only.
 <b>ULTRAGATEWAY-4G</b>	UltraLink Bluetooth NLC Wireless Gateway, RJ45 Ethernet Connector and SIM Card Slot for 4G Cellular Connectivity, PoE or 120V AC Power Adapter, Long Range Bluetooth Mesh, Hardware Security Module, Encrypted File System, Secure Boot, Interior installation only.
 <b>ULTRAGATEWAY-EXT</b>	UltraLink Bluetooth NLC Wireless Exterior Rated Gateway Box with Long Range Antenna, includes ULTRAGATEWAY. 120-277V Power Supply required.
 <b>ULTRAGATEWAY-EXT-4G</b>	UltraLink Bluetooth NLC Wireless Exterior Rated Gateway Box with Long Range Antenna and 4G Cellular Connectivity. Includes ULTRAGATEWAY-4G in a Vented, Temperature-Controlled NEMA Enclosure, Universal Voltage (120, 208, 240, 277, and 480V), Wall Mount, 24 Hour Battery Backup. Optional pole mount kit. Cellular data plans available.
 <b>ULTRATIME-BAT</b>	UltraLink Bluetooth NLC Time-Keeping Battery Backup includes an Outdoor Rated Enclosure, a Long Range Antenna and a Backup Battery. For use to keep time during a power outage and for in-node scheduling.
 <b>ULTRADASH</b>	UltraLink Dashboards for Energy, Occupancy Heat Mapping, and Energy Heat Mapping. Gateway (ULTRAGATEWAY) required, sold separately.

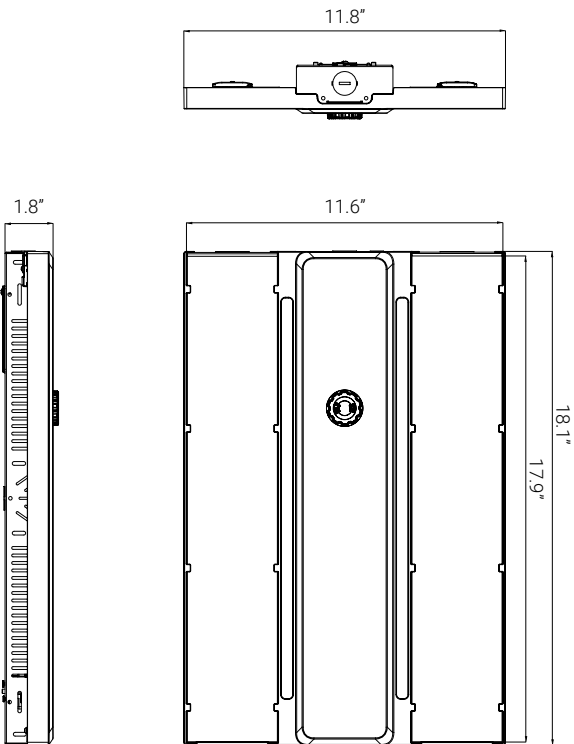
Technology Partner **SILVAIR**

# DIMENSIONS & DRAWINGS

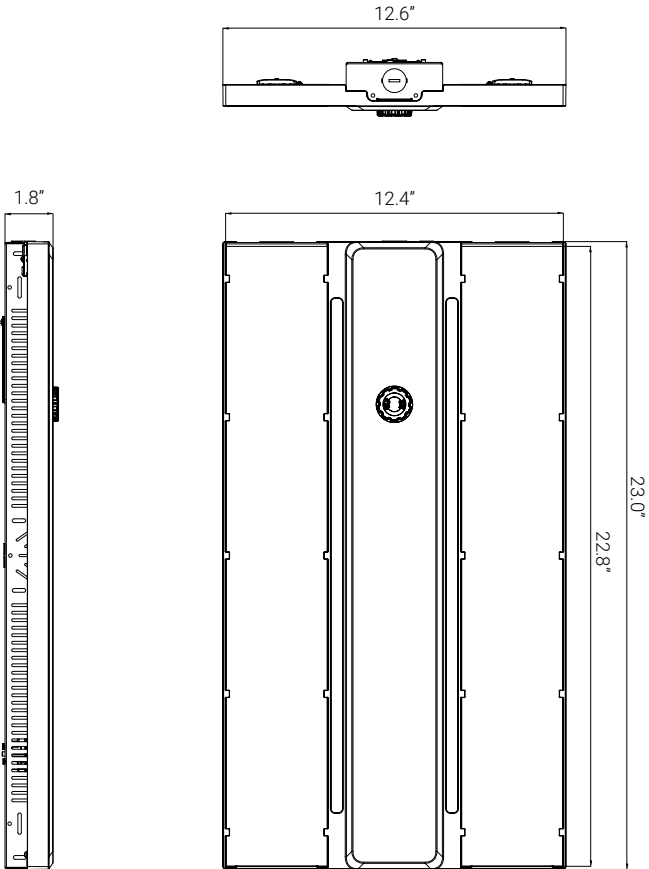
SM



MD



LG



## FOOTNOTES

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1. The performance of sensors and lenses is influenced by various factors beyond Linmore LED's control, including but not limited to environmental conditions, user settings, and proper maintenance. While we provide detailed specifications and guidelines to help optimize performance, we cannot guarantee or be held liable for the performance of sensors or lenses under any particular circumstance(s). Customers are advised to test the products in their specific application environments to ensure suitability for their intended use and are responsible for all sensor and lens selections.
2. Pendant mounting is not compatible with EMB installation.
3. EMB for LV fixtures has 16 watts output, producing ~2,400 lumens for 90 minutes. EMB for HV fixtures of 16K lumens or less has 20 watts output, producing ~2,900 lumens for 90 minutes. EMB for HV fixtures of 20K lumens or greater has 40 watts output, producing ~5,900 lumens for 90 minutes.

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