



T-Grid LED Troffer

LED technology in an economical troffer



PHILIPS
Day-Brite

PHILIPS
CFI

T-Grid LED Troffer

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.



Key Features:

- Category leading energy efficiency (up to 110 LPW)
- Easy access from below for LED board and driver maintenance
- Standard 0–10V dimming, step dimming and integral emergency options add even more application flexibility
- Frosted prismatic lens minimizes brightness and provides better visual comfort
- Available in multiple lumen packages ranging from 2000–7400 lumens (depending on configuration)
- High CRI (80+)
- 3500K and 4000K color temperatures
- Minimum life rating of 50,000 hours (L70)
- 5 year limited warranty covers luminaire as well as board and driver*

Philips Day-Brite/Philips CFI T-Grid LED Troffer is available in 1'x4**, 2'x2' and 2'x4' configurations. The lightweight design is easy to install and allows for easy access to the LEDs from below the ceiling.



Office Environments	Education Facilities	Hospitals/Care Homes	Other
Open Plan Offices	Classrooms	Patient Rooms	Retail
Cubicles	Hallways	Corridors	Supermarkets
Individual Offices	Cafeterias	Laboratories	Storage Facilities
Meeting/Conference Rooms	Libraries	Lobbies	Banks
			Convention Centers
			Convenience Stores/Gas Stations

* Please visit www.philips.com/warranties for full details

** 1x4 – Available from September 2014



Ordering Guide 2x2

example: 2TG38L840-2-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	20L 2000 nominal delivered lumens 30L 3000 nominal delivered lumens 38L 3800 nominal delivered lumens 45L 4500 nominal delivered lumens	840 80 CRI, 4000K 835 80 CRI, 3500K	2 2'	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, 18 gauge F2 3/8" flex, 4 wire, 18 gauge EMLED² Integral emergency battery pack 1W 1-way gasket between lens & door frame 2W 1W & Gasket between door & housing 3W 2W & Gasket between housing & Ceiling (field installed)

Accessories (order separately) • **FKTG822** – Flange conversion kit 2x2 • **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting

Ordering Guide 2x4

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, 18 gauge F2 3/8" flex, 4 wire, 18 gauge 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

Open Area 2x2:

Sample area:
24' wide x 42' long x 9' ceiling
Reflectances:
80x50x20
CalculationGrid:
2.5 feet
Maintenance Factor:
0.85LLD, 0.94LDD,0.799LLF

Spacing	Number of Luminaires	Luminaire Catalog Number	Maintained Average Illumination	Max./Min.	Input Power/Lumen	Watts/ Sq. Foot
Open Area						
8 x 8'	15	2TG20L8402UNV	25.34 fc	2.70	23	0.342
		2TG30L8402UNV	33.17 fc	2.69	32.7	0.487
		2TG33L8402UNV	40.91 fc	2.70	43.5	0.647
		2TG45L8402UNV	50.40 fc	2.71	51.5	0.766
8' x 10'	12	2TG20L8402UNV	20.60 fc	3.09	23	0.274
		2TG30L8402UNV	26.96 fc	3.07	32.7	0.389
		2TG33L8402UNV	33.26 fc	3.07	43.5	0.518
		2TG45L8402UNV	40.98 fc	3.09	51.5	0.613
10' x 10'	15	2TG20L8402UNV	19.44 fc	2.50	23	0.274
		2TG30L8402UNV	25.43 fc	2.50	32.7	0.389
		2TG33L8402UNV	31.38 fc	2.50	43.5	0.518
		2TG45L8402UNV	38.67 fc	2.53	51.5	0.613

Corridor 2x2:

Sample area:
5' wide x 102' long x 9' ceiling
Reflectances:
80x50x20
CalculationGrid:
2.5 feet
Maintenance Factor:
0.85LLD, 0.94LDD,0.799LLF

Spacing	Number of Luminaires	Luminaire Catalog Number	Maintained Average Illumination	Max./Min.	Input Power/Lumen	Watts/ Sq. Foot
Corridor						
12'	9	2TG20L8402UNV	17.37 fc	2.13	23	0.406
		2TG30L8402UNV	22.73 fc	2.13	32.7	0.577
		2TG38L8402UNV	28.04 fc	2.13	43.5	0.768
		2TG45L8402UNV	34.56 fc	2.15	51.5	0.909
14'	8	2TG20L8402UNV	15.15 fc	2.85	23	0.361
		2TG30L8402UNV	19.83 fc	2.86	32.7	0.513
		2TG38L8402UNV	24.48 fc	2.84	43.5	0.682
		2TG45L8402UNV	30.14 fc	2.88	51.5	0.808
16'	7	2TG20L8402UNV	13.33 fc	3.84	23	0.316
		2TG30L8402UNV	17.45 fc	3.87	32.7	0.449
		2TG38L8402UNV	21.53 fc	3.87	43.5	0.597
		2TG45L8402UNV	26.52 fc	3.90	51.5	0.707

Open Area 2x4:

Sample area:
24' wide x 42' long x 9' ceiling
Reflectances:
80x50x20
CalculationGrid:
2.5 feet
Maintenance Factor:
0.85LLD, 0.94LDD,0.799LLF

Spacing	Number of Luminaires	Luminaire Catalog Number	Maintained Average Illumination	Max./Min.	Input Power/Lumen	Watts/ Sq. Foot
Open Area						
8' x 8'	15	2TG32L8404UNV	35.74 fc	2.63	29.6	0.440
		2TG43L8404UNV	47.34 fc	2.71	40.8	0.607
		2TG38L8404UNV	41.71 fc	2.63	35.5	0.528
		2TG48L8404UNV	51.90 fc	2.64	45	0.670
		2TG54L8404UNV	59.39 fc	2.74	53.2	0.792
		2TG74L8404UNV	81.70 fc	2.63	82	1.220
8' x 10'	12	2TG32L8404UNV	29.24 fc	2.98	29.6	0.352
		2TG38L8404UNV	34.13 fc	2.98	35.5	0.423
		2TG43L8404UNV	38.78 fc	3.08	40.8	0.486
		2TG48L8404UNV	42.48 fc	2.98	45	0.536
		2TG54L8404UNV	48.47 fc	3.17	53.2	0.633
		2TG74L8404UNV	66.82 fc	2.99	82	0.976
10' x 10'	12	2TG32L8404UNV	27.36 fc	2.45	29.6	0.352
		2TG38L8404UNV	31.93 fc	2.45	35.5	0.423
		2TG43L8404UNV	36.25 fc	2.46	40.8	0.486
		2TG48L8404UNV	39.74 fc	2.45	45	0.536
		2TG54L8404UNV	45.44 fc	2.65	53.2	0.633
		2TG74L8404UNV	62.52 fc	2.45	82	0.976

Corridor 2x4:

2x4 sample area:

5' wide x 102' long x 9' ceiling

Reflectances:

80x50x20

CalculationGrid:

2.5 feet

Maintenance Factor:

0.85LLD, 0.94LDD, 0.799LLF

Spacing	Number of Luminaires	Luminaire Catalog Number	Maintained Average Illumination	Max./Min.	Input Power/Lumen	Watts/ Sq. Foot
Corridor						
12'	9	2TG32L8404UNV	24.18 fc	1.95	29.6	0.522
		2TG38L8404UNV	28.21 fc	1.95	35.5	0.626
		2TG43L8404UNV	32.06 fc	1.95	40.8	0.720
		2TG48L8404UNV	35.11 fc	1.95	45	0.794
		2TG54L8404UNV	41.13 fc	2.13	53.2	0.939
		2TG74L8404UNV	55.23 fc	1.95	82	1.447
14'	8	2TG32L8404UNV	21.04 fc	2.58	29.6	0.464
		2TG38L8404UNV	24.55 fc	2.58	35.5	0.557
		2TG43L8404UNV	27.87 fc	2.59	40.8	0.640
		2TG48L8404UNV	30.57 fc	2.59	45	0.706
		2TG54L8404UNV	35.77 fc	2.86	53.2	0.835
		2TG74L8404UNV	48.06 fc	2.59	82	1.286
16'	7	2TG32L8404UNV	18.68 fc	3.53	29.6	0.406
		2TG38L8404UNV	21.79 fc	3.51	35.5	0.487
		2TG43L8404UNV	24.75 fc	3.52	40.8	0.560
		2TG48L8404UNV	27.12 fc	3.51	45	0.618
		2TG54L8404UNV	31.71 fc	3.98	53.2	0.730
		2TG74L8404UNV	42.65 fc	3.52	82	1.125



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