

Catalog Number

Notes

2'x2' LED Volumetric Troffer

Application

The TCP LED lay-in troffers are high efficiency alternatives to T8 and T12 linear fluorescent troffers. Our intelligent high performance LED light engines and drivers deliver long life, consistent color, and superior lumen maintenance. Applications include offices, schools, retail locations, hospitals, and any other grid ceiling.

Construction

The TCP LED troffer is constructed of rugged cold-rolled steel, post painted with a highly diffuse white finish. End plates are designed to mount in a variety of grid ceiling types. The diffuser is a one piece impact resistant acrylic which provides a wide distribution.

Electrical

All electrical components are UL/cUL listed. TCP high efficiency drivers provide consistent power to ensure even lighting from the long life LEDs. Each driver is matched to a light engine to deliver LM80 rated performance for 50,000 hours. Full range dimming is optional.

Optics

The one piece acrylic diffuser conceals the LEDs while providing even light distribution across the luminaire. The smooth white reflector curves into the diffuser, creating volumetric illumination by softening and distributing the light evenly in a wide pattern. The curved design also softens the contrast between the luminaire and ceiling.

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Installation

Grid ceiling mounted. Edge design provides mounting into standard 1" and 9/16" tee bar or screw slot grids. Before installation, please consult your local ordinances and building codes for compliance.

Warranty

Five years against defects in manufacturing.

Listing

UL/cUL Listed - suitable for indoor applications.

DesignLights Consortium qualified

Туре





Catalog Ordering Matrix

Family Size **Voltage and Controls** Color Brand Lumen Package 120DIM - 120V. Line Dim (2013) 32 - 3200 Lumens (2' x 2') **30K** - 3000K TCP TRV - Volumetric 2 - 2' x 2' - 120V-277V 41K - 4100K UNI010 - 120V-277V. Control Dim 50K - 5000K UNIREM - 120V-277V, Remote Dim (2013)

- 347V

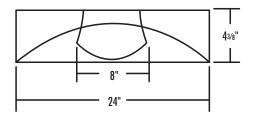
347





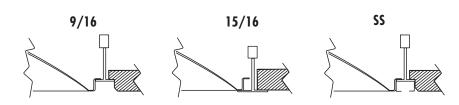


Dimensions and Mounting Data



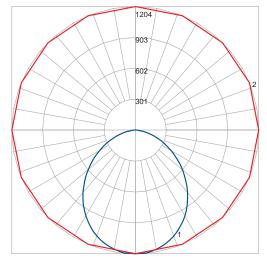
Length: 24" Width: 24" All dimensions are in inches unless otherwise specified.

Depth: 4-3/8"



Photometric Report

Luminous Intensity Distribution Diagram



Maximum Candela = 1204 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.)

Candela Distribution

Effectiv	ve Floo	r Cavi	ty Ref	lectan	ce 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	90	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
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	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

LED Energy Savings

System	Lamp Type	Ballast Factor	Input Watts	Watts Saved with LED		
2x2 LED 3200 Lumens	LED	1.00	38	-		
4 LAMP T12	20W T12	0.88	92	47		
4 LAMP T8	17W T8	0.88	60	38		
2 LAMP T12 U-Bend	40W T12	0.88	74	29		
2 LAMP T12 U-Bend	34W T12	0.88	63	18		
2 LAMP T8 U-Bend	32W T8	0.88	54	9		

Zonal Lumen Summary

Zone	Lumens	% Fixt.
0-30	927.03	27.3
0-40	1511.18	44.5
0-60	2649.26	77.9
0-90	3398.85	100
90-120	0	0
90-130	0	0
90-150	0	0
90-180	0	0
0-180	3398.85	100

Total Luminaire Efficiency = N.A.