



**Certified LED Lights®**

Product Data Sheet  
2x2 and 2x4 Troffer panels



## Product Overview

These 2' x 2' and 2' x 4' LED Center Basket Volumetric Troffers are designed as a direct replacement for fluorescent fixtures installed in ACT grid or gyp. ceilings. These fixtures are kelvin selectable 30K, 35K, 4K, 5K, 6K and wattage selectable. It is the perfect choice for both new construction and retrofits. This high-efficacy fixture provides long-life and uniform illumination as well as standard 0-10V dimming capability.

This panels Series uses dip-switches to switch between five wattage and 5 CCT ranges making it ideal for offices, schools, hospitals, and other indoor spaces. The light engine is comprised of long-lasting, energy-efficient LEDs mounted on aluminum heat sinks. In addition to reducing heat dissipation, this setup extends the life of the product. This panel comes with a 5 year warranty and 50,000 hours from the date of delivery to the end-user, covering light output, color stability, and driver performance.

The ultra lightweight aluminum frame and integrated driver provide seamless light distribution that is superior to edge-lit panels, while providing higher structural integrity. This product is also available with factory installed emergency backup driver.

An independent laboratory tests our lights and LED components to ensure they meet the IESNA LM-79 and LM-80 standards. LED color temperature is warrantied to shift no more than 180K over the standard warranty period. Correlated Color Temperature (CCT) follows the guidelines set forth in the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

## Applications



Schools



Offices



Commercial  
Buildings



Healthcare

## Main Features

- \* CCT: 5 color temperature selectable in the field
- \* Wattage: 5 adjustable power selectable in the field
- \* DLC 5.1 premium listed
- \* UL listed for damp location
- \* ETL listed
- \* FCC Part 15, class B
- \* 135 to 166 lumens per watt
- \* Long-life LEDs provide 50,000 hours of operation
- \* Universal 100-277 AC voltage (50-60Hz) is standard
- \* 0-10 V dimming capability is standard
- \* Strengthened ultra lightweight 6063 aluminum Frame and steel backboard
- \* *Standard earthquake clips provide secure installation*
- \* *Standard recessed mounting in ACT ceilings*
- \* Battery backup option available

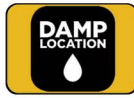
## Product Warranty



## Highlights and Certifications



ETL Listed



Damp Location



DLC 5.1 Premium Listed



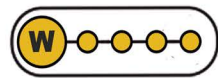
Dimming: 0-10V



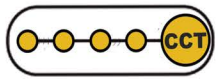
FCC Part 15, class B



UL listed for damp location



Field selectable wattage 5-way dip switch:  
20, 25, 30, 35, 40W for the 2x2 panel  
25, 30, 40, 45, 50W for the 2x4 panel



Field selectable CCT 5-way dip switch: 3K,  
35K, 4K 5K 6K for both panels

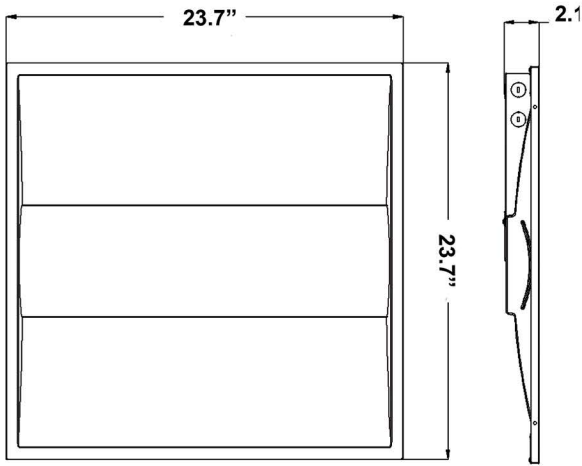
## Performance

2x2 20 W						2x2 25 W						2x2 30 W					
Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000
Lumens	2920	3106	3237	3259	3100	Lumens	3550	3777	3936	3962	3769	Lumens	4170	4436	4623	4654	4427
Lumens/Watt	146	155	162	163	155	Lumens/Watt	142	151	157	158	151	Lumens/Watt	139	148	154	155	148
2x2 35 W						2x2 40 W											
Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000						
Lumens	4795	5101	5316	5352	5090	Lumens	5400	5745	5987	6027	5732						
Lumens / Watt	137	146	152	153	145	Lumens / Watt	135	144	150	151	143						
2x4 25 W						2x4 30 W						2x4 40 W					
Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000
Lumens	3725	3963	4130	4157	3954	Lumens	4350	4628	4823	4855	4618	Lumens	5640	6000	6253	6295	5967
Lumens/Watt	149	159	165	166	158	Lumens/Watt	145	154	161	162	154	Lumens/Watt	141	150	156	157	149
2x4 45 W						2x4 50 W											
Color	3000	3500	4000	5000	6000	Color	3000	3500	4000	5000	6000						
Lumens	6165	6559	6835	6881	6545	Lumens	6750	7181	7483	7533	7165						
Lumens/Watt	137	146	152	153	145	Lumens/Watt	135	144	150	151	143						

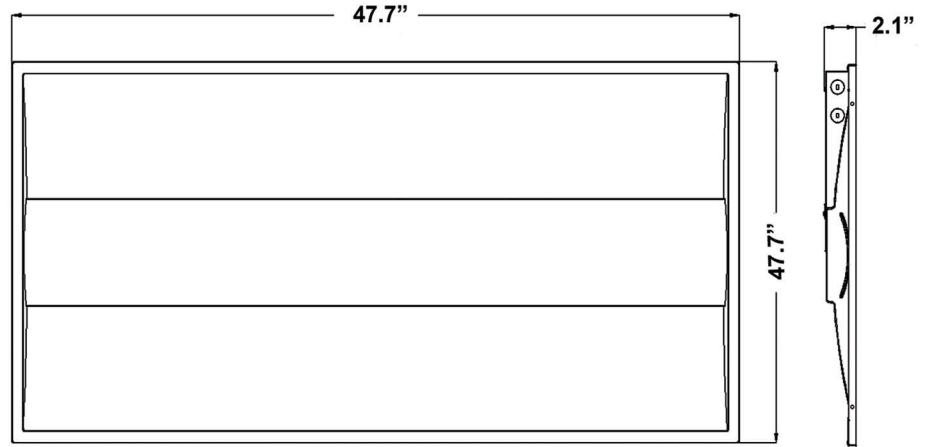
Performance data is based on a test at 120V

## Dimensions

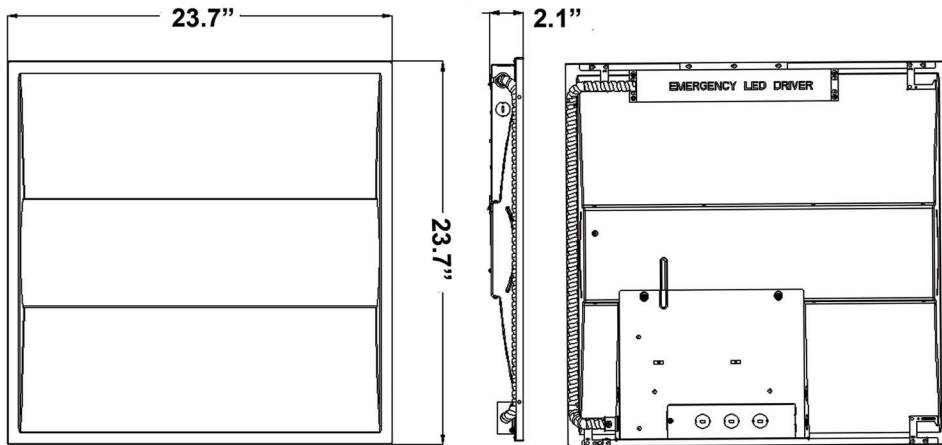
**2 x 2 panel without EM driver**



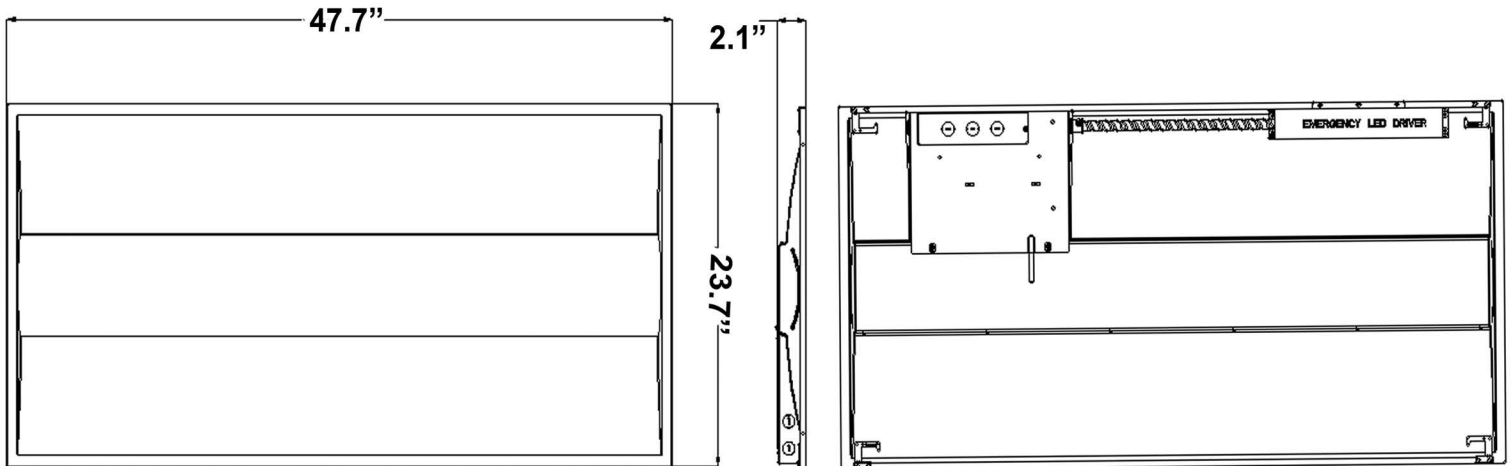
**2 x 4 panel without EM driver**



**2 x 2 panel with factory installed EM driver**



**2 x 4 panel with factory installed EM driver**





## Ordering guide

PART #	LUMENS	WATTAGE SELECTABLE	CCT TUNABLE
22TRF-40S5-27-TCP	2920-6027	20,25,30,35,40w	3K,35K, 4K, 5K, 60K
24TRF-50S5-27-TCP	3725-7533	25,30,40,45,50w	3K,35K, 4K, 5K, 60K
22TRF-40S5-27-TCP-EM	2920-6027	20,25,30,35,40w	3K,35K, 4K, 5K, 60K
24TRF-50S5-27-TCP-EM	3725-7533	25,30,40,45,50w	3K,35K, 4K, 5K, 60K

**Notes:** 22TRF means 2x2 panel

- 24TRF means 2x4 panel

- 27 means panels are 120-277V



- 40W means wattage selectable from 20 to 40W

- 50W means wattage selectable from 25 to 50W

- TCP means the products is 5 CCT selectable

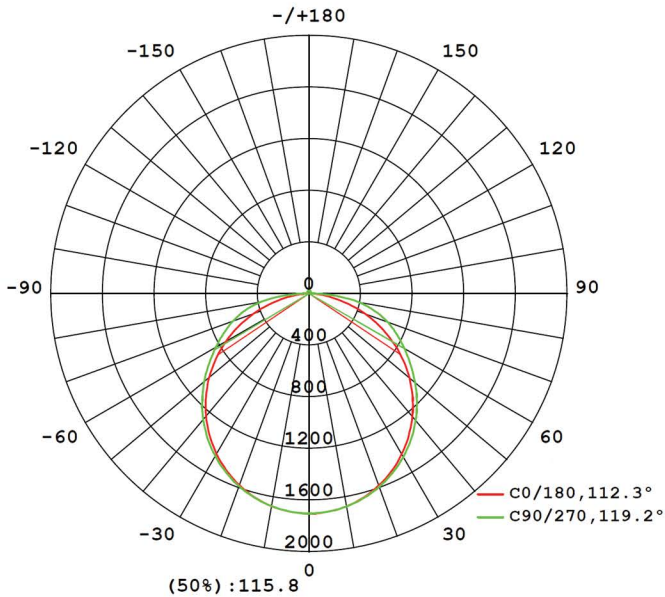
- EM at the end of the part number means the panel comes with a factory installed emergency driver

## Accessories ordering guide

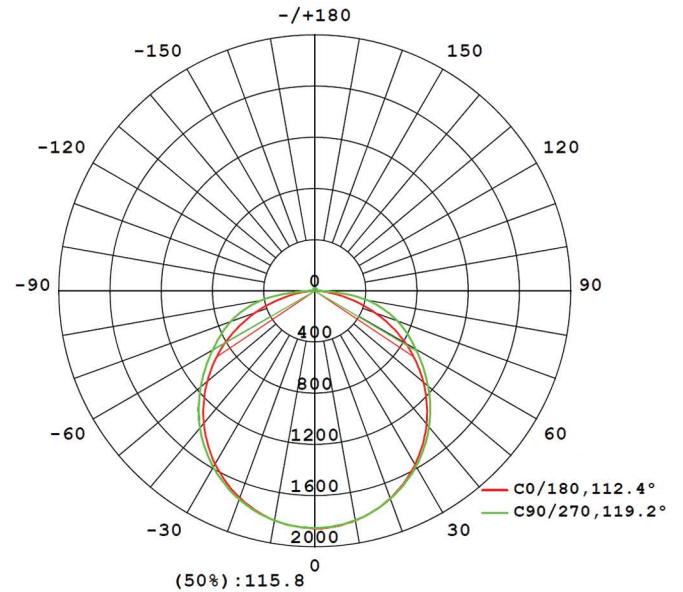
CATEGORY	PART #	DESCRIPTION	NOTE	PICTURE
EM Driver	HM08D-8W	Factory installed Emergency driver for 2x2 panel	Separate panel model number with factory installed EM driver	
Surface Mount kit	DTH-SMKT-22	Surface mount kit for 2x2 panels	Order separately	
	DTH-SMKT-24	Surface mount kit for 2x4 panels	Order separately	

## Photometric data

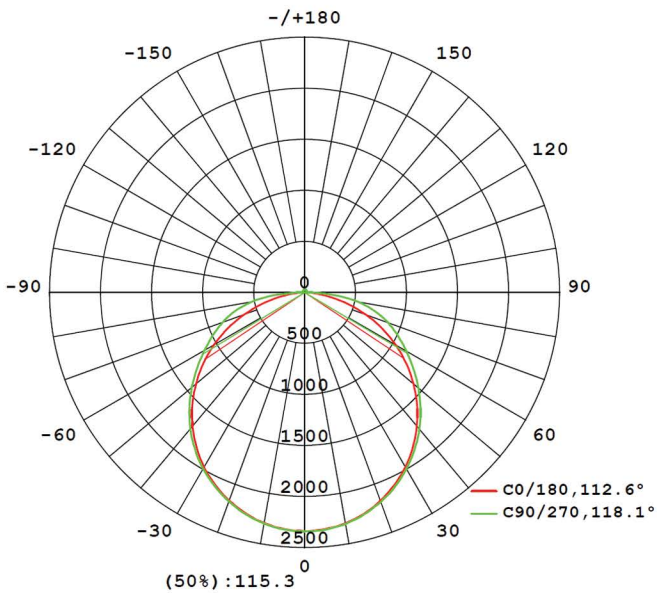
2x2 - 40W - 120 Volts - 3000K  
Efficiency : 134.11 Lumens/Watt



2x2 - 40W - 120 Volts - 5000K  
Efficiency : 149.52 Lumens/Watt



2x4 - 50W - 120 Volts - 3500K  
Efficiency : 151.83 Lumens/Watt



2x4 - 50W - 120 Volts - 6000K  
Efficiency : 146.87 Lumens/Watt

