

# TPC

## 2x2 Edgelit LED Panel

### Product Description

The ultra slim, TPC Edgelit Panel 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 TPC 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 with powder coat finish
- Coated backplate increases fixture rigidity

#### Optical System

- Edge lit LED technology
- Precision engineered MS light guide for high efficiency transmission
- High efficiency optical stack provides up to 105 lumens per watt depending on CCT

#### Electrical

- Input voltage of 120-277VAC
- Driver delivers full-range dimming from 0 - 10VDC
- Operating temperature rating of 0°F to 100°F (-18°C to 38°C)
- Meets FCC Part 15B Class A requirements
- TM-21 Reported L70(6k) life >36,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

#### Mounting and installation

- 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 electrical distribution panel

#### Finish

- Matte white powder coat finish

#### Warranty

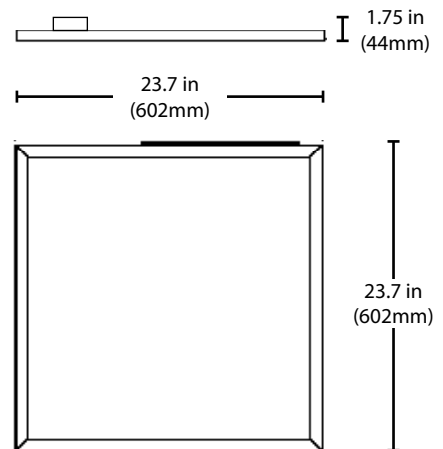
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge.)

Project

Catalog

Type

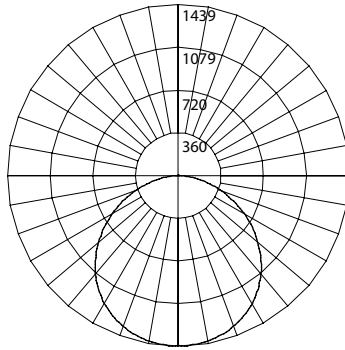
Date



# Photometric Data

## TPC1022 3500K

|                             |         |
|-----------------------------|---------|
| Input Voltage (VAC)         | 120-277 |
| System Level Power (W)      | 40.1    |
| Delivered Lumens (Lm)       | 4139    |
| System Efficacy (Lm/W)      | 103.3   |
| Correlated Color Temp (K)   | 3433    |
| Color Rendering Index (CRI) | 81      |
| Beam Angle (0°)             | 112.4°  |
| Beam Angle (90°)            | 113.2   |
| Spacing Criteria (0°)       | 1.26    |
| Spacing Criteria (90°)      | 1.28    |



### Intensity Summary (Candle Power)

| Angle | Along | Across |
|-------|-------|--------|
| 0     | 1439  | 1439   |
| 5     | 1434  | 1432   |
| 15    | 1389  | 1378   |
| 25    | 1294  | 1278   |
| 35    | 1155  | 1134   |
| 45    | 977   | 951    |
| 55    | 765   | 740    |
| 65    | 529   | 506    |
| 75    | 285   | 266    |
| 85    | 70    | 57     |
| 90    | 0     | 0      |

### CCT Data Multiplier

|             |       |
|-------------|-------|
| TPC1022MV40 | 1.011 |
| TPC1022MV50 | 1.017 |

### Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4                     | 90.0                    | 5.9             |
| 6                     | 40.0                    | 8.9             |
| 8                     | 22.5                    | 11.9            |
| 10                    | 14.4                    | 14.8            |
| 12                    | 10.0                    | 17.8            |
| 14                    | 7.3                     | 20.8            |
| 16                    | 5.6                     | 23.7            |

### Zonal Lumen Summary

| Zone   | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30   | 1119   | 27.0%          |
| 0-40   | 1835   | 44.3%          |
| 0-60   | 3250   | 78.5%          |
| 0-90   | 4135   | 99.9%          |
| 90-180 | 0      | 0.0%           |
| 0-180  | 4139   | 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 |
|--------------|--------|-------|-------------|
| TPC1022MV35  | 4139   | 40.1  | 103.3       |
| TPC1022MV40  | 4184   | 40.1  | 104.4       |
| TPC1022MV50  | 4209   | 40.1  | 105.0       |

### Recommended Dimmers\*

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

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

## Ordering Information

Example: TPC1022MV40WH

| Series | Version        | Size     | Voltage       | CCT's       | Finish     | Emergency (Optional) |
|--------|----------------|----------|---------------|-------------|------------|----------------------|
| TPC    | 10 (Version 1) | 22 (2x2) | MV (120-277V) | 35 (3500 K) | WH (White) | E1 (EMB45)           |
|        |                |          |               | 40 (4000 K) |            | E2 (EMB80)           |
|        |                |          |               | 50 (5000 K) |            | E3 (EMB250)          |

Specifications and dimensions subject to change without notice.

## Accessories

accessories sold separately

|                                    |                  |
|------------------------------------|------------------|
| 2X2 & 2X4 Emergency Mounting Plate | TPE102224EMPLATE |
| 2X2 Flange Mount Kit               | TPE10FK22        |
| 2X2 Surface Mount Kit              | TPE10SK22        |

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.