



# LED Volumetric Troffer Retrofit Kit

## Product Specifications



TCP's LED Volumetric Troffer Retrofit Kit offers a high-efficiency alternative to T5, T8, and T12 linear fluorescent systems. It provides long-life with consistent color and superior lumen maintenance. The rugged, cold-rolled steel housing is post-painted with a matte white finish. The acrylic diffuser provides a low-glare, wide-light distribution.

The LED Volumetric Troffer Retrofit Kit offers a cost-effective solution to maximize savings and take advantage of potential utility rebates without sacrificing performance.

### Reasons to choose the LED Volumetric Troffer Retrofit Kit from TCP

- Uses up to 61% less energy than fluorescent alternatives
- Long 50,000 hour rated life
- Excellent color consistency and CRI
- Mercury free
- Frosted acrylic diffuser
- Slim, low-profile design

### Ideal Applications

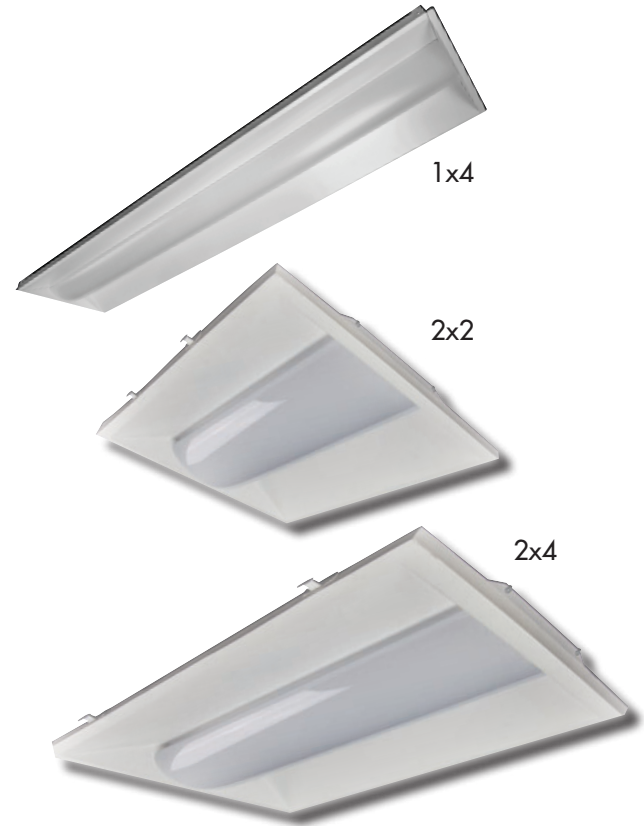
- Offices
- Retail Stores
- Schools
- Hospitality
- Restaurants
- Healthcare



# LED Volumetric Troffer Retrofit Kit

## Specifications

Input Line Voltage .....	120-277V
Input Line (Hz) .....	50/60Hz
Wattage (W)	
1x4	
SW2 .....	32W/26W/18W/15W
2x2	
SW2 .....	32W/26W/18W/15W
2x4	
SW3 .....	36W/26W/22W/18W
Lumens (L)	
1x4	
SW2 .....	4600L/3800L/2600L/2200L
2x2	
SW2 .....	4600L/3800L/2600L/2200L
2x4	
SW3 .....	5200L/3800L/3200L/2600L
Lumens per Watt (LPW) .....	>150LPW
Rated Life .....	50,000 hours
Minimum Starting Temperature .....	-20°C
Maximum Operating Temperature .....	40°C
CRI .....	>80
Power Factor .....	>90%
THD .....	<20%
Ratings .....	UL/cUL damp location rated
Controls .....	0-10V dimming (standard)



## Replacement Strategy

SYSTEM	BALLAST FACTOR	LUMENS	INPUT WATTS*	LED ENERGY SAVINGS
<b>TCP LED Volumetric Troffer - 2x2</b>	—	<b>4600</b>	<b>30</b>	—
2 Lamp 34W T12 U-Bend	0.88	4420	74	57%
2 Lamp 32W T8 U-Bend	0.88	4275	58	45%
2 Lamp 24W T5HO	1.0	3145	54	41%
<b>TCP LED Volumetric Troffer - 2x4</b>	—	<b>5200</b>	<b>34</b>	—
3 Lamp 32W T8 HBF	1.18	6960	93	61%
3 Lamp 32W T8 NBF	0.88	6681	89	60%
2 Lamp 32W T8 HBF	1.18	4658	65	45%
2 Lamp 28W T5	1.0	4675	63	43%
2 Lamp 32W T8 NBF	0.88	4468	59	39%

\*Actual wattage may differ by +/- 5%, when operating between 120-277V +/- 10%.

**NOTE:** Charts show system lumens (delivered lumens), NOT straight lamp lumen output. This is calculated as follows:  
**System lumens = mean lumens x # lamps x ballast factor x luminaire efficiency factor**



# 1x4 LED Volumetric Troffer Retrofit Kit

## Applications

The TCP LED Volumetric Troffer Retrofit Kit is a high-efficiency alternative to T5, T8, and T12 linear fluorescent troffers. Their intelligent high-performance LED light engines and drivers deliver long-life, consistent color, and superior lumen maintenance. Applications include offices, schools, retail and hospital locations.

## Construction

The TCP LED Volumetric Troffer Retrofit Kit is constructed of rugged cold-rolled steel, post painted with a matte white finish, and an acrylic diffuser.

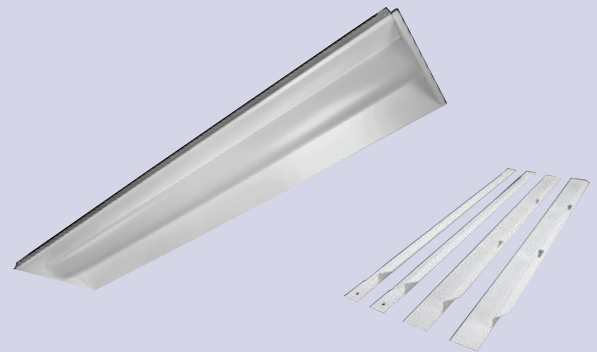
## Electrical

All electrical components are cUL listed. TCP high-efficiency drivers provide consistent power to ensure even lighting from the long-life LEDs. Each driver is wattage selectable and is paired with a high-quality LED light engine to deliver long-life and high-quality light. Full range 0-10V dimming is optional.

## Optics

The acrylic diffuser conceals the LEDs while providing a highly-diffused, low-glare light. The smooth white reflector integrates into the diffuser creating soft illumination while distributing the light evenly in a wide pattern.

Item Number	
Notes	Type



### Listings

UL/cUL Listed  
RoHS Compliant

### Lumen Maintenance

L90> 36,000 hours

### Warranty

Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix

Example: VRK1UZDSW2CCT

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE (LUMEN PACKAGE) <sup>1,2</sup>	COLOR TEMPERATURE	OPTIONS	CONTROLS
VRK = Volumetric Retrofit Kit	1 = 1' x 4'	U = 120V-277V	ZD = 0-10V Dimming	SW2 = 28W/20W/17W/14W Selectable (4200L/3000L/2500L/2000L)	CCT = 35K/40K/50K 5CCT = 30K/35K/40K/50K/65K	BLANK = None EB = Battery Backup	IS = Integrated Sensor NLS = Network Lighting Control KLS = Keilton Sensor

<sup>1</sup> Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.

<sup>2</sup> Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

For the most up-to-date specs and warranty information, please visit [www.tcpi.com](http://www.tcpi.com)



# 2x2 LED Volumetric Troffer Retrofit Kit

## Applications

The TCP LED Volumetric Troffer Retrofit Kit is a high-efficiency alternative to T5, T8, and T12 linear fluorescent troffers. Their intelligent high-performance LED light engines and drivers deliver long-life, consistent color, and superior lumen maintenance. Applications include offices, schools, retail and hospital locations.

## Construction

The TCP LED Volumetric Troffer Retrofit Kit is constructed of rugged cold-rolled steel, post painted with a matte white finish, and an acrylic diffuser.

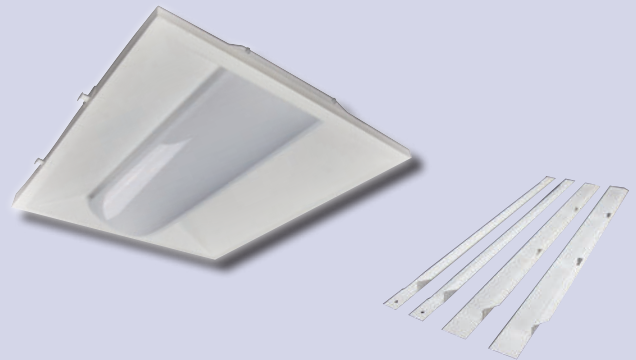
## Electrical

All electrical components are cULus listed. TCP high-efficiency drivers provide consistent power to ensure even lighting from the long-life LEDs. Each driver is wattage selectable and is paired with a high-quality LED light engine to deliver long-life and high-quality light. Full range 0-10V dimming is optional.

## Optics

The acrylic diffuser conceals the LEDs while providing a highly-diffused, low-glare light. The smooth white reflector integrates into the diffuser creating soft illumination while distributing the light evenly in a wide pattern.

Item Number	
Notes	Type



### Listings

UL/cUL Listed  
RoHS Compliant

### Lumen Maintenance

L90 > 36,000 hours

### Warranty

Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix Example: VRK2UZDSW2CCT

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE (LUMEN PACKAGE) <sup>1,2</sup>	COLOR TEMPERATURE	OPTIONS	CONTROLS
VRK = Volumetric Retrofit Kit	2 = 2' x 2'	U = 120V-277V	ZD = 0-10V Dimming	SW2 = 28W/20W/17W/14W Selectable (4200L/3000L/2500L/2000L)	CCT = 35K/40K/50K 5CCT = 30K/35K/40K/50K/65K	BLANK = None EB = Battery Backup	IS = Integrated Sensor NLS = Network Lighting Control KLS = Keilton Sensor

<sup>1</sup> Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.  
<sup>2</sup> Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

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# 2x4 LED Volumetric Troffer Retrofit Kit

## Applications

The TCP LED Volumetric Troffer Retrofit Kit is a high-efficiency alternative to T5, T8, and T12 linear fluorescent troffers. Their intelligent high-performance LED light engines and drivers deliver long-life, consistent color, and superior lumen maintenance. Applications include offices, schools, retail and hospital locations.

## Construction

The TCP LED Volumetric Troffer Retrofit Kit is constructed of rugged cold-rolled steel, post painted with a matte white finish, and an acrylic diffuser.

## Electrical

All electrical components are cUL listed. TCP high-efficiency drivers provide consistent power to ensure even lighting from the long-life LEDs. Each driver is wattage selectable and is paired with a high-quality LED light engine to deliver long-life and high-quality light. Full range 0-10V dimming is optional.

## Optics

The acrylic diffuser conceals the LEDs while providing a highly-diffused, low-glare light. The smooth white reflector integrates into the diffuser creating soft illumination while distributing the light evenly in a wide pattern.

Item Number	
Notes	Type

**Listings**  
UL/cUL Listed  
RoHS Compliant

**Lumen Maintenance**  
L90 > 36,000 hours

**Warranty**  
Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix Example: VRK4UZDSW3CCT

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE (LUMEN PACKAGE) <sup>1,2</sup>	COLOR TEMPERATURE	OPTIONS	CONTROLS
VRK = Volumetric Retrofit Kit	4 = 2' x 4'	U = 120V-277V	ZD = 0-10V Dimming	SW3 = 36W/28W/20W/17W Selectable (5200L/4200L/3000L/2500L)	CCT = 35K/41K/50K 5CCT = 30K/35K/40K/50K/65K	BLANK = None EB = Battery Backup	IS = Integrated Sensor NLS = Network Lighting Control KLS = Keilton Sensor

<sup>1</sup> Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.  
<sup>2</sup> Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

For the most up-to-date specs and warranty information, please visit [www.tcp.com](http://www.tcp.com)



# TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 30 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:



For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit [tcp.com](http://tcp.com)

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