

SPEC SHEET

Ace LED High Bay Troffer (AT20H)

HIGH LUMEN LED TROFFER FOR HIGH BAY APPLICATIONS



Projected L70 up to 150,000 hours

KEY FEATURES

- 6,000 to 35,200 Lumens
- Up to 160 LPW
- 1x4, 2x2 and 2x4 Models
- Recessed and Surface Mounting Options
- Frosted Lens
- Up to 50°C Ambient
- 6kV Surge Protection
- Emergency Battery Backup Available



High Lumen Output

Maximum light, minimal footprint. Powerful, uniform illumination for high bay applications where performance matters most.



Modern Aesthetics

Clean, modern, minimalistic design that creates an all new look for high bay lighting and transforms a work place.



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:** Galvanized steel sheet.
- **Housing Color:** White.
- **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 or 347-480V (50/60Hz).
- **Power Factor:** Greater than 0.9.
- **Total Harmonic Distortion:** Less than 20%.
- **Surge Protection:** 6kV (standard).
- **Emergency Battery Backup:** EMB has 40 watts output, producing ~5,400 lumens for 90 minutes. Sold as an accessory (field installed).

OPERATION

- **Environment:** For interior applications, dust-resistant, listed for damp locations.
- **Ambient Range Operation:** -20°C up to 50°C (-4°F up to 122°F).

OPTICS

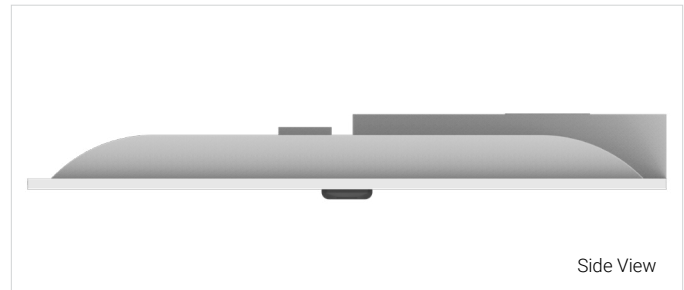
- **CCT:** 3500K, 4000K, and 5000K available.
- **CRI:** 80+ standard.
- **Lens:** Polycarbonate, Frosted.

MOUNTING

- **Recessed:** In T-bar grid ceiling with integral earthquake clips for secure attachment enclosure.
- **Surface Mount:** Surface mount kit available as an accessory.



Back View



Side View

CONTROLS¹

- **Dimming:** 0-10V standard. Dimming range 100% to 10% and then 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://linmore.com/warranty>

LISTINGS & CERTIFICATIONS

- UL listed.
- RoHS compliant.
- IC rated for insulated ceilings.
- UL listed for damp locations.
- DesignLights™ Consortium Premium.

TECHNICAL SPECS

SIZE	WATTS	LUMEN OUTPUT	EFFICACY	PART NUMBER
1x4	45	6,000	135	AT20H-A2-06K-14-50-80-FR-LV-GRID-EZ10-10V
	104	14,000	135	AT20H-A2-14K-14-50-80-FR-LV-GRID-EZ10-10V
	110	17,600	160	AT20H-A2-18K-14-50-80-FR-LV-GRID-EZ10-10V
2x2	45	6,000	135	AT20H-A2-06K-22-50-80-FR-LV-GRID-EZ10-10V
	104	14,000	135	AT20H-A2-14K-22-50-80-FR-LV-GRID-EZ10-10V
	110	17,600	160	AT20H-A2-18K-22-50-80-FR-LV-GRID-EZ10-10V
2x4	88	12,000	135	AT20H-A2-12K-24-50-80-FR-LV-GRID-EZ10-10V
	210	28,000	135	AT20H-A2-28K-24-50-80-FR-LV-GRID-EZ10-10V
	220	35,200	160	AT20H-A2-36K-24-50-80-FR-LV-GRID-EZ10-10V

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

ORDERING

SERIES MODEL - COMPLIANCE - LUMENS - SIZE		COLOR TEMP	CRI	LENS	VOLTAGE
1x4 AT20H-A2-06K-14 AT20H-A2-14K-14 AT20H-A2-18K-14 2x2 AT20H-A2-06K-22 AT20H-A2-14K-22 AT20H-A2-18K-22	2x4 AT20H-A2-12K-24 AT20H-A2-28K-24 AT20H-A2-36K-24	50 5000K 40 4000K 35 3500K	80 80+ CRI	FR Frosted lens	LV 120-277V HV 347-480V
MOUNTING		CONTROLS¹		DIMMING	
GRID Standard mounting for grid ceilings Safety Cable mounting optional, see Accessories		EZ10 EZ-Connect™ Receptacle with Twist Lock system (standard) Sensors not included, see Controls pages for available products		10V 0-10V	

Ordering Example: AT20H-A2-14K-22-50-80-FR-LV-GRID-EZ10-10V

MODELS



ACCESSORIES

Must be ordered separately. Packaged separately.

FIXTURE ACCESSORIES		
Part Number	Type	Description
CABLEKIT-LOOP10P	Cable Kit	Gripple Cable Kit. Includes (two) 10 ft. aircraft cables with adjustable end loop. Pack of 10 cables.
CABLEKIT-LOOP10P-SS	Cable Kit	Gripple Cable Kit. Includes (two) 10 ft. aircraft cables with adjustable end loop. Stainless Steel. Pack of 10 cables.
AT2-DWK14	Drywall Kit	Drywall Kit for 1x4 Ace LED Troffer, Flush Mount.
AT2-DWK22	Drywall Kit	Drywall Kit for 2x2 Ace LED Troffer, Flush Mount.
AT2-DWK24	Drywall Kit	Drywall Kit for 2x4 Ace LED Troffer, Flush Mount.
AT2-SMK14	Surface Mount Kit	Surface Mounting Kit for 1x4 Ace LED Troffer.
AT2-SMK22	Surface Mount Kit	Surface Mounting Kit for 2x2 Ace LED Troffer.
AT2-SMK24	Surface Mount Kit	Surface Mounting Kit for 2x4 Ace LED Troffer.
AT20H-EMB-40W-LV	Battery Backup Driver	Emergency Backup Driver with Battery, 40W, ~5,400 lumens for 90 minutes. Field installed. Ships in a separate box.
AT20H-EMB-40W-HV	Battery Backup Driver	Emergency Backup Driver with Battery, 40W, ~5,400 lumens for 90 minutes. Field installed. Ships in a separate box.

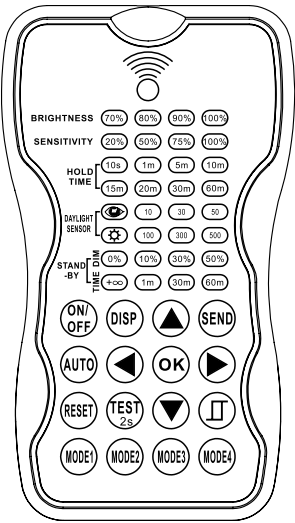
BASIC CONTROLS

BASIC SENSORS^{1,2}

	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.

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

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.			
Brightness	Light output during occupancy (70%, 80%, 90%, 100%).		Daylight harvesting function. Selects the current surrounding lux value as the daylight threshold.
Sensitivity	Detection area of the sensor (20%, 50%, 75%, 100%).		Daylight sensor disabled. All motion detected turns on the light, no matter how bright the natural light is.
Hold Time	Time the sensor waits to turn off or dim the light after the area is vacated.	Stand-by Dim	Light output during vacancy (0%, 10%, 30%, 50%).
Daylight Sensor	Daylight sensor status and daylight threshold values in lux.	Stand-by Time	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 CONTROLLERS / SENSORS¹

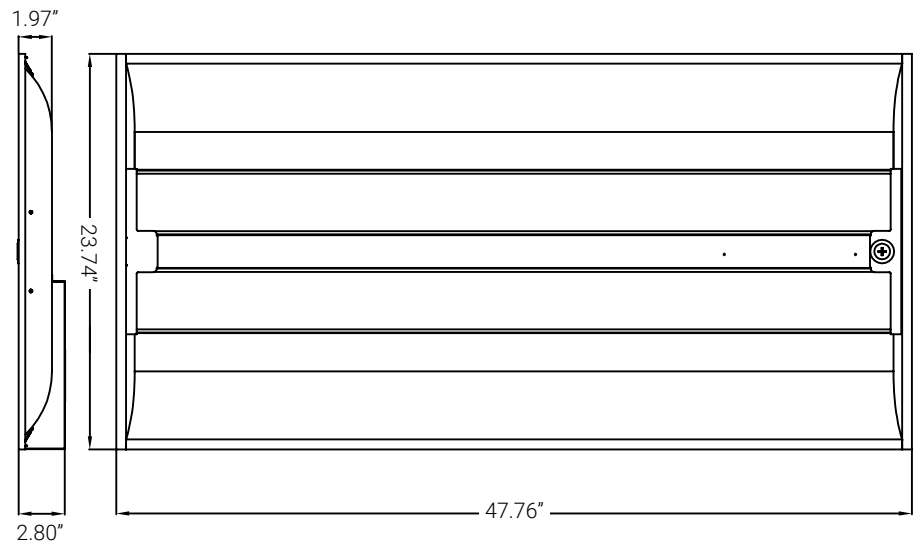
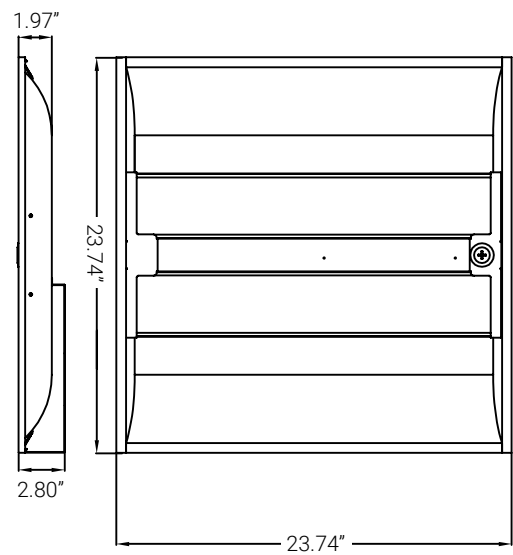
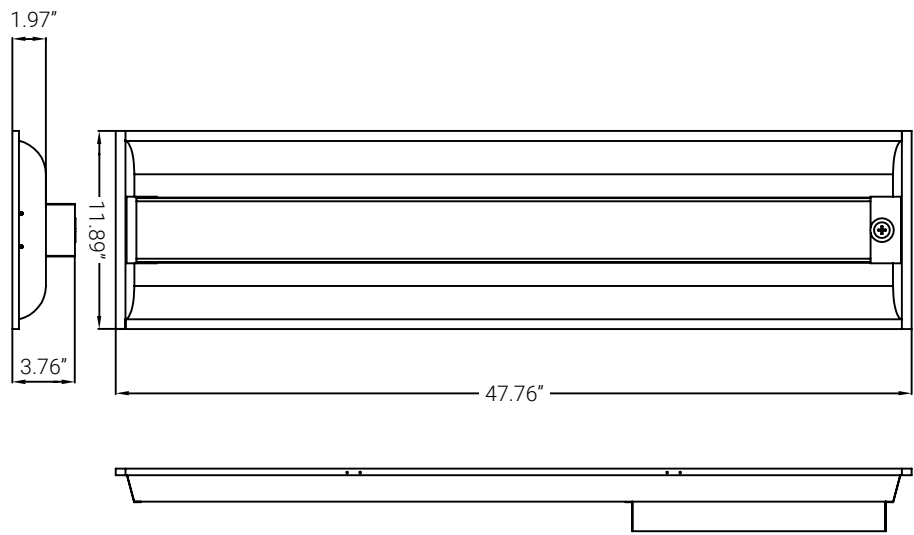
	Part Number	Description
	ULTRA-WH-EZ10	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller, White Color, EZ-Connect Twist Lock System, IP65, Silvair Firmware. Field installed.
	ULTRAHGA-CL-EZ10	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller with Long Range Antenna, Clear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

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

ULTRALINK ACCESSORIES

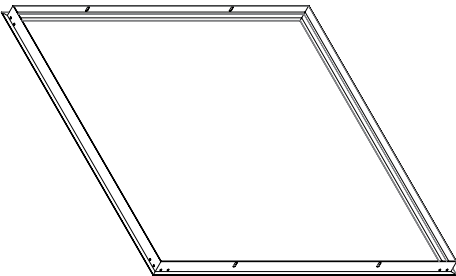
	Part Number	Description
	ULTRAGATEWAY	UltraLink Bluetooth NLC Wireless Gateway, required for Advanced Features and Time-Based Events. One gateway can control up to 200 fixtures, allowing for energy monitoring, people tracking, and scheduling. Interior installation only.
	ULTRAGATEWAY-EXT	UltraLink Bluetooth NLC Wireless Exterior Rated Gateway Box with Long Range Antenna, includes ULTRAGATEWAY. 120-277V Power Supply required.
	ULTRAGATEWAY-EXT-4G	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.
	ULTRATIME-BAT	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.
	ULTRADASH	UltraLink Dashboards for Energy, Occupancy Heat Mapping, and Energy Heat Mapping. Gateway (ULTRAGATEWAY) required, sold separately.

DIMENSIONS & DRAWINGS



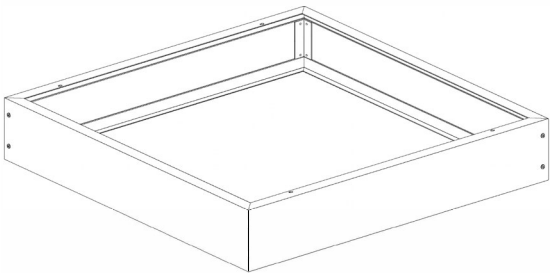
DIMENSIONS & DRAWINGS

Drywall Kit



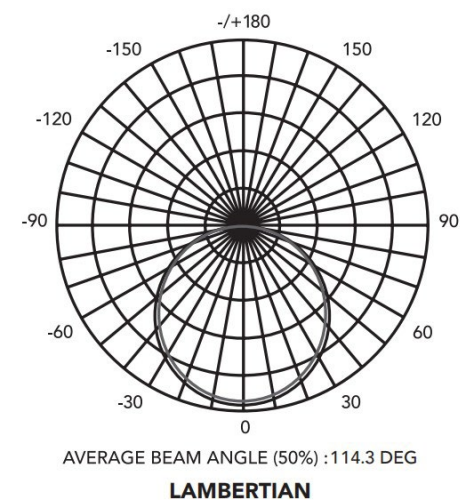
Size	L	W	H	Weight
1x4	48.94"	12.91"	0.98"	~ 1.2 lbs
2x2	24.92"	24.92"	0.98"	~ 1.0 lbs
2x4	48.94"	24.92"	0.98"	~ 1.4 lbs

Surface Mount Kit

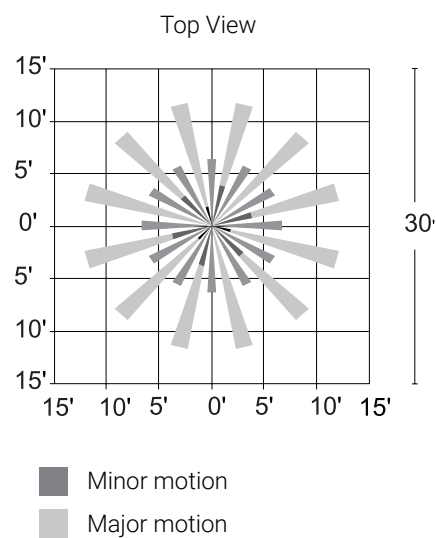
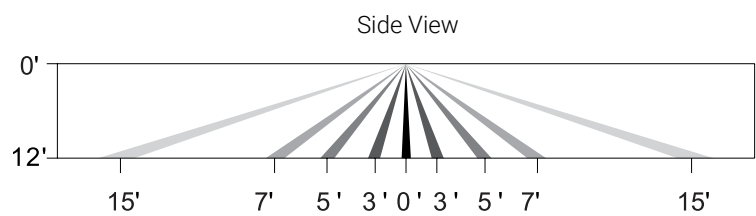


Size	L	W	H	Weight
1x4	48.07"	12.28"	4.13"	~ 3.1 lbs
2x2	24.06"	24.06"	4.13"	~ 2.6 lbs
2x4	48.07"	24.06"	4.13"	~ 3.7 lbs

PHOTOMETRY



SENSOR COVERAGE



FOOTNOTES

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.

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