

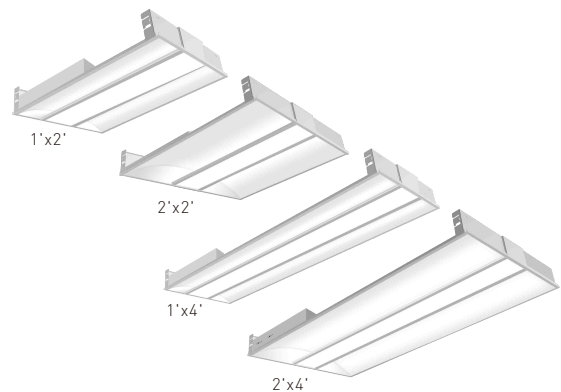


TRFA-O

Floating Air Indirect LED Troffer



The indirect LED troffer offers a traditional modern design with the latest lighting technology. Transparent optics engineered specifically for LED sources are integrated with minimalist design and architectural materials to create a broad range of solutions with superior optical and energy performance. High performing optics allows for maximum energy savings and optimal illumination in a ultra-minimalistic shallow recessed fixture, provides a unique translucent appearance without sacrificing performance. It is architectural recessed lighting solution that compatible for commercial and institutional environments, including office building, medical, health, educational, retail, hotel, airport, hospitality, etc.



Feature

- UL, cUL Listed, DLC Qualification, Damp Rated
- Available in 1x2ft, 1x4ft, 2x2ft and 2x4ft sizes
- Transparent optics
- 0-10V dimming, dim to 10% or 1% options
- Wattage selectable, up to 120lm/w
- CCT adjustable from 3000K, 3500K and 4000K, 90+ CRI
- Recessed form factor fits most T-grid ceiling systems



*Design Lights Consortium Qualified and classified for DLC standard / premium, refer to www.designlights.org for details.

PERFORMANCE

Model NO.	Dimension	Wattage Selectable	Lumen @4000K	Efficacy@4000K	CCT Adjustable
TRFA-O	1'x2'	20W/15W/10W	Up to 2400lm	Up to 120lm/w	3000K/3500K/4000K
TRFA-O	1'x4'	40W/30W/20W	Up to 4800lm	DLC Standard Up to 120lm/w	
TRFA-O	2'x2'	40W/30W/20W	Up to 4800lm		
TRFA-O	2'x4'	50W/40W/30W	Up to 6000lm		

Lumen output may vary by ±5% based on different CCT and wattage settings. Actual wattage may also vary by ±5%.



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PRODUCT ORDERING GUIDE

Example: TRFA-O-22-DM-04W

Default Settings: Highest Wattage, 3500K

TRFA-O		DM	04	W
Product Series	Size	0-10V Dim	CCT	Wattage
TRFA-O Floating Air LED Troffer	12 1'X2', Up to 2400lm, 80+CRI Only Wattage Selectable (20W, 15W, 10W) 14 1'X4', Up to 4800lm Wattage Selectable (40W, 30W, 20W) 22 2'X2', Up to 4800lm Wattage Selectable (40W, 30W, 20W) 24 2'X4', Up to 6000lm Wattage Selectable (50W, 40W, 30W)	DM 110-277V AC Dims to 10% or 1%	04 CCT Adjustable 3000K, 3500K, 4000K	W Wattage Selectable

OPTIONAL ORDERING GUIDE

Optional 0-10V Dimming	Optional Emergency	Optional Sensor (See Page 3 For More)	
D10 110-277V AC, Dims to 10% (Standard) Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL.	EMI-8W Built-in 8w LED emergency driver and indicator before delivery.	Dimming Only OCC-DM-RFM Make to order OCC-DM-RSM OCC-DM-AFM Make to order OCC-DM-ASM OCC-DM-KFM Make to order OCC-DM-KSM	Dimming and Tunable White OCC-DT-RFM Make to order OCC-DT-RSM OCC-DT-AFM Make to order OCC-DT-ASM OCC-DT-KFM Make to order OCC-DT-KSM
D01 110-277V AC, Dim to 1%	EME-16W External 16W Emergency (Field-installed) EME-25W External 25W Emergency (Field-installed)		

PRODUCT PERFORMANCE

Optics

It offers unique transparent optics to enhance the fixture aesthetic. fully- uniform transparent optics provide uniform, illumination for a clean, modern, upgraded look, creating direct and indirect light distribution.



Construction

Extruded aluminum housing.

Finish

Powder coat white finish provides uniform finish providing long term performance and superior aesthetic.

Electrical

LED Driver	It is powered by Class 2 high efficiency LED driver, with a standard 0-10V dimming which continuous dims to 10% that works with many types of controls. Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL. Dim to 1% is available.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic drivers are cULus recognized and available for 110-277V.

LED System

CRI	Minimum 90 color rendering index
CCT	CCT adjustable from 3000K, 3500K and 4000K with a great color consistency
LED	Life Minimum 50,000h with 87.8% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Damp rated in operating ambient temperatures of -20°C~40°C.

T-grids Ceiling Compatibility

It is architectural recessed lighting solution that compatible with most 15/16" and 9/16" t-grid systems for commercial and institutional environment.

Approvals

- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- DesignLights Consortium Qualified and classified for DLC Standard, refer to www.designlights.org for details
- 5-year Limited Warranty

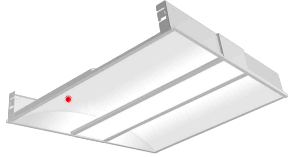


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OPTIONAL EMERGENCY

► Emergency Options

Location	Wiring Type	Emergency Options	
EMI Built-in EM	DC Wiring	 ☐ EM-S0854-RBN Built-in 8w LED emergency driver and indicator before delivery. 90+ minutes runtime during outages	
EME External Wiring in Field	AC Wiring	 ☐ EM-H16170-RBF ☐ EM-H25170-RBF Emergency - External External 16w or 25w LED emergency driver with standard indicator available and need field-installed. 90+ minutes runtime during outages.	

For more info or spec sheet please visit <https://paraflexltg.com> or contact sales.

OPTIONAL SENSOR

► Integral Sensor Options

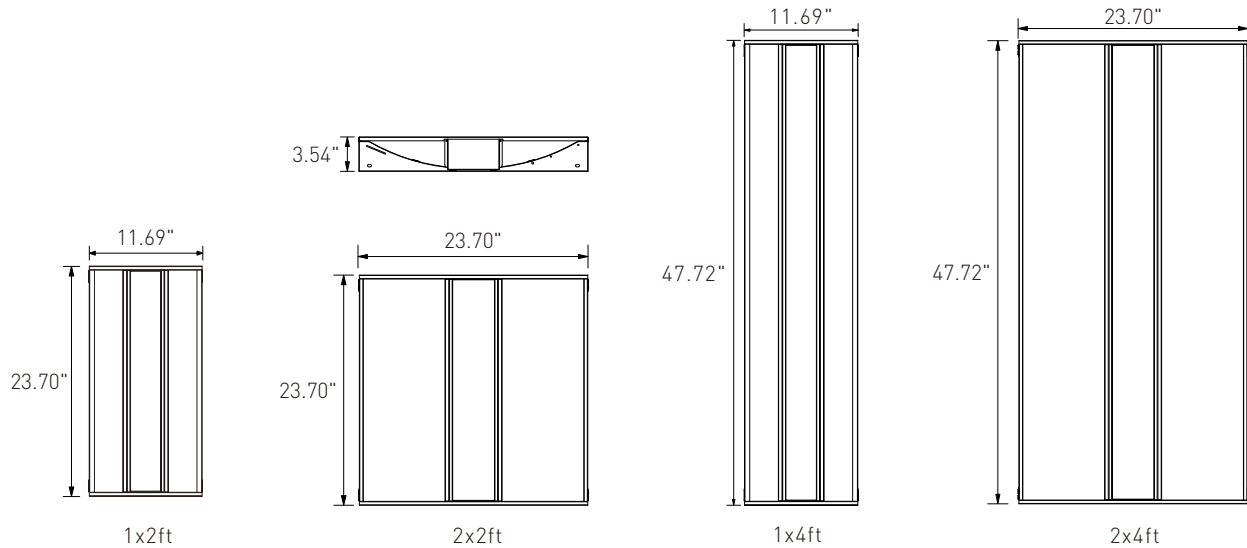
Function	Sensor Brand	Sensor Options		
Dimming Only	 LUTRON Athena Controller Control	 A-WN-D01-RF-WH Athena wireless node (RF only)	☐ OCC-DM-RFM Front-mounted Sensor ☐ OCC-DM-RSM Side-mounted Sensor	Make to order
		 A-WN-D01-OCC-WH Athena wireless node with sensor	☐ OCC-DM-AFM Front-mounted Sensor ☐ OCC-DM-ASM Side-mounted Sensor	Make to order
	Keiton  IFS105SE.B2 (App)  Integrated Round 12V Sensor Dual 0-10V, with 4-pin Socket		☐ OCC-DM-KFM Front-mounted Sensor ☐ OCC-DM-KSM Side-mounted Sensor	Make to order
Dimming and Tunable White (3000K-4000K)	 LUTRON Athena Controller Control	 A-WN-D01-RF-WH Athena wireless node (RF only)	☐ OCC-DT-RFM Front-mounted Sensor ☐ OCC-DT-RSM Side-mounted Sensor	Make to order
		 A-WN-D01-OCC-WH Athena wireless node with sensor	☐ OCC-DT-AFM Front-mounted Sensor ☐ OCC-DT-ASM Side-mounted Sensor	Make to order
	Keiton  IFS105SE.B2 (App)  Integrated Round 12V Sensor Dual 0-10V, with 4-pin Socket		☐ OCC-DT-KFM Front-mounted Sensor ☐ OCC-DT-KSM Side-mounted Sensor	Make to order



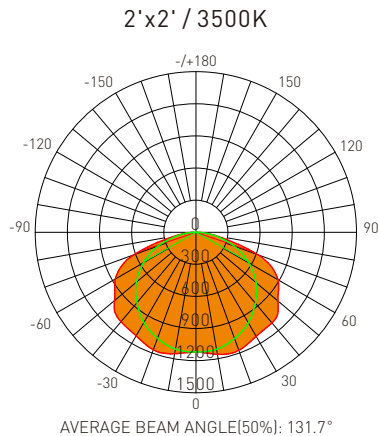
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DIMENSION



DISTRIBUTION DIAGRAM



Lumens: 4551.75 Lm
Watts: 37.54 W
LPW: 121.25 Lm/W
CCT: 3500K

UNIT: cd
— C0/180, 142.4
— C90/270, 120.9

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	1157	1135	1109	1132	1152
20	1173	1137	1056	1130	1168
30	1124	1084	977.9	1075	1118
40	1105	998.6	863.3	985.1	1090
50	999.8	923.2	733.5	902.0	992.9
60	883.4	772.7	570.2	758.8	868.6
70	615.3	567.1	381.9	552.9	618.6
80	191.9	213.5	168.0	217.0	190.9
90	1.700	1.859	1.366	1.957	2.187
100	2.024	1.918	1.081	1.844	1.101
110	3.018	2.687	1.908	2.654	1.854
120	3.523	2.799	2.082	2.732	1.920
130	3.279	2.414	2.692	2.378	1.938
140	2.295	1.607	2.463	1.499	1.956
150	2.206	0.8639	2.039	0.9721	1.678
160	1.662	0.8615	2.106	1.014	1.721
170	1.850	1.026	2.062	1.154	1.711
180	1.683	1.091	2.463	1.269	1.680
DEG	LUMINOUS INTENSITY: cd				

Zonal Lumens

T	Φ total
0-10	107.6
10-20	428.0
20-30	935.2
30-40	1579
40-50	2310
50-60	3044
60-70	3686
70-80	4070
80-90	4164
90-100	4166
100-110	4168
110-120	4170
120-130	4172
130-140	4174
140-150	4175
150-160	4176
160-170	4176
170-180	4176
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	10615	8417
80	11061	9663
75	14172	10589
70	18004	11156
65	18637	11393
60	17682	11393
55	16434	11394
50	15566	11400
45	15284	11333

Disclaimer:

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