# 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.

DT by TCP

# DT Series Low Bay Luminaires with Selectable CCT

Product Specifications

TCP's LED DT Series Low Bay Luminaires with Selectable CCT 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 Low Bays 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 LED DT Series Low Bay Luminaires with Selectable CCT from TCP

- 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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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.

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5 YEAR WARRANTY

## Specifications

Input Line Voltage ..... 120-277 VAC
Input Line Frequency (Hz) ..... 50/60Hz
Wattage (W)
2x2
A1 ..... 32/26/18W
2x4
A1 ..... 36/26/22W
Lumens (L)
2x2
A1 ..... 4200/3400/2600L
2x4
A1 ..... 5200/3800/3200L
Lumens Per Watt (LPW) ..... 130LPW/115LPW
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 Standard
Controls ..... 0-10V dimming (standard)

2x2

2x4

## Replacement Strategy

| SYSTEM | BALLAST FACTOR | LUMENS | INPUT WATTS* | LED ENERGY SAVINGS |
|---|---|---|---|---|
| **TCP LED Direct Troffer - 2x2** | — | **3200** | **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 Direct Troffer - 2x4** | — | **5100** | **46** | — |
| 3 Lamp 32W T8 HBF | 1.18 | 6960 | 93 | 50% |
| 3 Lamp 32W T8 NBF | 0.88 | 6681 | 89 | 48% |
| 2 Lamp 32W T8 HBF | 1.18 | 4658 | 65 | 29% |
| 2 Lamp 28W T5 | 1.0 | 4675 | 63 | 27% |
| 2 Lamp 32W T8 NBF | 0.88 | 4468 | 59 | 22% |

*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**

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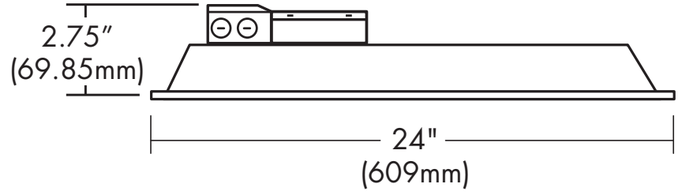
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DT Series Low Bay Luminaires with Selectable CCT

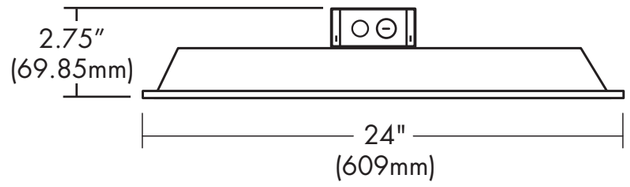
## Dimensions and Mounting Data

### 2x2




### 2x4




Specifications and dimensions subject to change without notice.

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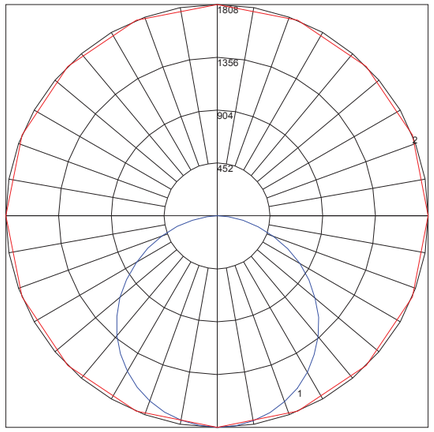
5 YEAR WARRANTY

# 2x4 LED DT Series Low Bay Luminaires with Selectable CCT

## Photometric Report

Based on photometric data for
TCP Item # DTF4UZDA1CCT (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

### 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.%

Specifications and dimensions subject to change without notice.

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5 YEAR WARRANTY

# 2x2 LED DT Series Low Bay Luminaires with Selectable CCT

## Applications

TCP LED DT Series Low Bay Luminaires with Selectable CCT 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

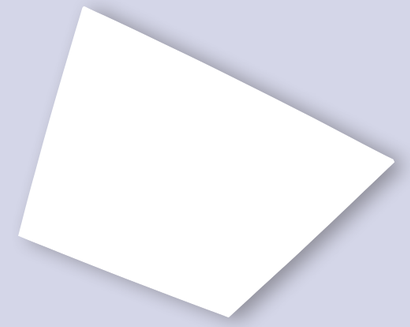
## Electrical

- 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
DLC 5.1 Standard

**Lumen Maintenance**
L70 > 54000 hours

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

## Catalog Ordering Matrix

| FAMILY | LENS TYPE | SIZE | VOLTAGE | DIMMING | LUMEN PACKAGE[1] (WATTAGE[2]) | COLOR TEMPERATURE | OPTIONS |
|---|---|---|---|---|---|---|---|
| **DT** = Direct Troffer | **F =** Frosted | **2** = 2' x 2' | **U** = 120-277V | **ZD** = 0-10V Dimming | **A1** = 32/26/22/18W (5200/3800/3200/2800L) | **CCT =** 3500/4100/5000K Selectable | **BLANK =** None<br>**EB =** Battery Backup[3] |

[1]Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 10%.
[3] ILBCP07ATBTS – 7W battery backup, Title 20 compliant. Battery Backup will operate at highest CCT when activated.

**Accessories:**

| Item Number | Description |
|---|---|
| **YHANGER6PK** | Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS) |
| **DTSK2** | SURFACE MOUNT KIT FOR 2X2 PANELS |
| **DTFLK2** | RECESS MOUNT FLANGE KIT FOR 2X2 PANELS |

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

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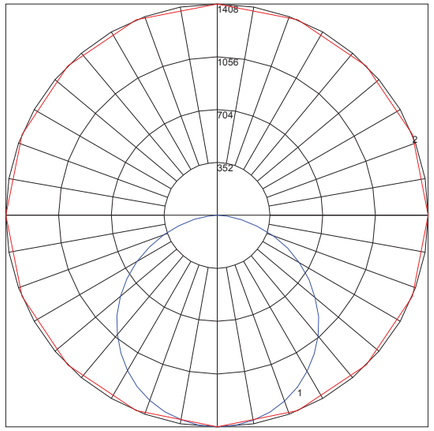
5 YEAR WARRANTY

# 2x2 LED DT Series Low Bay Luminaires with Selectable CCT

## Photometric Report

Based on photometric data for
TCP Item # DTF2UZDA1CCT (32W, 41K)

### Polar Graph




Maximum Candela = 1407.6 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 | 3631 | 3602 | 3585 |
| 55 | 3506 | 3474 | 3437 |
| 65 | 3292 | 3239 | 3179 |
| 75 | 2892 | 2795 | 2680 |
| 85 | 2165 | 1983 | 1746 |

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

### 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 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | | 82 | 77 | 73 | | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | | 72 | 66 | 62 | | 69 | 65 | 61 | 58 |
| 4 | 82 | 70 | 61 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | | 64 | 58 | 53 | | 62 | 56 | 52 | 50 |
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| 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 | 515.20 | N.A. | 12.70 |
| 0-30 | 1095.31 | N.A. | 27.10 |
| 0-40 | 1796.69 | N.A. | 44.40 |
| 0-60 | 3184.62 | N.A. | 78.70 |
| 0-80 | 3967.55 | N.A. | 98.10 |
| 0-90 | 4044.17 | N.A. | 100.00 |
| 10-90 | 3910.96 | N.A. | 96.70 |
| 20-40 | 1281.49 | N.A. | 31.70 |
| 20-50 | 2010.58 | N.A. | 49.70 |
| 40-70 | 1887.56 | N.A. | 46.70 |
| 60-80 | 782.93 | N.A. | 19.40 |
| 70-80 | 283.30 | N.A. | 7.00 |
| 80-90 | 76.63 | N.A. | 1.90 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.01 | N.A. | 0.00 |
| 90-180 | 0.76 | N.A. | 0.00 |
| 110-180 | 0.76 | N.A. | 0.00 |
| 0-180 | 4044.93 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

Specifications and dimensions subject to change without notice.


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5 YEAR WARRANTY

# 2x4 LED DT Series Low Bay Luminaires with Selectable CCT

## Applications

TCP LED DT Series Low Bay Luminaries with Selectable CCT 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

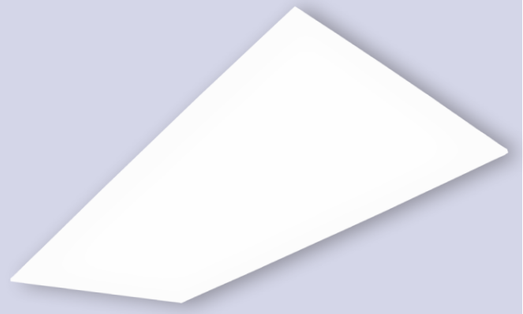
## Electrical

- 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
DLC 5.1 Standard

**Lumen Maintenance**
L70 > 54000 hours

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

## Catalog Ordering Matrix

| FAMILY | LENS TYPE | SIZE | VOLTAGE | DIMMING | LUMEN PACKAGE[1] (WATTAGE[2]) | COLOR TEMPERATURE | OPTIONS |
|---|---|---|---|---|---|---|---|
| **DT** = Direct Troffer | **F** = Frosted | **4** = 2' x 4' | **U** = 120-277V | **ZD** = 0-10V Dimming | **A1** = 36/26/22/18W (5200/3800/3200/2800L) | **CCT** = 3500/4100/5000K Selectable | **BLANK** = None<br>**EB** = Battery Backup[3] |

[1]Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 10%.
[3] ILBCP07ATBTS – 7W battery backup, Title 20 compliant. Battery Backup will operate at highest CCT when activated.

**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 |

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


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