PacLights

PROJECT:	TYPE:
PREPARED BY:	DATE:

- Ultra Slim Design
- High Performance LEDs
- Premium Direct/Indirect Lights
- Multiple Mounting Options
- Sensors for Maximum Energy Saving
- Emergency Kit Available

FTF Series LED Volumetric Premium Troffer

Technical Specifications

Warranty:
PacLights warrants these LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. Please refer to our full warranty.

Qualifications

ETL Listing:
ETL LISTED, CONFORMS TO UL STD 1598; CERTIFIED TO CSA STD C22.2 No.250.0
IESNA LM-79 & LM-80 Testing:
PacLights LED luminaries have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.
**1 DLC Qualification:*
Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.

LED Characteristics

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.
LEDs:
Multi-chip, high-output, long-life LEDs
Color Temp:
3000k (Warmwhite), 3500k, 4000k(Neutralwhite), 5000k(Daylight)
Color Stability:
LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.
Color Uniformity:
PacLights' range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.
Color Rendering Index:
>80

Construction

Ambient Temperature:
Suitable for use in 45°C (113°F) ambient temperatures.
Cold Weather Starting:
The minimum starting temperature is -40°F/-40°C.
Housing:
Durable cold rolled steel housing provides strength and uniformity.
Luminaire is pre-painted for enhanced smooth finish.
Mounting:
T- bar ceiling mounting.(t-bar clips included)
Or, suspended mounting by supporting wires (optional, wiring not included)
Or, surface mounting. (optional, requires surface mount kit)
Lens:
Polycarbonate.
Finish:
Our environmentally friendly powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.
Green Technology:
Mercury and UV free, and RoHS compliant. Powder coat finish formulated without the use of VOC or toxic heavy metals.

Electrical

Drivers:
1-10v Dimmable. Power Factor >95%. 100-277V, 50-60Hz
THD:
<15%
Optional Sensors:
Passive Infrared (PIR) Occupancy, Daylight Harvesting, Microwave Occupancy
Emergency Kit:
Optional, up to 90 minutes.

Models

Model	Watts(W)	Form Factor(Ft)	Lumens(LM) at 5000k
FTF14D25	25	1x4	3,500
FTF14D40	40		5,000
FTF22D25	25	2x2	3,500
FTF22D40	40		5,000
FTF24D35	35	2x4	4,700
FTF24D50	50		6,100

Optional Add-ons

SKU	Description
ACTFSM1	Surface mount kit for 1x4 troffer
ACTFSM2	Surface mount kit for 2x2 troffer
ACTFSM4	Surface mount kit for 2x4 troffer
ACTFPS	External - Photocell/Daylight harvesting sensor, 1-10Vdc Dim down/up according to ambient brightness level, target light level adjustable. (one sensor may support up to 8 fixtures in a 60ft wired range) May be used with ACTFMM for maximum energy savings.
ACTFMM	External - Microwave occupancy sensor, 120-277v, programmable 3-step dimming. (one sensor may support up to 4 fixtures) May be used with ACTFPS for maximum energy savings.
ACTFMO	Integrated Passive infrared (PIR) occupancy sensor, automatic on/off, 25 sec delay. (factory installed, one per fixture)
ACTFEK	Emergency Kit, input 100-277vAC, output 10-60vDC, 4w. LiFePO4 battery 6.4V 1.5Ah, up to 90 minutes. (factory installed, one per fixture)

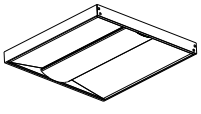
Ordering Information

FTF24D50 - 50 - PS+MM

Model

Color Temperature
30 = 3000k (Warm white)
35 = 3500k
40 = 4000k (Neutral white)
50 = 5000k (Daylight)

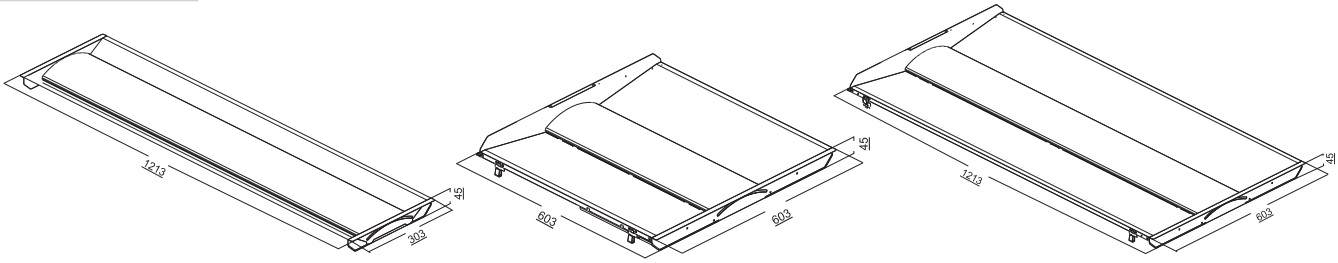
Optional Add-ons
if 2 or more are chosen, add "+" in between. See Optional Add-ons table for detail
SM = ACTFSM1/2/4
EK = ACTFEK
PS = ACTFPS
MM = ACTFMM
MO = ACTFMO



ACTFSM1/2/4
Optional surface mount kit is designed to convert FTF Series troffers into surface mount or suspended luminaires. It features a powder-coated white finish to complement a variety of interior designs.

www.paclights.com/product-tag/FTF
visit our website for more information

Dimensions



Passive Infrared(PIR) Motion Detection (Optional - Integrated)

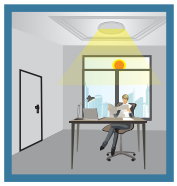
PIR sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a self-contained relay switches on the connected lighting load. The sensor is powered by the LED driver. An internal timer, factory set at 25 seconds, keeps the lights on during brief periods of inactivity.

Daylight Harvesting (Optional - External)

Faced with the skyrocketing cost of energy and environmental concerns, builders, architects and lighting experts are increasingly turning to daylighting as a primary source of illumination, and proper daylight can increase the comfort. To take full advantage of daylight integration, buildings should have automated controls that either turn off or dim artificial light in response to the available daylight with in a space. This is called 'daylight harvesting'.

This sesnsor supplies a simple and effective solution for daylight harvesting. By connecting to 1-10V interface, it uses a photocell to measure ambient lux level and automatically calculates how much artificial light is needed, which then converts the amount of light to 1-10V dimmable LED drivers. 1-10v dimmable drivers adjust the lighting output according to the signal from the daylight sensor.

The fixture will display 100% illumination or dim to maintain the preset illumination level against ambient light.



The fixture dims to minimum light level but will never turn off even with sufficient ambient light.

Users can still switch off the light manually.

Microwave Occupancy Detection (Optional - External)

This sensor is an innovative and programable motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. The sensors allow energy savings without compromising comfort. With its signature 3-step dimming function, it is perfect for use in areas that require a light change notice before totally switching off the light. Daylight (on/off) sensor is integrated for maximum energy saving.

3-step Dimming

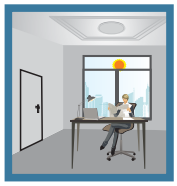
With sufficient ambient light, the sensor will not turn on the lighting fixture. → With insufficient ambient light, the sensor will turn on the lighting fixture when motion is detected. → After hold time, the sensor dims the fixture to a low light level if no new motion triggers. → After stand-by period, the sensor turns off the fixture if no motion is detected in its detection zone.

Hold Time adjustable: 5s / 30s / 90s / 3min / 20min / 30min
Daylight (ambient light threshold) adjustable: 50lux / 100lux / 200lux / Disable
Stand-by period adjustable: 5s / 5min / 10min / 30min / 1h / forever
Stand-by dimming level adjustable: 10% / 20% / 30% / 50%

Microwave/Daylight Harvesting sensor can be installed to most 6" inch Recessed Can Housing as an external device to control multiple troffer fixtures.

Microwave Occupancy Detection with Daylight Harvesting (Optional - External)

When a microwave sensor works together with the daylight harvesting sensor, the lighting fixture will dim the light in response to the available daylight in the area when the area is being occupied.



The fixture will be switched off with sufficient ambient light, even when the area is being occupied.

When the area is not being occupied, after hold time with no new motion triggers, the sensor will dim the fixture to a low light level. And after stand-by period, if no motion is detected, the sensor will turn off the fixture.