

Luxterior

by TCP

LED Volumetric CCT Troffer

Product Specifications



TCP's LED Volumetric CCT Troffers offer a high-efficiency alternative to T5, T8 and T12 linear fluorescent systems. They provide long life with consistent color and superior lumen maintenance. Designed to mount in a variety of grid ceilings, the rugged, cold-rolled steel housing is post-painted with a highly diffused white finish. The low-glare acrylic diffuser provides wide distribution and the sloped reflector softens the contrast between the luminaire and the ceiling.

The LED Volumetric CCT Troffers offer a cost-effective solution to maximize savings and take advantage of potential utility rebates without sacrificing performance.

Reasons to choose the LED Volumetric CCT Troffer from TCP

- Uses up to 61% less energy than fluorescent alternatives
- Long 50,000 hour rated life
- Excellent color consistency and CRI
- Mercury-free
- Fits standard 1" and 9/16" T-bar grid ceilings
- Acrylic diffuser with sloped housing design
- Slim, low-profile design

Ideal Applications in T-Bar Ceilings

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

Specifications

Input Line Voltage	120-277 VAC
Input Line Frequency (Hz)	50/60Hz
Wattage (W)	
1x4	23W/29W/38W
2x2	23W/29W/38W
2x4	23W/29W/38W
2x4	29W/39W/46W
Lumens (L)	
1x4	3000L/3800L/5000L
2x2	3000L/3800L/5000L
2x4	3000L/3800L/5000L
2x4	3800L/5300L/6000L
Lumens per Watt (LPW).....	>130LPW
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, IC rated, IP20, DLC 5.1 Listed
Controls.....	0-10V dimming (standard)



Replacement Strategy

SYSTEM	BALLAST FACTOR	LUMENS	INPUT WATTS*	LED ENERGY SAVINGS
TCP LED Volumetric Troffer - 2x2	—	3800	29	—
2 Lamp 34W T12 U-Bend	0.88	4420	74	61%
2 Lamp 32W T8 U-Bend	0.88	4275	58	50%
2 Lamp 24W T5HO	1.0	3145	54	46%
TCP LED Volumetric Troffer - 2x4	—	5000	38	—
3 Lamp 32W T8 HBF	1.18	6960	93	59%
3 Lamp 32W T8 NBF	0.88	6681	89	57%
2 Lamp 32W T8 HBF	1.18	4658	65	42%
2 Lamp 28W T5	1.0	4675	63	40%
2 Lamp 32W T8 NBF	0.88	4468	59	36%

*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

Applications

The TCP LED Volumetric CCT Troffers are high efficiency alternatives to T5, T8 and T12 linear fluorescent troffers. Our intelligent high performance LED light engines and drivers deliver long life, consistent color, and superior lumen maintenance. Applications include offices, schools, retail locations, hospitals, and other T-grid ceilings.

Construction

The TCP LED Volumetric CCT Troffer is constructed of rugged cold-rolled steel, post-painted with a highly diffused white finish, and an acrylic diffuser. The housing is designed to mount in a variety of grid ceiling types.

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 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 and distributing the light evenly in a wide pattern. The sloped design also softens the contrast between the luminaire and the ceiling.



Listings

UL/cUL Listed
IC Rated
RoHS Compliant
DLC 5.1 Listed

Lumen Maintenance

L90 > 36,000 hours

Warranty

Seven year limited warranty against defects in manufacturing.

Catalog Ordering Matrix Example: TRV2UZD38CCT

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE ^{1,2,3}	COLOR TEMPERATURE	OPTIONS ⁴
TRV = Volumetric Troffer	2 = 2' x 2'	U = 120V-277V	ZD = 0-10V Dimming	23 = 3000 Lumens 29 = 3800 Lumens 38 = 5000 Lumens (Wattage Selectable to 38W/29W/23W)	CCT = Selectable CCT 3500K/4100K/5000K	EB = Emergency Backup

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

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

³ 23W and 29W are permanently fixed; 38W is adjustable to 38W, 29W, or 23W.

⁴ Battery Backup will operate at highest CCT when activated.

Accessories:

Item Number	Description
DNFLK2	RECESS MOUNT FLANGE KIT FOR 2X2 TROFFERS AND PANELS (WHITE)
YHANGER6PK	Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS)
DRVEXTCABLE	3FT DRIVER EXTENSION CABLE

For the most up-to-date specs and warranty information, please visit www.tcpi.com

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7 YEAR WARRANTY

Not all versions of this product are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.