HT1 Series

LED High Output Troffer

High output, interior troffer design used in high ceiling applications requiring superior lumen output, ultra-long life and high quality of light.

Applications: Automotive Showrooms, Big Box Retailers, Convention Centers, Warehouses and Schools/Universities.

Project Name	
Date	
Cat. Number	
Туре	











Nominal Lumens	Size	Lumen Output ²	Efficacy	Watts	Part Number
12000	2x2	12207	133	92	HT10S-A1-12K-22-50-80-FR-LV-GRID-10V
12000	2x4	12207	133	92	HT10S-A1-12K-24-50-80-FR-LV-GRID-10V
18000	2x2	18133	138	131	HT10S-A1-18K-22-50-80-FR-LV-GRID-10V
18000	2x4	18538	151	123	HT10S-A1-18K-24-50-80-FR-LV-GRID-10V
24000	2x4	24112	129	187	HT10S-A1-24K-24-50-80-FR-LV-GRID-10V

²Typical at 277V (LV) and (25°C), 4000/5000 CCT, Frosted Lens, +/-10%. Typical CRI 80+.

Features & Specifications

- Environment: Dry/Damp, for interior applications (IP4X).
 Non IC rated.
- Ambient Range Operation: -40°C up to 45°C (-40°F to 113°F)¹
- Lenses: Frosted acrylic.
- Power Supply Access: Easy access from the top of the fixture.
- Mounting Options: Fixture is able to be mounted in a standard drop/grid ceiling and also has holes for attaching cables. Non IC rated.
- LED: 3500K, 4000K and 5000K standard, 80CRI (standard). Other CCTs and CRIs available upon request.
- Warranty: 5-year standard, up to 10-year optional.

Projected Lumen Maintenance

TM-21 from initial lumens (based on 24/7 operation)

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.64%	95.13%	89.78%	278,000 hours
45°C	99.30%	93.70%	87.14%	222,000 hours

Power & Control

- Power input: 120-277V (50/60Hz).
- Dimming: 0-10V dimming standard. Capable of dimming down to 10%.
- Power Factor: Greater than 0.9 (0.96-0.99 typical).
- Total Harmonic Distortion: Less than 20%, 10% typical.
- Occupancy Sensors: Optional factory installed photocell sensors for motion and daylight harvesting.¹²
- Emergency Battery Backup: Initial lumen output is 2200-2400 lumens, thereafer EMB produces 1900-2000 lumens for a minimum of 90 minutes. 16 watts initial output. Temperature range 0°C to 45°C.

Ordering Example

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

Base Fixture with Options: HT10S-A1-24K-24-50-80-FR-LV-GRID-EMB-CTRL-10V

DLC Number: HT10S-A1-24K-24-50-80-FR-LV-GRID-(xxx)-10V

SELECT ONE SELECT ONE SELECT ONE FR LV Series-Compliance-Model-Frame Color Temp⁴ Lens Voltage 3510 2x2 80 LV 3500K (Standard) 120-277V Frosted Lens, Wide Distribution HT10S-A1-12K-22 HT10S-A1-12K-24 40 HV 12K lumens 12K lumens Other CRI 4000K 347-480V available upon 50 request⁷ HT10S-A1-18K-22 HT10S-A1-18K-24 5000K 18K lumens 18K lumens Other CCT HT10S-A1-24K-24 available upon 24K lumens request

SELECT ONE IF APPLICABLE, IF NONE, LEAVE BLANK, MOVE TO OPTION

SELECT AS MANY AS APPLICABLE, SEPARATE EACH WITH "-". IF NONE, LEAVE BLANK, MOVE TO DIMMING

GRID				10V
Mounting	·	ncy Sensors – ensor (Standard)	Option 4	Dimming
GRID ⁵ Standard mounting for grid cellings. Safety and Cable mounting optional, see Accessories.	OCC8 ^{4,11,12} WattStopper Occ Sensor, on/off, with photocell, 8' mounting height OCCDIM8 ^{4,6,11,12} Programmable WattStopper Occ Sensor, dimmable, with photocell, 8' mounting height MOCCDIM8 ^{4,11,12} WattStopper OCC Sensor, manual set and photocell, dimmable, 8' mounting height OCC20 ^{4,11,12} WattStopper Occ Sensor, on/off, with photocell, 20' mounting height TOCC20 ^{4,11,12} IR-TEC OCC Sensor, on/off, w/ photocell, 20' mounting height OCCDIM20 ^{4,6,11,12} Programmable WattStopper Occ Sensor, dimmable, with photocell, 20' mounting height	MOCCDIM20 ^{4,11,12} WattStopper Occ Sensor, manual set and photocell, dimmable, 20' mounting height OCC40 ^{4,11,12} WattStopper OCC Sensor, on/off, w/ photocell, 40' mounting height TOCC40 ^{4,11,12} IR-TEC OCC Sensor, on/off, w/ photocell, 40' mounting height OCCDIM40 ^{4,11,12} WattStopper OCC Sensor, dimmable, w/ photocell, 40' mounting height MOCCDIM40 ^{4,11,12} WattStopper OCC Sensor, manual set and photocell, dimmable, 40' mounting height	EMB ^{1,4,7} Battery Back-Up for emergency lighting CTRL ^{4,7,9} Fixture installed EnOcean Control Module SRG ⁴ Fixture Installed Surge Protector CTRLR ^{4,7,8} Control Ready Harness QDC ⁴ Driver Quick Disconnect	10V 0-10V Interface (Standard)

When submitting for utility incentives and rebates, please use catalog numbers

When ordering OPTIONS, separate each option with a "-". Catalog number always ends with dimming selection "10V"

End Notes

- 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+.
- 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.
- 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. Consult factory for orders requiring EMB, CTRL and CTRLR.

- 8. CTRLR includes 5 wires, capped off inside of fixture for use with field installed controls.
- CTRL additional accessories required for full functionality. See ACCESSORIES for available add-on options.
- 10. 3500 CCT not DLC qualified
- 11. Settings for Sensors from Factory— OCC (LV and HV)—If no movement for 15 mins, OFF TOCC—If no movement for 10 mins, OFF OCCDIM—If no movement for 5 mins, dim to 10%, if no movement for 60 mins, OFF MOCCDIM—If no movement for 15 mins, dim to 10%, if no movement for ~8 mins, OFF. The photocell is disabled from the factory.
- 2. Only OCCDIM8, OCCDIM20 and OCCDIM40 are available with HV option.

Accessories

Must be ordered separately. Packaged separately.

Туре	Part Number	Description				
Safety Kit	SAFETYCABLE	Kit includes (one) 5 ft. aircraft cable with single snap hook, L-bracket, screw and nut. For use with all mounting options.				
Cable Kit	CABLEKIT	Kit includes (two) 10 ft. aircraft "Y" cables and snap hooks (one pair).				
Drywall Kit 2x2	DK22	Drywall trim kit for 2x2 troffers.				
Drywall Kit 2x4	DK24	Drywall trim kit for 2x4 troffers.				
Wireless Programmer for Dimmable Occupancy Sensor(s)	OCCDIMPROG	Hand held wireless programmer for setup OCCDIMXX dimmable occupancy sensors. Required with OCCDIMX selection.				
	EnOcean Controls					
Single Rocker	ENSR	EnOcean Control Single Rocker				
Double Rocker	ENDR	EnOcean Control Double Rocker				
Wall Occupancy Sensor	ENWLOCC	EnOcean Control Wall OCC				
Ceiling Occupancy Sensor	ENCLOCC	EnOcean Control Ceiling OCC				
Ceiling Daylight Sensor	ENDAY	EnOcean Control Daylight Sensor				
Software	ENSFT	EnOcean Control Navigan Commissioning Software				

Ambient Range Operation¹

-40°C to 45°C (-40°F to 113°F)

Luminaire Ambient Temperature Factor (LATF)

Ambient Temp.	35°C	40°C	45°C
Multiplier	0.99	0.98	0.98

Listings & Certifications

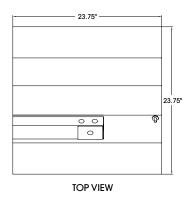
- ETL listed (UL 1598)
- RoHS Compliant
- DLC Premium (pending)
- CSA.22.2
- EMI: Title 47 CFR 15 Class A, ICES-005:2009
- LM-79, LM 80 and TM-21 tests and reports are performed in accordance to IESNA standards, per TM-21

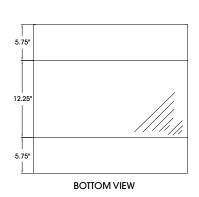
Dimensions & Drawings³

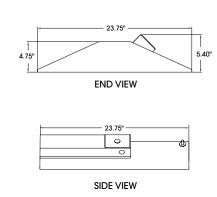
Model	Length (in)	Width (in)	Depth (in)	Weight (lb)
2 x 2	23.75	23.75	5.4	11.4
2 x 4	47.75	23.75	5.4	17.6

Weights are approximate and vary by model. If weight is a concern, please contact factory.

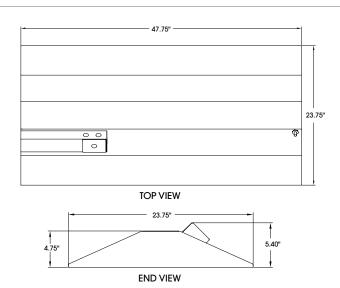
2X2

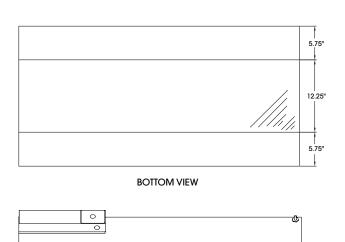






2X4





SIDE VIEW



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All specifications subject to change without notice. Please see www.flexlightingsolutions.com for latest information. All values are typical or design values and series averages. Actual performance may differ as a result of end-user environments and applications. Consult Flex Lighting Solutions with specific inquiries. Copyright © 2018, Flex. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Flex.