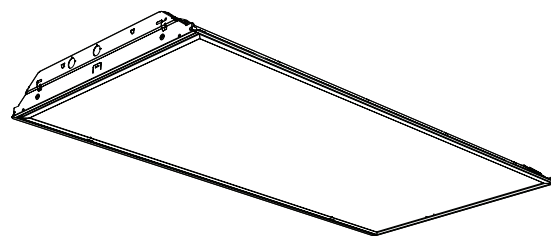


Offering the latest LED technology, in an economical troffer

T-GRID LED TROFFER 2X4



PHILIPS DAY-BRITE / PHILIPS CFI T-GRID LED TROFFER 2X4

The Philips Day-Brite / Philips CFI T-Grid LED Troffer is an energy efficient low profile luminaire offering excellent performance for general lighting applications such as offices, schools, healthcare, or retail. Featuring a frosted prismatic lens to enhance visual comfort, the T-Grid LED Troffer utilizes highly reliable and efficient Philips LED platform boards and dimmable driver, enabling market leading product efficiency in its category.

Project: _____

Location: _____

Catalog No: _____

Fixture Type: _____

Mfg: _____ Qty: _____

Notes: _____

Ordering Guide

example: 2TG38L840-4-FS-02F-UNV

Width	Family	Ceiling Type	Lumen Package	Color	Length	Door Frame	Lens	Voltage	Options
2 2'	T T-Grid LED Troffer	G Grid	32L 3200 nominal delivered lumens 38L 3800 nominal delivered lumens 43L 4300 nominal delivered lumens 48L 4800 nominal delivered lumens 54L 5400 nominal delivered lumens 74L 7400 nominal delivered lumens	840 80 CRI, 4000K 835 80 CRI, 3500K	4 4'	FS Flat Steel	02F Pattern 12, .100" nominal diffuse 50%	UNV Universal voltage, 120-277 volt 347	SDIM Step dimming driver F1 3/8" flex, 3 wire F2 18 gauge 3/8" flex, 4 wire EMLED¹ Integral emergency battery pack 1W 1-way gasket between lens & door frame 2W 1-way & gasket between door & housing 3W 2-way & gasket between housing & ceiling (field installed)

Accessories (order separately)

- **FKTG824** – Flange conversion kit 2x4
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" mounting

1. Not available for 74L-347V



PHILIPS
Day-Brite

PHILIPS
CFI

T-GRID LED TROFFER

2X4

Application

- High efficacy long life solid state lighting platform.
- General lighting distribution is excellent for ambient lighting.
- High CRI source provides excellent color rendering.
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.

Construction/Finish

- A quality low-profile troffer with specification features for NEMA "G" grid, NEMA "NFG" narrow face grid, NEMA "GR" grid regressed, or NEMA "F" flange ceiling types.
- 3" nominal housing depth, 3-3/16" maximum depth.
- Smooth rolled edges on all four sides for easy handling.
- Die-formed one piece housing includes stiffening embosses and provides increased rigidity.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Integral baffling system to prevent light leaks.
- 2 sets of integral grid clips (wraparound and fold-out) for maximum mounting flexibility.
- Integral wire hanger holes for independent wire suspension.
- Embosses with holes provided in housing end for screwing to T-bar if desired.
- 7/8" K.O.'s provided in each end cap for through wiring.
- Factory installed access plate in housing top includes 7/8" hole with rolled edge and 7/8" K.O.
- Carton includes integral carrying handle for easy handling.

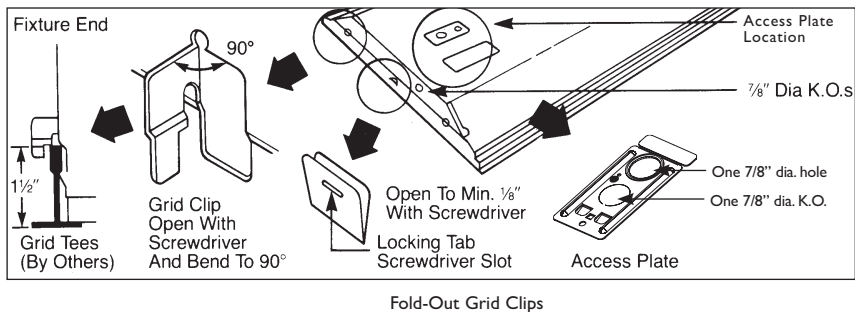
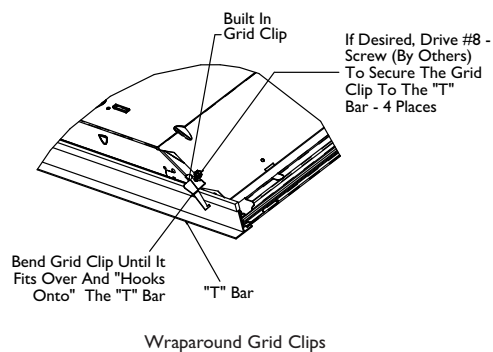
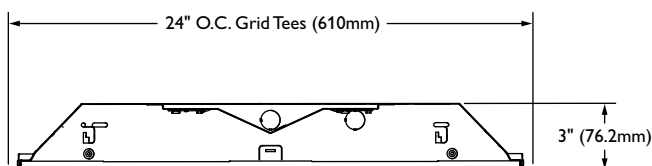
Electrical

- Standard 0–10V dimming.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Five-year luminaire limited warranty including LED boards and driver. See package for complete warranty information.
- High efficiency LEDs have 50,000 hour rated life (defined by testing at 70% lumen maintenance (L70)).

Enclosures

- ETL listed to UL and CSA standards, suitable for damp location.
- DLC Listed. Please check DLC Qualified Product List to confirm (www.designlights.org/QPL)
- Full "C" channel door frames for improved lens support and reduced shipping damage.
- Flat steel door frame features smooth rolled edges inside and outside.
- All door frames have mitered corners.
- All door frames use T-hinges and can be hinged and latched from either side.
- Opposable spring loaded latches are standard for easy operation and consistent retention.

Dimensions



T-GRID LED TROFFER 2X4

T-Grid LED Troffer 2x4, 4000K, 3200 nominal delivered lumens

LER – 110

Catalog No.	2TG32L840-4-FS-02F-UNV	Candlepower				Light Distribution			Average Luminance			
Test No.	32603	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.2	0	1365	1365	1365	0-30	1043	31.9	45	1691	1693	1698
Source	LED	5	1356	1359	1360	0-40	1671	51.1	55	1388	1379	1398
Lumens/Lamp	3269	15	1304	1303	1301	0-60	2717	83.1	65	1106	1075	1135
Input Watts	29.6	25	1190	1190	1185	0-90	3267	99.9	75	994	969	1110
		35	1008	1006	1003	0-180	3268	100.0	85	1105	1146	1356
		45	766	767	769							
		55	510	507	514							
		65	299	291	307							
		75	165	161	184							
		85	62	64	76							
Comparative yearly lighting energy cost per 1000 lumens – \$2.18 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary.												
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.												
Photometric values based on test performed in compliance with LM-79.												
Coefficients of Utilization												
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
pcc	80			70			50					
pw	70	50	30	70	50	30	50	30				
RCR												
0	118	118	118	115	115	115	111	111				
1	109	105	101	107	102	98	97	94				
2	100	92	85	96	90	83	86	81				
3	92	81	73	89	80	72	77	70				
4	83	72	65	81	71	64	68	61				
5	78	66	56	76	65	56	63	55				
6	71	59	51	69	58	50	56	50				
7	67	54	46	66	53	45	52	45				
8	63	50	40	60	48	40	47	40				
9	58	46	38	56	45	38	44	36				
10	55	41	34	54	41	34	40	34				

T-Grid LED Troffer 2x4, 4000K, 3800 nominal delivered lumens

LER – 107

Catalog No.	2TG38L840-4-FS-01-UNV	Candlepower				Light Distribution			Average Luminance				
Test No.	32602	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross	
S/MH	1.2	0	1593	1593	1593	0-30	1217	31.9	45	1973	1973	1984	
Source	LED	5	1581	1586	1588	0-40	1950	51.1	55	1620	1609	1630	
Lumens/Lamp	3814	15	1521	1521	1519	0-60	3170	83.1	65	1291	1254	1322	
Input Watts	35.5	25	1388	1389	1383	0-90	3812	99.9	75	1160	1129	1286	
		35	1176	1173	1172	0-180	3814	100.0	85	1289	1347	1590	
Comparative yearly lighting energy cost per 1000 lumens – \$2.24 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary.		Coefficients of Utilization											
		EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											
		pcc	80			70			50				
		pw	70	50	30	70	50	30	50	30			
		RCR											
		0	118	118	118	115	115	115	111	111			
		1	109	105	101	107	102	98	97	94			
		2	100	92	85	96	90	83	86	81			
3	92	81	73	89	80	72	77	70					
4	83	72	65	81	71	64	68	61					
5	78	66	56	76	65	56	63	55					
6	71	59	51	69	58	50	56	50					
7	67	54	46	66	53	45	52	45					
8	63	50	40	60	48	40	47	40					
9	58	46	38	56	45	38	44	36					
10	55	41	34	54	41	34	40	34					
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.													
Photometric values based on test performed in compliance with LM-79.													

T-GRID LED TROFFER 2X4

T-Grid LED Troffer 2x4, 4000K, 4300 nominal delivered lumens

LER – 106

Catalog No.	2TG43L840-4-FS-02F-UNV	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	32601	0	1808	1808	1808	0-30	1382	31.9	45	2284	2168	2075
S/MH	1.2	5	1796	1795	1790	0-40	2213	51.1	55	1879	1733	1647
Source	LED	15	1732	1714	1690	0-60	3599	83.1	65	1494	1317	1320
Lumens/Lamp	4331	25	1579	1556	1522	0-90	4328	99.9	75	1339	1189	1295
Input Watts	40.8	35	1349	1305	1259	0-180	4330	100.0	85	1585	1340	1222
Comparative yearly lighting energy cost per 1000 lumens – \$2.26 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.		45	1035	982	940	Coefficients of Utilization						
		55	690	637	605	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		65	404	357	357	pcc	80	70	50			
		75	222	197	215	pw	70	50	30	70	50	30
		85	89	75	68	RCR						
						0	118	118	118	115	115	115
						1	109	105	101	107	102	98
						2	100	92	85	96	90	83
						3	92	81	73	89	80	72
						4	83	72	65	81	71	64
						5	78	66	56	76	65	56
						6	71	59	51	69	58	50
						7	67	54	46	66	53	45
						8	63	50	40	60	48	40
						9	58	46	38	56	45	38
						10	55	41	34	54	41	34

T-Grid LED Troffer 2x4, 4000K, 4800 nominal delivered lumens

LER – 105

Catalog No.	2TG48L840-4-FS-02F-UNV	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	32599	0	1799	1799	1799	0-30	1516	31.9	45	2457	2458	2467
S/MH	1.2	5	1787	1791	1792	0-40	2427	51.1	55	2015	2002	2028
Source	LED	15	1717	1715	1712	0-60	3946	83.2	65	1606	1557	1644
Lumens/Lamp	4746	25	1559	1560	1553	0-90	4743	99.9	75	1441	1399	1612
Input Watts	45	35	1318	1310	1307	0-180	4746	100.0	85	1608	1652	1959
Comparative yearly lighting energy cost per 1000 lumens – \$2.29 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.		45	996	991	996	Coefficients of Utilization						
		55	663	655	667	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		65	394	379	401	pcc	80	70	50			
		75	217	208	236	pw	70	50	30	70	50	30
		85	80	79	93	RCR						
						0	118	118	118	115	115	115
						1	109	105	101	107	102	98
						2	100	92	85	96	90	83
						3	92	81	73	89	80	72
						4	84	72	65	81	71	64
						5	78	66	56	76	65	56
						6	71	59	51	69	58	50
						7	67	54	46	66	53	45
						8	63	50	40	60	48	40
						9	58	46	38	56	45	38
						10	55	41	34	54	41	34

T-GRID LED TROFFER 2X4

T-Grid LED Troffer 2x4, 4000K, 5400 nominal delivered lumens

LER – 102

Catalog No. 2TG54L840-4-FS-02F-UNV Test No. 32604 S/MH 1.2 Source LED Lumens/Lamp 5405 Input Watts 53.2	Candlepower				Light Distribution			Average Luminance			
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Comparative yearly lighting energy cost per 1000 lumens – \$2.35 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	0	2258	2258	2258	0-30	1724	31.9	45	2792	2792	2808
	5	2241	2248	2251	0-40	2761	51.1	55	2297	2279	2315
	15	2156	2155	2152	0-60	4490	83.1	65	1834	1779	1880
	25	1965	1967	1958	0-90	5402	99.9	75	1648	1601	1843
	35	1664	1659	1657	0-180	5405	100.0	85	1841	1898	2260
	45	1265	1265	1272	Coefficients of Utilization						
	55	844	838	851	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
	65	497	482	509	pcc	80	70	50			
	75	273	265	306	pw	70	50	30	70	50	30
	85	103	106	126	RCR						

T-Grid LED Troffer 2x4, 4000K, 7400 nominal delivered lumens

LER – 91

Catalog No. 2TG74L840-4-FS-02F-UNV Test No. 32652 S/MH 1.2 Source LED Lumens/Lamp 7470 Input Watts 82	Candlepower					Light Distribution			Average Luminance			
	Angle	End	45	Cross	Back-45	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Comparative yearly lighting energy cost per 1000 lumens – \$2.64 based on 3000 hrs. and \$.08 pwr KWH. Actual rates and usage may vary. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	0	3117	3117	3117	3117	0-30	2382	31.9	45	3860	3859	3886
	5	3097	3104	3107	3104	0-40	3815	51.1	55	3166	3145	3204
	15	2980	2976	2972	2976	0-60	6205	83.1	65	2530	2456	2604
	25	2713	2716	2706	2716	0-90	7465	99.9	75	2276	2215	2546
	35	2304	2294	2291	2294	0-180	746	100.0	85	2536	2637	3156
	45	1749	1748	1760	1748	Coefficients of Utilization						
	55	1164	1156	1177	1156	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
	65	685	665	705	665	pcc	80	70	50			
	75	377	367	422	367	pw	70	50	30	70	50	30
	85	142	147	176	147	RCR						



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