Part Number:

Type:

# FLTR FLAT LENS TROFFER RETROFIT KIT



### **FEATURES**

- Architectural Designed Flat Lensed Troffer
- One-piece Unit with Two Universal Mounting Brackets
- Average Install Time Less than 3 Minutes
- Lightweight Aluminum Matte White Finish Body
- Impact & Scratch Resistant PMMA Frosted Acrylic Lens
- Tamper Resistant Latch Option
- Advanced Wireless Controls Options
- 1x4, 2x2, 2x4 sizes
- 2,300 4,800 Delivered Lumens
- 3000K-4000K CCT
- >80 Color Rendering Index (CRI)
- Calculated L70 >100,000 hrs
- 0-10V Dimmable Driver
- 120–277V Universal Voltage
- 5 Year Warranty
- ETL Listed for Damp Locations



### SUITABLE APPLICATIONS

Education
 Healthcare
 Multipurpose Rooms
 Hallways
 Office
 Conference Rooms

### **ORDERING GUIDE:**

SR    Sensor Ready Module    VD03    Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      DR    DALI Ready Module    VRF3    Lutron Vive DFCSJ-OEM-RF (RF Only)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF3    Lutron Vive DFCSJ-OEM-RF (RF Only)      EM5    SW LED Factory Installed Battery Backup    CEC Title 20 Compliant    VEC      EM7/HE    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC      EM7/HE    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      EM10    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      EM10/HE    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St010    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St011    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St012    12W LED Factory Installed Battery Backup    VEC    VEC    VEC    VEC    VEC    VEC      St012    12W LED Factory Installed							
SPLTR2  30WLED  35  TRL  Tamper Resistant Latch    45WLED  30  TRL  Tamper Resistant Latch    30WLED  30WLED  30WLED    30WLED  30WLED  30WLED    45WLED  30WLED  30WLED    45WLED  45WLED  50WLED    FLTR2  2x4 Flat Lens Troffer Retrofit Kit  26WLED    58WLED  58WLED  58WLED    FLTR2  58WLED  58WLED    7007  FACTOY Installed  58WLED    7007  FACTOY Installed SULED  Advanced    7007  Sensor Ready Module  58MC2  EasySense Sensor    7008  OALI Ready Module  VDO <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    7010  OAL Ready Module  VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    7011  OAL Ready Module  VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    8010  SW LED Factory Installed Battery Backup  VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    8011  SW LED Factory Installed Battery Backup  VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    8011  SW LED Factory Installed Battery Backup  VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)    8011  SW LED Factory Installed Battery Backup  VRF <sup>3</sup> Lutron Vive		SERIES	WATTS	DRIVER	ССТ	DO	ORFRAME LATCH
45WLED    30      FLTR22    2x2 Flat Lens Troffer Retrofit Kit    19WLED 30WLED 45WLED      242    2x4 Flat Lens Troffer Retrofit Kit    26WLED 30WLED 45WLED      250    26WLED 35WLED      250    26WLED      250347    26WLED      250347    347V Step Down Transformer      250348    36V Step Down Transformer      250347    347V Step Down Transformer	FLTR14 1x4	Flat Lens Troffer Retrofit Kit	19WLED	<b>UNIV</b> 120-277V	40	BLANK	Standard Latch
FLTR22    2x2 Flat Lens Troffer Retroft Kit    19WLED      30WLED    45WLED      FLTR24    2x4 Flat Lens Troffer Retroft Kit    26WLED      35WLED    35WLED      45WLED    35WLED      45WLED    35WLED      45WLED    35WLED      5WLED    45WLED      5WLED    Advanced      POSTP    Post Painted Aluminum      FR    Sensor Ready Module    VDO <sup>3</sup> Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      PR    DALI Ready Module (2 hot leads)    VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF <sup>3</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)      BLM    SW LED Factory Installed Battery Backup    CONTROL SOUTH-RF (RF Only)    VIED Factory Installed Battery Backup-CEC Title 20 Compliant      EM7/HE    SW LED Factory Installed Battery Backup-CEC Title 20 Compliant    SW LED Factory Installed Battery Backup    SW LED Factory Installed Battery Backup      EM10/HE    10W LED			30WLED		35	TRL	Tamper Resistant Latch
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OPTIONS    CONTROLS OPTIONS      Factory Installed    Advanced      POSTP    Post Painted Aluminum    ESMC2    EasySense Sensor      SR    Sensor Ready Module    VDO3    Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      DR    DALI Ready Module    VDO3    Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      DR    DALI Ready Module (2 hot leads)    VRF3    Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF3    Lutron Vive DFCSJ-OEM-RF (RF Only)      SEM5    SW LED Factory Installed Battery Backup-CEC Title 20 Compliant    VER3    Lutron Vive DFCSJ-OEM-RF (RF Only)      EM5/HE    SW LED Factory Installed Battery Backup-CEC Title 20 Compliant    VER3    Lutron Vive DFCSJ-OEM-RF (RF Only)      EM7/TF    TW LED Factory Installed Battery Backup-CEC Title 20 Compliant    EM10    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM10/LED    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    EM12    12W LED Factory Installed Battery Backup      SD3471    347V Step Down Transformer    SD4801    480V Step Down Transformer    SD4801      Ship With Accessories    Ship With Accessories    Ship With Accessories							
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SR    Sensor Ready Module    VD03    Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)      DR    DALI Ready Module    VRF3    Lutron Vive DFCSJ-OEM-RF (RF Only)      BLD    Bi-Level Dimming Module (2 hot leads)    VRF3    Lutron Vive DFCSJ-OEM-RF (RF Only)      EM5    SW LED Factory Installed Battery Backup    CEC Title 20 Compliant    VEC      EM7/HE    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC      EM7/HE    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      EM10    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      EM10/HE    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St010    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St011    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant    VEC    VEC    VEC    VEC      St012    12W LED Factory Installed Battery Backup    VEC    VEC    VEC    VEC    VEC    VEC      St012    12W LED Factory Installed			nstalled				Advanced
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BLD    Bi-Level Dimming Module (2 hot leads)      EM5    5W LED Factory Installed Battery Backup      EM5/HE    5W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM7    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM7/HE    7W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM10    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM10/HE    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM10/HE    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM10/HE    10W LED Factory Installed Battery Backup-CEC Title 20 Compliant      EM12    12W LED Factory Installed Battery Backup      SD3471    347V Step Down Transformer      SD4801    480V Step Down Transformer      Ship With Accessories	SR	Sensor Ready Module			VD	<b>O</b> <sup>3</sup>	Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)
EM55W LED Factory Installed Battery BackupEM5/HE5W LED Factory Installed Battery Backup-CEC Title 20 CompliantEM77W LED Factory Installed Battery BackupEM7/HE7W LED Factory Installed Battery Backup-CEC Title 20 CompliantEM1010W LED Factory Installed Battery BackupEM10/HE10W LED Factory Installed Battery BackupEM1212W LED Factory Installed Battery BackupSD3471347V Step Down TransformerSD4801480V Step Down TransformerShip With Accessories	DR	DALI Ready Module			VR	F <sup>3</sup>	Lutron Vive DFCSJ-OEM-RF (RF Only)
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Ship With Accessories	SD3471	347V Step Down Transformer					
	SD480 <sup>1</sup> 480V Step Down Transformer						
ESMC/WWS/DR EasySense Dual Rocker Wireless Wall Switch		Ship With A	ccessories				
	ESMC/WWS/DR EasySense Dual Rocker Wireless Wall Switch						

<sup>1</sup>Does not qualify for DLC <sup>2</sup>Easily Controlled via Mobile Phone with Bluetooth App

# FLAT LENS TROFFER RETROFIT KIT

LED SYSTEMS INFO <sup>1</sup>	3000К		3500K		4000K			
Part Numbers	Lumens	LPW	Lumens	LPW	Lumens	LPW	Watts <sup>2</sup>	Replaces
FLTR14-19WLED-UNIV-XX	2,254	119	2,287	122	2,319	124	19W	2T8
FLTR14-30WLED-UNIV-XX	3,461	115	3,511	117	3,561	119	30W	2T8
FLTR14-45WLED-UNIV-XX	4,867	109	4,937	111	5,018	112	45W	2T8
FLTR22-19WLED-UNIV-XX	2,180	115	2,199	117	2,217	118	19W	2T8
FLTR22-30WLED-UNIV-XX	3,328	111	3,357	112	3,385	113	30W	3T8
FLTR22-45WLED-UNIV-XX	4,663	105	4,695	106	4,735	107	45W	3T8
FLTR24-26WLED-UNIV-XX	3,038	118	3,141	122	3,244	126	26W	2T8
FLTR24-35WLED-UNIV-XX	3,945	113	4,081	117	4,217	121	35W	3Т8
FLTR24-45WLED-UNIV-XX	4,794	108	4,956	111	4,972	110	45W	3Т8

<sup>2</sup>Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

### **SPECIFICATIONS**

#### CONSTRUCTION

Lightweight aluminum white body for rigidity, durability & ease of installation. One-piece unit with two universal mounting brackets for quick and easy installation into grid and hard-lid ceilings. Optional paint after fabrication. Designed to achieve maximum performance and improved aesthetics.

#### ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (1%-100%) with optional 347-480 Vac step down transformer. Optional emergency battery backups available to meet critical life safety lighting requirements.

#### MOUNTING

One-piece door frame light engine with two universal mounting brackets for easy installation. Tamper resistant latch option provides additional security in applications where it is needed most. See page 4 for step-by-step troffer kit installation instructions.

#### WARRANTY

5 Year Warranty (Terms and Conditions apply)

#### OPTICS

Impact and Scratch resistant PMMA frosted acrylic lens. Optimized optical design provides soothing illumination and glare reduction for maximum visual comfort.

#### TROFFER COMPATIBILITY

Designed to fit into most existing parabolic and lensed troffers with a housing depth of 3<sup>1</sup>/<sub>8</sub>" or greater. ILP recommends a test installation prior to ordering project quantities. Contact factory for additional troffer compatibility confirmation & custom size configuration options.

#### CONTROLS

Factory installed advanced sensor options available. Sensor mounts within the body of the fixture, see controls page for more detail (pg.3). Inquire with manufacturer for more controls options, including customer supplied items.

#### CERTIFICATIONS

ETL Listed to US & Canadian safety standards. Suitable for damp locations. Type IC rated. American Recovery & Reinvestment Act Funding Compliant. Title 24 Compliant with sensor options; see local ordinance for qualification information.

# FLTR FLAT LENS TROFFER RETROFIT KIT

## ADVANCED CONTROLS OPTIONS

### EASYSENSE

#### ESMC

EasySense combines occupancy sensing, daylight harvesting and institutional tuning in one compact solution. This is an ideal control for any Commercial application. Each device allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy gracy fading time, and occupancy time out/hold time. It can be easily controlled via the Phillips MasterConnect Bluetooth App on a mobile phone.



#### ESMC/WWS/DR

Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scences for full room control.

#### **Specifications:**

- Wireless
  ZigBee<sup>®</sup>
- Batteryless
  30–100ft Range
- Dual Rocker
- On (Hold to brighten up)
  Off (Hold to dim down)
  Scene 1
  Scene 2

**Functions:** 

#### LUTRON

#### VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.

#### VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



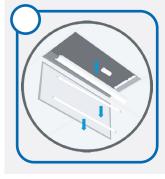
# FLAT LENS TROFFER RETROFIT KIT

# INSTALLATION INSTRUCTIONS



### STEP 1

Shut off or disconnect power to the fixture.



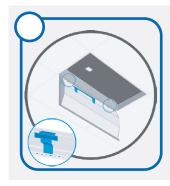
### STEP 2

Remove existing fluorescent lamps and components, then disconnect existing connections to the fluorescent ballast.



### STEP 3

Gently lift the original housing and insert the brackets between the housing and the T-grid. Allow the housing to rest on the brackets, securing them in place. Optional tether included on the mounting brackets to secure the kit to the housing.



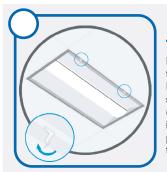
## STEP 4

Hang the FLTR body by hooking the T-hinges into the respective slots in the bracket.



### STEP 5

Connect the FLTR to AC power and ground.



## STEP 6

Rotate the FLTR body up into the fixture and close the latches. Fasten provided tamper proof screw into latch hole if TRL (Tamper Resistant Latch) option is ordered. Turn on or reconnect power to the fixture to complete the installation.

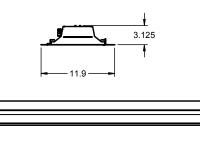
ILP recommends a test installation prior to ordering project quantities.

# FLTR FLAT LENS TROFFER RETROFIT KIT

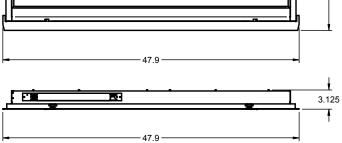
## LINE DRAWINGS

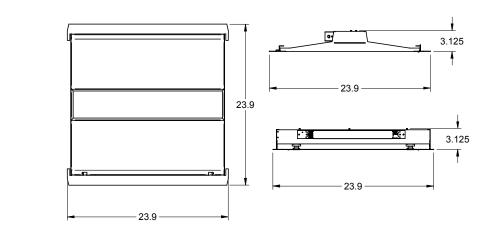
1x4 Dimensions

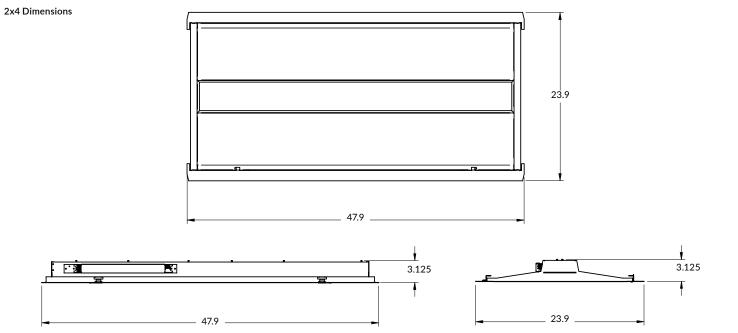
2x2 Dimensions



11.9







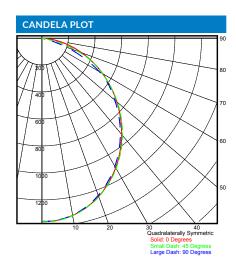
# FLAT LENS TROFFER RETROFIT KIT

# PHOTOMETRIC REPORTS

LUMINAIRE DATA				
Part Number	FLT14-30WLED-UNIV-40			
Description	1' x 4' Flat Lens Troffer Retrofit Kit with flat frosted acrylic lens, 3,500 lumens,			
Fixture Lumens (Im)	3,561 lm			
Wattage (W)	30 W			
Efficacy (Im/W)	119 lm/W			
Mounting	Recessed			
Spacing Criteria	0° = 1.22, 90° = 1.20			

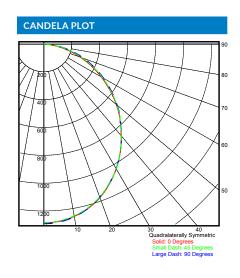
#### ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture		
0° - 40°	1,688	48%		
0° - 60°	2,903	83%		
0° - 90°	3,561	100%		
90° - 180°	0	0%		
0° - 180°	3,561	100%		



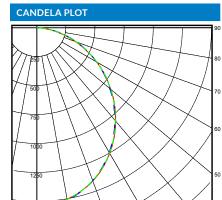
LUMINAIRE DATA					
Part Number	FLT22-30WLED-UNIV-40				
Description	2' x 2' Flat Lens Troffer Retrofit Kit with flat frosted acrylic lens, 3,400 lumens,				
Fixture Lumens (Im)	3,385 lm				
Wattage (W)	30 W				
Efficacy (lm/W)	119 lm/W				
Mounting	Recessed				
Spacing Criteria	0° = 1.20, 90° = 1.20				

ZONAL LUMEN SUMMARY				
Zone	Lumens (Im)	% Fixture		
0° - 40°	1,574	47%		
0° - 60°	2,698	81%		
0° - 90°	3,385	100%		
90° - 180°	0	0%		
0° - 180°	3,385	100%		



LUMINAIRE DATA		
Part Number	FLT24-35WLED-UNIV-40	
Description	2' x 4' Flat Lens Troffer Retrofit Kit with flat frosted acrylic lens, 4,200 lumens,	
Fixture Lumens (Im)	4,217 lm	
Wattage (W)	35 W	
Efficacy (Im/W)	120 lm/W	
Mounting	Recessed	
Spacing Criteria	0° = 1.21, 90° = 1.21	

ZONAL LUMEN SUMMARY					
Zone	Lumens (Im)	% Fixture			
0° - 40°	1,896	47%			
0° - 60°	3,263	80%			
0° - 90°	4,217	100%			
90° - 180°	0	0%			
0° - 180°	4,217	100%			



30 40 Quadralaterally Symmetric Solid: 0 Degrees Small Dash: 45 Degrees Large Dash: 90 Degrees