



TF SERIES

LED TROFFER

INTRODUCTION

The FGE-TF Series LED Troffer is engineered to provide efficient, comfortable, and uniform lighting for offices, schools, hospitals, and commercial interiors. Featuring high-efficacy LED chips and an optical diffuser with microprismatic design, it achieves up to 130 lm/W or 140 lm/W, ensuring soft, glare-free illumination that enhances visual comfort and productivity.

Its modern slim-profile housing fits seamlessly into standard T-grid ceilings, making installation quick and maintenance easy. The durable steel or aluminum construction offers excellent heat dissipation and long-term reliability.

The TF Series supports DALI / 0-10V dimming, motion sensor, and emergency backup options, enabling intelligent and energy-efficient operation. With a 100,000-hour lifetime and 5-year warranty, the TF LED Troffer provides a reliable, low-maintenance lighting solution tailored for modern professional environments.



FEATURES



Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



Motion Sensor Option: Provides smart lighting control to improve energy efficiency and convenience.



5 CCTS Tunable: Adjustable color temperature to suit diverse environments.



90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.



High Efficacy & Energy Saving: Up to 130 lm/W or 140 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Reliable Warranty: 5 Years Warranty.



Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.

- Advanced Optical Design:

High-transmittance PC lens with 120° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IP20 dustproof, IK04 impact resistance for commercial lighting places.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

APPLICATIONS



Offices & Corporate Spaces: Uniform, flicker-free lighting reduces eye fatigue during long work hours, boosting employee productivity. Slim profile fits seamlessly into suspended ceilings or recessed installations, maintaining a clean, modern aesthetic.



Educational Institutions (Schools, Universities, Libraries): Uniform illuminance meets educational lighting standards, supporting effective teaching and learning. Flicker-free light design protects students' and teachers' eyes during extended use.

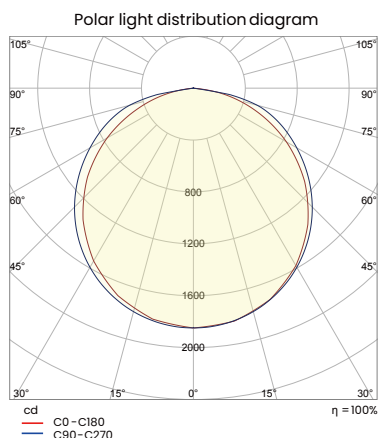


Retail Stores & Shopping Malls: High CRI accurately renders product colors, attracting customers and boosting sales. Even light distribution eliminates shadows, ensuring products are showcased clearly from all angles.

TECHNICAL PARAMETERS

Product Model	TF22-40W	TF24-50W
Electrical Performance		
Wattage Selectable	40W/35W/30W/25W/20W	50W/40W/30W/25W/20W
Input Voltage	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9
Surge Protection	1KV	1KV
THD	<20%	<20%
Optical Performance		
Luminous Efficacy	130lm/W 140lm/W	130lm/W 140lm/W
Luminous Flux	5200lm/4550lm/3900lm/3250lm/2600lm 5600lm/4900lm/4200lm/3500lm/2800lm	6500lm/5200lm/3900lm/3250lm/2600lm 7000lm/5600lm/4200lm/3500lm/2800lm
CCT Selectable	3500K/4000K/5000K/5700K/6500K	3500K/4000K/5000K/5700K/6500K
CRI	Ra>80	Ra>80
Beam Angle	120°	120°
Unified Glare Rating (UGR)	<19	<19
Reliability		
Lifetime	>100,000h	>100,000h
Operating Temperature	-20 ~ +40°C	-20 ~ +40°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP20	IP20
Impact Resistance	IK04	IK04
Control		
Dimming	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor
Communication Protocol	-	-
Emergency Kit	-	-
Mechanical		
Housing Material	Metal Sheet	Metal Sheet
Lens Material	PMMA	PMMA
Coating	White/RAL9003	White/RAL9003
Net Weight	2.7kg	4.9kg
Dimensions	603x603x52.83mm	1213x603x52.83mm
Warranty	5 Years	5 Years

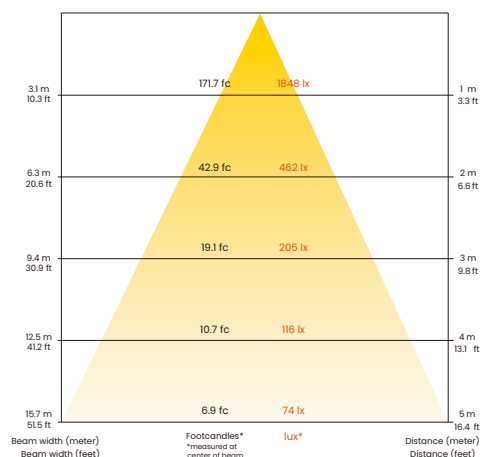
PHOTOMETRICS



120°

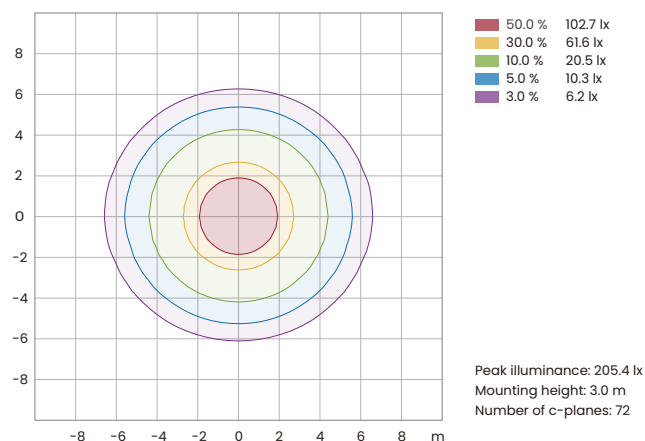
ILLUMINANCE DISTRIBUTION

Illuminance at A Distance



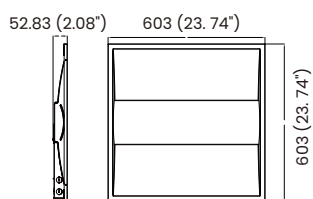
120°

Iso-illuminance Diagram (Iso-lux)

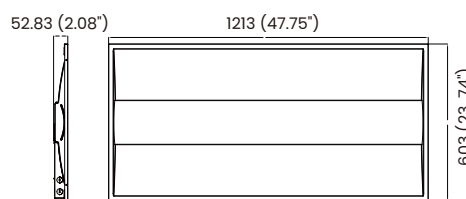


120°

MECHANICAL DIMENSIONS



40W/35W/30W/25W/20W



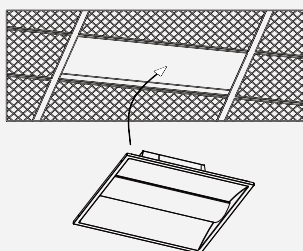
50W/40W/30W/25W/20W

Product Model	TF22-40W	TF24-50W
Wattage Selectable	40W/35W/30W/25W/20W	50W/40W/30W/25W/20W
Outer box (L*W*H)	648x140x653mm (25.51"x 5.51"x 25.71")	1257x140x653mm (49.49"x 5.51"x 25.71")
Q'ty/Ctn	2pcs	2pcs
N.W./Ctn	5.4kg/11.9lbs	9.8kg/21.6lbs
G.W./Ctn	6.6g/14.55lbs	11.7kg/25.79lbs
Remarks	-	-

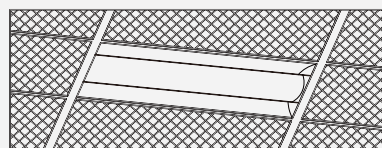
INSTALLATION

Recessed Installation

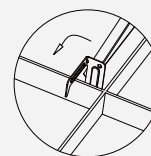
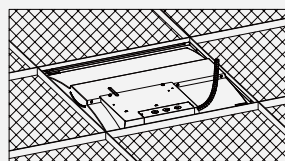
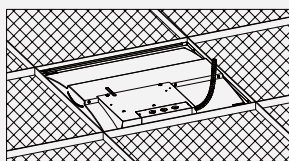
1. Replace existing lighting fixture from ceiling with LED Troffer.



2. Replace existing lighting fixture from ceiling with LED Troffer.

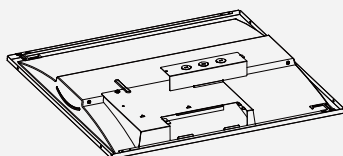


3. Use the protective brackets for the sake of safety.

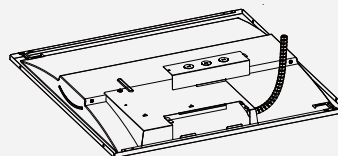


Installation Instruction

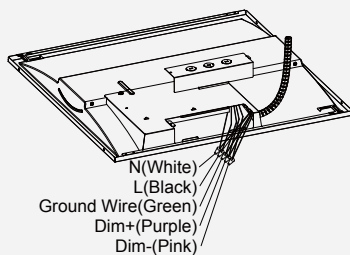
1. Unscrew the driver cover.



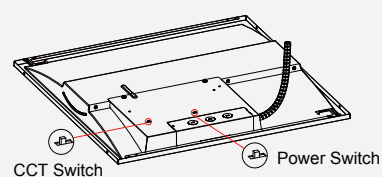
2. Connect the conduit to the driver box.



3. Connect other wires separately.



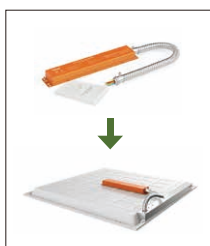
4. Put back the driver cover and fix it by screw.



ACCESSORIES



Motion Sensor



90 Minutes
EM Back-up

ORDER INFORMATION

TF-YY-YY-YY-Y

1 2 3 4 5 6 7 8

1 TF Series LED Troffer

2 Size

22	2x2
24	2x4

3 Wattage

40W	40W/35W/30W/25W/20W
50W	50W/40W/30W/25W/20W

4 Color Temperature

50K	6500K/5700K/5000K /4000K/3500K Selectable (Default: 5000K)
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5 Voltage

(Blank)	120-277V
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6 EM Back-up

(Blank)	Without EM Back-up
EM	With EM Back-up

7 Optics

(Blank)	120°
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8 Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module



WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT