

# TPE

## 1x4 Edgelit LED Troffer

### Product Description

The ultra slim, flat panel TPE Edgelit Troffer provides uniform edge-to-edge illumination for a modern, clean aesthetic that eliminates shadowing. It installs easily into tight ceiling spaces, making it an ideal replacement for traditional fluorescent fixtures, and includes built-in T-Grid clips for a more secure installation and added safety. The TPE is available in 1x4, 2x2 and 2x4 configurations and has optional accessories for surface mount or recessed flange mount applications as well as emergency battery backup.

#### Construction

- Extruded aluminum frame with powder coat finish
- Coated steel backplate increases fixture rigidity
- Smooth formed sides for safe handling

#### Optical System

- Edge lit LED technology
- Precision engineered PMMA light guide prevents yellowing and crazing
- High efficiency optical stack provides 125+ lumen per watt depending on CCT

#### Electrical

- Input voltage of 120-277VAC
- Driver delivers full-range dimming from 0 - 10VDC
- 2kV surge protection standard
- Operating temperature rating of 0°F to 100°F (-18°C to 38°C)
- Meets FCC Part 15B: 2016 Class A requirements
- TM-21 Reported L70(9k) life >54,000 hours
- TM-21 Calculated L70(9k) life = 238,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

#### Mounting and installation

- Four integral T-Grid clips with mounting holes for seismic wire
- Junction box with multiple knockouts mounted to back of fixture for easy installation
- Certified for direct contact with insulation
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

#### Finish

- Matte white powder coat finish

#### Warranty

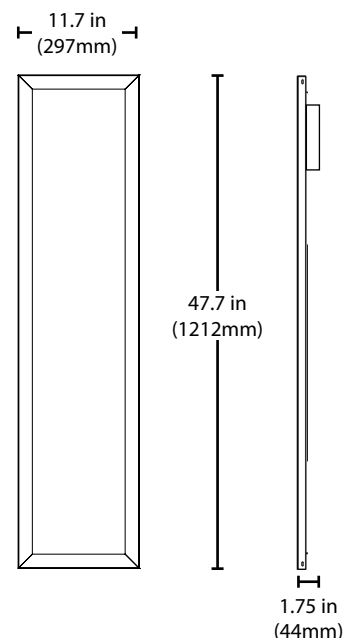
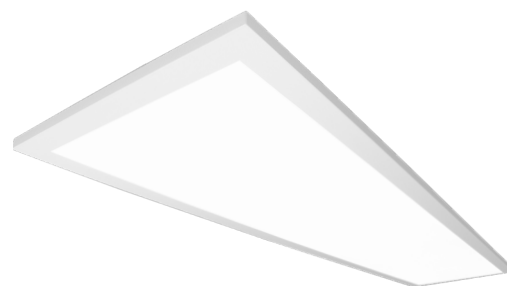
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge.)

Project

Catalog

Type

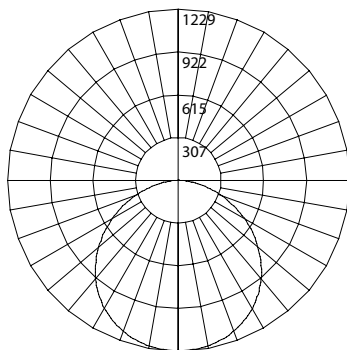
Date



## Photometric Data

### TPE1014S 4000K

Input Voltage (VAC)	120-277
System Level Power (W)	28.0
Delivered Lumens (Lm)	3528
System Efficacy (Lm/W)	126.0
Correlated Color Temp (K)	3913
Color Rendering Index (CRI)	82
Beam Angle (0°)	110.4°
Beam Angle (90°)	113.4°
Spacing Criteria (0°)	1.26
Spacing Criteria (90°)	1.30



#### Intensity Summary (Candle Power)

Angle	Along	Across
0	1226	1226
5	1216	1225
15	1175	1190
25	1091	1116
35	970	1000
45	810	841
55	623	650
65	426	442
75	228	236
85	59	59
90	3	6

#### CCT Data Multiplier

TPE1014S10MV35	0.966
TPE1014S10MV50	1.016

#### Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	76.6	5.2
6	34.0	7.8
8	19.1	10.4
10	12.3	12.9
12	8.5	15.5
14	6.3	17.8
16	4.7	20.5

#### Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	957	27.1%
0-40	1571	44.5%
0-60	2772	78.6%
0-90	3507	99.4%
90-180	20	0.6%
0-180	3528	100.0%

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

#### Performance Data

Model Number	Lumens	Watts	Lumens/Watt
TPE1014SMV35	3407	27.6	123.4
TPE1014SMV40	3528	28.0	126.0
TPE1014SMV50	3584	28.0	128.0

#### Recommended Dimmers\*

Lutron NTSTV-DV-WH  
Lutron DVSTV  
Cooper SF10P  
Legrand RH4FBL3PW

\*Not a complete list. Check compatibility before installation.

## Ordering Information

Example: TPE1014SMV40WHE1

Series	Version	Size	Voltage	CCT's	Finish	Emergency (Optional)
<b>TPE</b>	<b>10</b> (Version 1)	<b>14S</b> (1x4)	<b>MV</b> (120-277V)	<b>35</b> (3500 K)	<b>WH</b> (White)	<b>E1</b> (EMB45)
				<b>40</b> (4000 K)		<b>E2</b> (EMB80)
				<b>50</b> (5000 K)		<b>E3</b> (EMB250)

Specifications and dimensions subject to change without notice.

## Accessories

accessories sold separately

TPE 1x4 Emergency Mounting Plate	TPE1014EMPLATE
TPE 1X4 Flange Mount Kit	TPE10FK14
TPE 1X4 Surface Mount Kit	TPE10SK14

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.