

LED Premium Flat Panel Luminaires

Great Features/Benefits

TCP's LED Flat Panel Luminaire features a slim, low-profile design with full panel diffusion and superior uniformity.

It offers a cost effective solution to maximize savings and take advantage of utility rebates without sacrificing performance.

APPLICATIONS: T-bar Grid Ceilings

- Up to 51% less energy than fluorescent alternatives
- Long 50,000 hour rated life
- Excellent color consistency & CRI
- Mercury free
- Fits standard 1" and 9/16" T-bar grid ceilings
- Utilizes edge-lit technology
- Slim, low-profile design
- Ideal for:
 - Offices
 - Retail Stores
 - Schools
 - Hospitality
 - Restaurants
 - Healthcare



7 YEAR WARRANTY



Features/Benefits

Up to 51% less energy than fluorescent alternatives	Instant energy savings; potential rebate eligibility
Long 50,000 hour rated life	Significantly reduce maintenance labor & material costs
Excellent color consistency & CRI	Enhances color of focal point while maintaining uniformity throughout lighting installation
Mercury free	Great for all environments
Fits standard 1" and 9/16" T-bar grid ceilings	Easy installation and retrofit application
Utilizes edge-lit technology	Full diffusion with excellent uniformity
Slim, low-profile design	Lightweight for easy handling. Fit more per pallet to reduce shipping cost and storage space

Specifications

Input Line Voltage	120-277 VAC
Input Line Frequency (Hz)	50/60HZ
Wattage (W)	2x2 - 23W/29W/38W 2x4 - 23W/29W/38W/46W
Lumens (l)	2x2 - 3000L/3800L/4800L 2x4 - 3250L/4000L/5200L/6000L
Lumens per Watt (LPW)	>125 LPW
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)



7 YEAR
WARRANTY

Replacement Strategy

SYSTEM	BALLAST FACTOR	LUMENS	INPUT WATTS*	LED ENERGY SAVINGS
TCP LED Flat Panel - 2x2	—	4100	38	—
2 Lamp 34W T12 U-Bend	0.88	4420	74	49%
2 Lamp 32W T8 U-Bend	0.88	4275	58	34%
2 Lamp 24W T5HO	1.0	3145	54	30%
TCP LED Flat Panel - 2x4	—	5200	46	—
3 Lamp 32W T8 HBF	1.18	6960	93	51%
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

2x2 LED Premium Flat Panel Luminaire

Applications

TCP LED Flat Panel luminaires are cost-effective, high-efficiency alternatives to traditional T5, T8 and T12 linear fluorescent troffers. Featuring a slim, low-profile design, our LED flat panels uses edge-lit technology to deliver full panel diffusion and superior uniformity. Applications include offices, schools, retail locations, healthcare, hospitality and other T-grid and commercial ceilings.

Construction

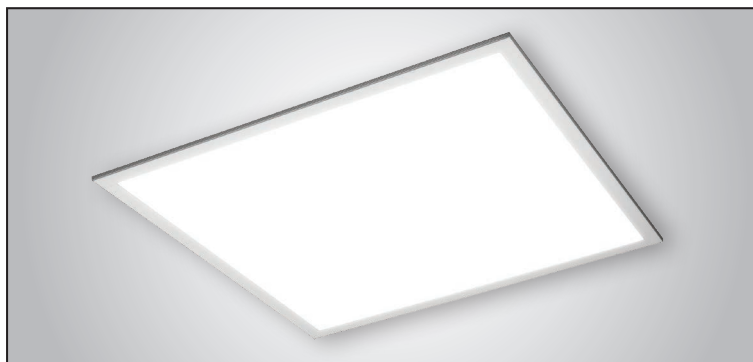
- Remote driver and junction box
- Rectangular white frame
- Lens: frosted white diffuser
- IP20 rated
- IC rated for direct contact with insulation
- Designed for easy drop into T-bar grid ceilings

Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- Separate driver with quick connect to panel
- System rated for long 50,000 hour life

Optics

- Innovative edge-lit technology paired with acrylic light guide and thin frosted white diffuser
- 120° beam angle
- Delivers full panel diffusion and excellent uniformity



Listings

UL/cUL Listed
IC Rated
RoHS Compliant

Lumen Maintenance

L90 > 42000 hours
L70 > 54000 hours

Warranty

Seven year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

Example: HFP2UZDA141K

HFP	2	U	ZD		
FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE	COLOR TEMPERATURE
HFP = High Efficiency Flat Panel	2 = 2' x 2'	U = 120V-277V	ZD = 0-10V Dimming	23 = 3000 Lumens 29 = 3800 Lumens 38 = 4800 Lumens	30K = 3000K 35K = 3500K 41K = 4100K 50K = 5000K

Accessories:

Item Number	Description
FPSK2	2X2 FLAT PANEL SUR MOUNT KIT (WHITE)
YHANGER6PK	Y FIT CABLE HANGER 6 PACK

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%.

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

2x4 LED Premium Flat Panel Luminaire

Applications

TCP LED Flat Panel luminaires are cost-effective, high-efficiency alternatives to traditional T5, T8 and T12 linear fluorescent troffers. Featuring a slim, low-profile design, our LED flat panels uses edge-lit technology to deliver full panel diffusion and superior uniformity. Applications include offices, schools, retail locations, healthcare, hospitality and other T-grid and commercial ceilings.

Construction

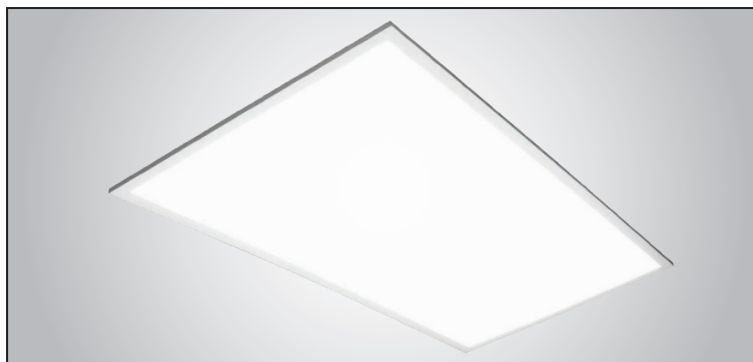
- Housing includes junction box for wiring
- Rectangular white frame
- Lens: frosted white diffuser
- IP20 rated
- IC rated for direct contact with insulation
- Designed for easy drop into T-bar grid ceilings

Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- Easy-to-access wiring compartment on back of fixture
- System rated for long 50,000 hour life

Optics

- Innovative edge-lit technology paired with acrylic light guide and thin frosted white diffuser
- 120° beam angle
- Delivers full panel diffusion and excellent uniformity



Listings

UL/cUL Listed
IC Rated
RoHS Compliant

Lumen Maintenance

L90 > 42000 hours
L70 > 54000 hours

Warranty

Seven year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

Example: HFP4UZDA141K

HFP	4	U	ZD		
FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE	COLOR TEMPERATURE
HFP = High Efficiency Flat Panel	4 = 2' x 4'	U = 120V-277V	ZD = 0-10V Dimming	23 = 3250 Lumens 29 = 4000 Lumens 38 = 5200 Lumens 46 = 6000 Lumens	30K = 3000K 35K = 3500K 41K = 4100K 50K = 5000K

Accessories:

Item Number	Description
FPSK4	2X4 FLAT PANEL SUR MOUNT KIT (WHITE)
YHANGER6PK	Y FIT CABLE HANGER 6 PACK

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%.