

# Select Series LED Direct Troffer Luminaires

## Product Specifications

TCP's Select Series LED Direct Troffer Luminaires feature backlit technology with a robust construction that still offers a slim, low-profile design with beautiful full panel diffusion and superior uniformity. These energy-efficient troffers offer a cost-effective solution to maximize energy savings and take advantage of potential utility rebates where applicable.

Applications: T-bar Grid Ceilings

## Reasons to choose the Select Series LED Direct Troffers Luminaires from TCP

- Save up to 43% over traditional LED flat panels
- Provides energy savings over fluorescent alternatives and potential rebate eligibility
- Long 50,000 hour rated life significantly reduces maintenance labor and material costs
- Excellent color consistency and CRI enhance color of focal point while maintaining uniformity throughout lighting installation
- Mercury free construction is great for all environments
- Fits standard 1" and 9/16" T-bar grid ceilings
- Utilizes backlit technology for full diffusion with excellent uniformity
- Slim, low-profile design and lightweight for easy handling
- Battery Backup is Title 20 Compliant

## Ideal Applications

- Office
- Retail Stores
- Schools
- Hospitality
- Restaurants
- Healthcare

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5 YEAR WARRANTY

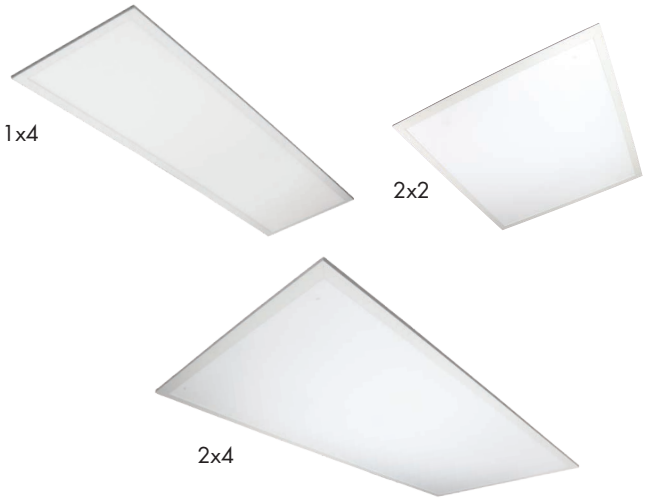
# Select Series LED Direct Troffers

## Specifications

Wattage (W)
- 1x4
  - SW2 ..... 32W/26W/18W/15W
- 2x2
  - SW2 ..... 32W/26W/18W/15W
  - SW5 ..... 46W/36W/26W/22W
  - SW6 ..... 65W/55W/46W/36W
- 2x4
  - SW3 ..... 32W/26W/22W/18W
  - SW5 ..... 46W/36W/26W/22W
  - SW6 ..... 65W/55W/46W/36W
  - SW8 ..... 85W/75W/65W

Lumens (L)
- 1x4
  - SW2 ..... 4600L/3800L/2800L/2325L
- 2x2
  - SW2 ..... 4600L/3800L/2800L/2325L
  - SW5 ..... 6624L/5200L/3800L/3200L
  - SW6 ..... 9360L/7920L/6624L/5200L
- 2x4
  - SW3 ..... 5200L/3800L/3200L/2800L
  - SW5 ..... 6624L/5200L/3800L/3200L
  - SW6 ..... 9360L/7920L/6624L/5200L
  - SW8 ..... 10,000L/8800L/7600L

Lumens Per Watt (LPW) ..... >130 LPW
Input Line Voltage ..... 120-277 VAC
Input Line Frequency (Hz ..... 50/60Hz
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
Controls ..... 0-10V dimming (standard)




## Replacement Strategy

| SYSTEM | BALLAST FACTOR | LUMENS | INPUT WATTS* | LED ENERGY SAVINGS |
|---|---|---|---|---|
| **TCP LED Direct Troffer - 2x4** | — | **5200** | **36** | — |
| 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% |

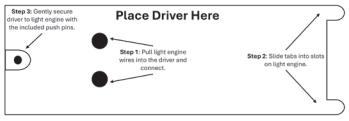
*Actual wattage may differ by +/- 5%, when operating between 120-277V +/- 10%.

**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**

## Quick Click Installation

### Step 1:

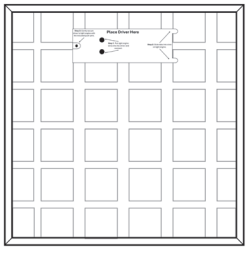
Look for this sticker on the back of the light fixture.




**Scan QR Code to view an installation tutorial.**

### Step 2:

Follow the directions to secure the driver to the fixture.



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# 2x4 Select Series LED Direct Troffers

## Applications

TCP Select Series LED Direct Troffers are cost-effective, high-efficiency alternatives to traditional T5, T8 and T12 linear fluorescent troffers. Featuring a slim, low-profile design, our LED DT Series Luminaires use backlit technology to deliver full panel diffusion and superior uniformity that meets or exceeds the output from edge-lit panels. Applications include offices, schools, retail locations, healthcare, hospitality and other T-grid and commercial ceilings.

## Construction

- Rectangular white frame
- Lens: frosted white diffuser
- IP20 rated
- IC rated for direct contact with insulation
- Designed for easy drop into T-bar grid ceilings

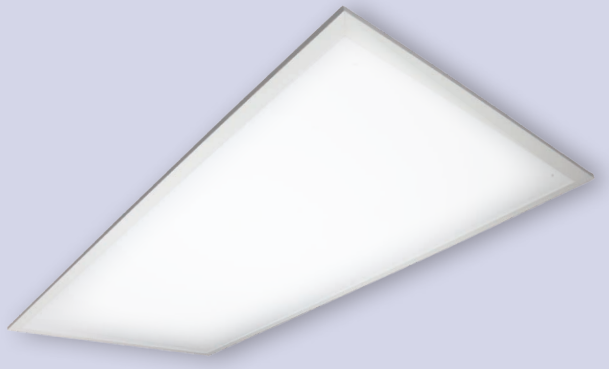
## Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- LED driver with integrated junction box
- System rated for long 50,000 hour life

## Optics

- Backlit technology provides even, uniform lighting
- 120° beam angle
- Frosted diffuser for reduced glare and aesthetic appeal
- Meets or exceeds the look and performance of edge-lit panels

| Item Number | |
|---|---|
| Notes | Type |



**Listings**

UL/cUL Listed
IC Rated
RoHS Compliant

**Lumen Maintenance**

L70 > 54000 hours

**Warranty**

Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix

| FAMILY | SIZE | VOLTAGE | DIMMING | WATTAGE[1,2] | COLOR TEMPERATURE | FACTORY INSTALLED OPTIONS |
|---|---|---|---|---|---|---|
| **DTF** = Direct Troffer Frosted | **4** = 2′ x 4′ | **U** = 120-277V | **ZD** = 0-10V Dimming | **SW3 =** 36/26/22/18W (5200/3800/3200/2800L)<br>**SW5 =** 46/36/26/22W (6624/5200/3800/3200L)<br>**SW6 =** 65/55/46/36W (9360/7920/6624/5200L)<br>**SW8 =** 85/75/65W (10,000/8800/7600L) | **CCT =** 3500/4100/5000K Selectable<br>**6CCT =** 2700/3000/3500/ 4100/5000/6500K Selectable | **BLANK =** None<br>**IS =** Integrated Sensor<br>**EB =** Battery Backup<br>**CP =** Chicago Plenum<br>**NLS** = DLC Network Lighting Sensor |

**Accessories:**

| Item Number | Description |
|---|---|
| **YHANGER6PK** | Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS) |
| **DTSK4** | SURFACE MOUNT KIT FOR 2X4 PANELS |
| **DTFLK4** | RECESS MOUNT FLANGE KIT FOR 2X4 PANELS |
| **ISREMOTE** | REMOTE FOR INTEGRATED SENSOR |
| **DTQD4D1SN** | REPLACEMENT DRIVER FOR 2X4 PANEL |
| **DTQD4D1ISSN** | REPLACEMENT DRIVER FOR 2X4 PANEL WITH SENSOR |

[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%.

Specifications subject to change without notice.

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

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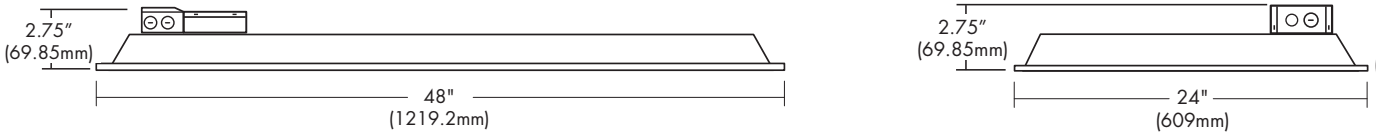
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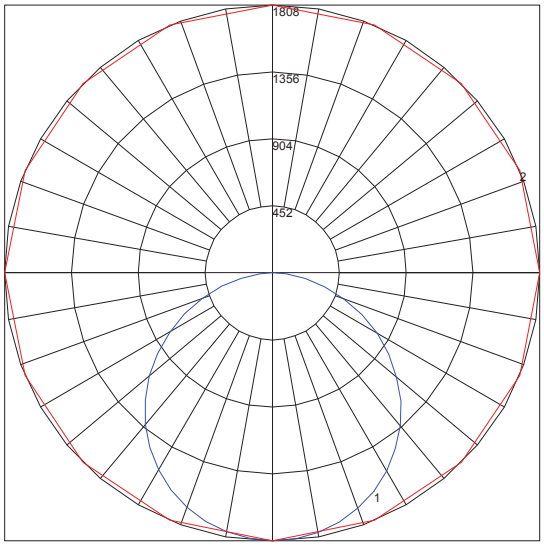
## Dimensions and Mounting Data




## Photometric Report

Based on photometric data for
TCP Item # DTF4UZDSW3CCT (36W, 41K)

### Polar Graph




Maximum Candela = 1808.2 Located At Horizontal Angle = 0, Vertical Angle = 0
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

### Average Luminance
**candelas/square meter (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 2333 | 2317 | 2318 |
| 55 | 2254 | 2237 | 2229 |
| 65 | 2125 | 2092 | 2083 |
| 75 | 1904 | 1866 | 1822 |
| 85 | 1499 | 1470 | 1394 |

Spacing Criterion (0-180): 1.28
Spacing Criterion (90-270): 1.28

Specifications and dimensions subject to change without notice.

### Coefficients of Utilization – Zonal Cavity Method

**Effective Floor Cavity Reflectance 0.20**

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 58 | 52 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

### Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 661.93 | N.A. | 12.70 |
| 0-30 | 1407.56 | N.A. | 26.90 |
| 0-40 | 2309.2 | N.A. | 44.20 |
| 0-60 | 4094.49 | N.A. | 78.40 |
| 0-80 | 5115.44 | N.A. | 97.90 |
| 0-90 | 5222.48 | N.A. | 100.00 |
| 10-90 | 5051.35 | N.A. | 96.70 |
| 20-40 | 1647.27 | N.A. | 31.50 |
| 20-50 | 2584.72 | N.A. | 49.50 |
| 40-70 | 2431.84 | N.A. | 46.60 |
| 60-80 | 1020.95 | N.A. | 19.50 |
| 70-80 | 374.40 | N.A. | 7.20 |
| 80-90 | 107.04 | N.A. | 2.00 |
| 90-110 | 0.62 | N.A. | 0.00 |
| 90-120 | 0.62 | N.A. | 0.00 |
| 90-130 | 0.62 | N.A. | 0.00 |
| 90-150 | 0.67 | N.A. | 0.00 |
| 90-180 | 1.55 | N.A. | 0.00 |
| 110-180 | 0.94 | N.A. | 0.00 |
| 0-180 | 5224.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%


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