LinmoreLED
ULTRA PERFORMANCE LIGHTING

PROJECT NAME		DATE	
CAT. NUMBER			
NOTES			

SPEC SHEET

High Output Troffer (HT1)

RECESSED LED TROFFER

BUY AMERICAN ACT COMPLIANT

DLC LISTED | TRUSTED NLB WARRANTY | Ready | ETL Intertek

IP4X | up to 10kA | 0-10V

Projected L70 up to 268,000 hours

10 YEAR PERFORMANCE WARRANTY L70

Guaranteed Performance

Performance of the light fixture is guaranteed for 10 years, including lumen output (L70), color temperature, and LED driver.

High Lumen Output

Compared to the competition, our HT1 troffer has superior lumen output, up to 24,000 lumens, with even light distribution.

Controls and IoT Ready

Optional integrated controls systems available including basic on/off, dimming and Bluetooth® with Building Systems Integration.

KEY FEATURES

- 12,000 to 24,000 lumens
- Up to 151 LPW
- Beautiful aesthetics
- Up to 45°C ambient
- Guaranteed light levels for 10 years
- Dimmable 0-10V (standard)
- 6KV surge protection (10KV optional)

FEATURES & SPECIFICATIONS

CONSTRUCTION

- **LED Boards:** FR4 PCB is used to limit stress on solder joints by matching coefficient of thermal expansion between the LED and the PCB more closely.
- **Power Supply Access:** Easy access from the top of the fixture.
- **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. Available as an option.

ELECTRICAL

- **Power Input:** 120-277V or 347-480V (50/60Hz).
- **Power Factor:** Greater than 0.9 (0.96 - 0.99 typical).
- **Total Harmonic Distortion:** Less than 20%, 10% typical.
- **Surge Protection:** Standard is 6kV for drivers. Additional surge protection is available. All HV orders will have 10kV SRG automatically added (contact sales for questions).
- **Emergency Battery Backup:** EMB has 16W output, producing ~2,000 lumens for 90 minutes (available for LV only). Factory installation only, not able to be field installed. Not to exceed ambient of fixture.[1]

OPERATION

- **Environment:** Dry/Damp, for interior applications (IP4X). Non IC rated.
- **Ambient Range Operation:** -40°C up to 45°C (-40°F up to 113°F).[1]

OPTICS

- **CCT:** 3500K, 4000K and 5000K standard, other CCT available (extended lead time).
- **CRI:** 80 standard, other CRIs available upon request (extended lead time).
- **Lenses:** Frosted acrylic.

MOUNTING

- **Mounting:** Fixture is able to be mounted in a standard drop/grid ceiling and also has holes for attaching cables. Non IC rated.

CONTROLS[10]

- **Dimming:** 0-10V standard. Dimming range 100% to 10%, 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. Available as an option.

WARRANTY

- **10 Year Performance Warranty:** Performance of the light fixture is guaranteed for 10 years, including lumen maintenance (L70), color temperature, and LED driver. "Defective" is considered if ten percent (10%) or more of the LEDs, per product, are non-operating LEDs, total lumen depreciation exceeds 30% (L70), or color temperature has shifted more than 500° Kelvin within the warranty period. See terms and conditions at https://linmoreled.com/warranty

LISTINGS & CERTIFICATIONS

- ETL listed (UL 1598).
- RoHS Compliant.
- CSA.22.2.
- EMI: Title 47 CFR 15 Class A, ICES-005:2009.
- LM-79, LM 80 and TM-21 tests and reports are performed in accordance to IESNA standards, per TM-21.
- DesignLights™ Consortium.

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TECHNICAL SPECS

SIZE	LUMEN OUTPUT[2]	EFFICACY	WATTS	PART NUMBER
2x2	11,990	128	94	HT10S-A1-12K-22-50-80-FR-LV-GRID-10V
	18,251	135	135	HT10S-A1-18K-22-50-80-FR-LV-GRID-10V
2x4	13,023	139	94	HT10S-A1-12K-24-50-80-FR-LV-GRID-10V
	18,302	122	150	HT10S-A1-18K-24-50-80-FR-LV-GRID-10V
	23,990	128	188	HT10S-A1-24K-24-50-80-FR-LV-GRID-10V

[2] Typical (±10%) at 277V (LV), 25°C, 4000K/5000K, Frosted Lens, CRI 80+

Lumen Multipliers

Allows to calculate the actual lumen output for your application.

LUMENS VS AMBIENT TEMP		
C°	F°	Multiplier
35	95	0.99
40	104	0.98
45	113	0.98

COLOR TEMP	
CCT	Multiplier
5000	1.000
4000	1.000

COLOR RENDERING	
CRI	Multiplier
80	1.000

LIGHT DISTRIBUTION	
Lens	Multiplier
FR	1.000

Example: How to calculate the actual lumen output of the model 24K at these conditions: 45°C ambient temp, 4000K, CRI80, Frosted Lens.

1) Take the lumen output of the fixture.
2) Apply all the corresponding multipliers.

24,112	x	0.98	x	1.000	x	1.000	x	1.000	=	23,630
Lumens		Temp.		CCT		CRI		Lens		Actual lumens

LUMEN MAINTENANCE

All fixtures come with our Standard Warranty, covering **L70 light levels for 10 years**.
That's 87,360 hours of guaranteed life based on a 24/7 operation.

Ambient Temp.		Lumen Maintenance in Hours		
C°	F°	L90	L80	L70
25	77	83	170	268
30	86	79	160	253
35	95	74	152	239
40	104	70	144	227
45	113	66	136	214

Lumen Maintenance Factor		
50Khrs	75Khrs	100Khrs
95	92	89
94	91	88
94	91	87
93	90	87
93	89	86

Reported Life (6X)	
Tested Time	Extrapolated
9,000 hrs	> 54,000 hrs

LEDs tested for 13,000 hrs based on LM-80.

Extrapolating as per TM-21:
13,000 hrs x 6 = 78,000 hrs of reported life.

All values calculated in accordance to IESNA standards, per TM-21.LM-79, LM 80 tests and reports are performed in accordance to IESNA standards, per TM-21. Lumen maintenance in hours (L70 via TM-21) based on 24/7 operation.

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ORDERING

SERIES MODEL - COMPLIANCE - LUMENS - SIZE	COLOR TEMP	CRI	LENS	VOLTAGE	MOUNTING
HT10S-A1-12K-22 HT10S-A1-18K-22 HT10S-A1-12K-24 HT10S-A1-18K-24 HT10S-A1-24K-24	**50** 5000K **40** 4000K **35**[7] 3500K Other CCT available upon request	**80** (Standard) **90**[4] (Extended lead time) Other CRI available upon request	**FR** Frosted lens, Wide distribution	**LV** 120-277V **HV**[8] 347-480V	**GRID**[5] Standard mounting for grid ceilings. Safety and Cable mounting optional, see Accessories.

CONTROLS[10]	OPTIONS[4]		DIMMING
LOCCDIM12 (LV)[4,6] PIR Occupancy and Daylight Sensor, On/Off/ Dim, 12' Max Mounting Height, IP66. LV only. **LOCCDIM40 (LV)**[4,6] PIR Occupancy and Daylight Sensor, On/Off/ Dim, 20' to 40' Mounting Height, IP66. LV only.	**EZ10** EZ-Connect™ Receptacle with Twist Lock system, for use with 0-10V control protocols (standard) **EZ18** EZ-Connect™ Receptacle with Twist Lock system and Zhaga Book 18 interface, for use with 0-10V control protocols Sensors not included, see Controls pages for available EZ10 products	**EMB**[1,4] Emergency battery back-up (16W). LV only. Adds 1.25" to fixture height **SRG**[4,8] Fixture-installed 10kA surge protector fails to ON **QDC**[4] Driver Quick Disconnect	**10V** 0-10V

ORDERING EXAMPLES

Standard: HT10S-A1-24K-24-50-80-FR-LV-GRID-10V

With Options: HT10S-A1-24K-24-50-80-FR-LV-GRID-**EMB**-10V

DLC: HT10S-A1-24K-24-50-80-FR-LV-GRID-[LV, HV]-[ALL MOUNTING OPTIONS]-[ALL OCCUPANCY SENSORS]-[ALL OPTIONS]-10V

ACCESSORIES

Must be ordered separately. Packaged separately.

FIXTURE ACCESSORIES

Part Number	Type	Description
SAFETYCABLE	Safety Kit	Kit includes (1) 5 ft. aircraft cable with single snap hook, L-bracket, screw and nut. For use with all mounting options.
CABLEKIT	Cable Kit	Kit includes (2) 10 ft. aircraft "Y" cables and snap hooks (one pair).
DK22	Drywall Kit 2x2	Drywall trim kit for 2x2 troffers.
DK24	Drywall Kit 2x4	Drywall trim kit for 2x4 troffers.

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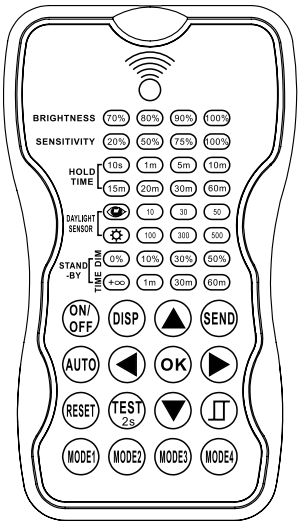
BASIC CONTROLS

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

BASIC SENSORS[9,10]

	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.

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 ellapsed.

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

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ULTRALINK BLUETOOTH CONTROLS

Linmore LED ULTRALINK WIRELESS CONTROLS SIMPLIFIED

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

ULTRALINK CONTROLLERS / SENSORS[9,10]

	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.

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-4G	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.
	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.

Bluetooth® NLC

Technology Partner SILVAIR

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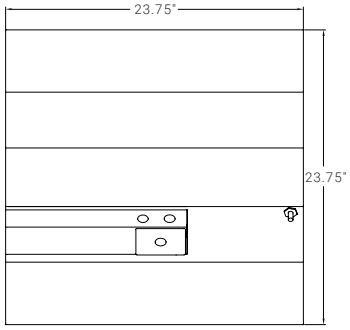
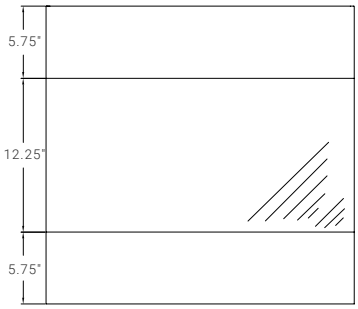
DIMENSIONS & DRAWINGS

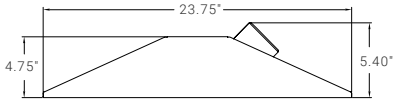
2X2



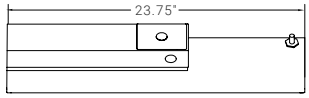
TOP VIEW



BOTTOM VIEW

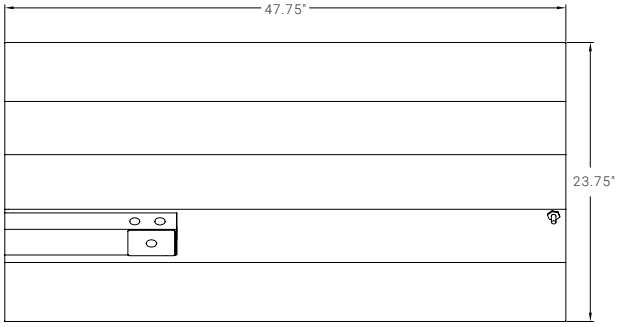


END VIEW



SIDE VIEW

2X4



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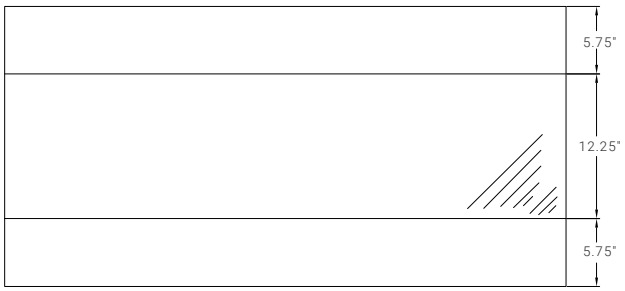
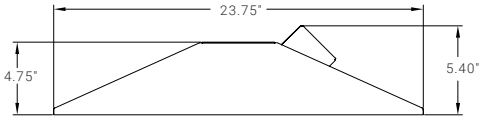
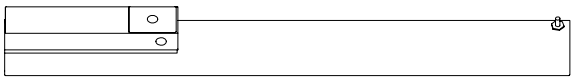


BOTTOM VIEW



END VIEW



SIDE VIEW

DIMENSIONS

Size	Length (in)	Width (in)	Height (in)	Weight (lb)
2x2	23.75	23.75	5.4	11.4
2x4	47.75	23.75	5.4	17.6

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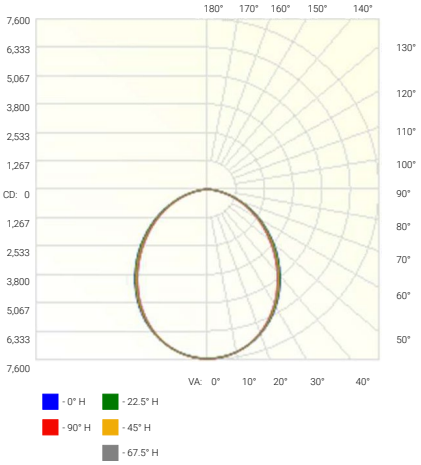
LIGHT DISTRIBUTION

FROSTED

Polar Graph

HT1XS-AX-18K-24-40-80-FR-LV-GRID-10V



Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt.
0-30	5690.1	30.5	30.5
0-40	9103.7	48.7	48.7
0-60	15279.8	81.8	81.8
60-90	3404.9	18.2	18.2
0-90	18684.7	100	100
90-180	0	0	0
0-180	18684.7	100	100
Total luminaire efficiency = 100.00%			

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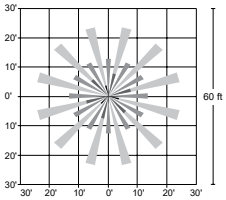
OCCUPANCY SENSORS

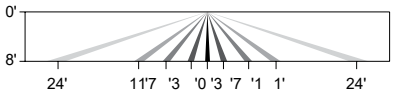
WATTSTOPPER

OCC8 / OCCDIM8

Top View

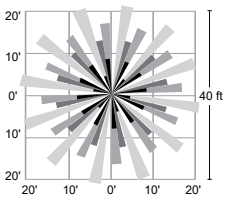


Side View

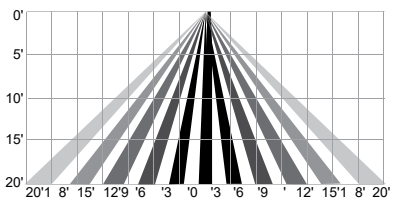


OCC20 / OCCDIM20

Top View

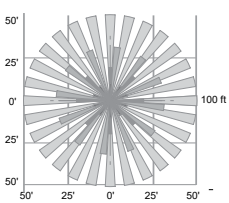


Side View

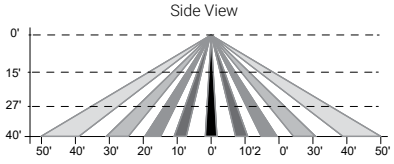


OCC40 / OCCDIM40

Top View



Side View



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FOOTNOTES

1. EMB fixtures (0°C to 45°C), LV (120-277) only. Temperatures below -20°C have limited switch cycles, consult factory.
2. Typical at 277V (LV) and (25°C), 5000K, Frosted Lens, +/-10%. Typical CRI 80+.
3. Dimensions listed are for the fixture only. See dimensional drawings for measurements with mounting hardware. Weights are approximate and vary by model, if weight is a concern, please contact factory. Weight changes when battery backup is added.
4. Optional add-on. See price list for pricing.
5. Optional CABLEKIT ordered separately. See ACCESSORIES.
6. Wireless programmer required for final field setup. See ACCESSORIES.
7. 3500 CCT not DLC qualified
8. SRG (10kA protection) is standard option on all HV fixtures.
9. 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.
10. Linmore LED recommends all fixtures equipped with controls and/or sensors should be ordered with SRG or SRGOFF option as controls and sensors are not protected by the internal surge suppression provided by the driver.

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LinmoreLED® ULTRA PERFORMANCE LIGHTING

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