Day-Brite CFI

by signify

Recessed

T-Grid LED troffer 1x4

2200, 3200, 4200 or 5000 lumens

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / 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 efficiency in its category.

Ordering guide

Example: 1TG32L840-4-FS-02F-UNV-DIM

Width	Family	Ceiling Type	Lumen Package	Color Temp.	Length	Door Frame	Lens	Voltage	Driver	Options
1	T	G		–	4 –	–	–	–	–	
1 1'	**T** T-Grid LED troffer	**G** Grid	**22L** 2200 nominal delivered lumens **32L** 3200 nominal delivered lumens **42L** 4200 nominal delivered lumens **50L** 5000 nominal delivered lumens	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K	**4** 4'	**FS** Flat Steel	**02F** Pattern 12, .100" nominal diffuse 50% **12F** DB 12 .125" nominal diffuse 50% **19F** DB 19 .156" nominal diffuse 50%	**UNV** Universal Voltage 120-277V **347** 347V	**DIM** 0-10V dimming **SDIM** Step dimming to 40% input power	**F1** 3/8" flex, 3 wire, 18 gauge 6' **F2** 3/8" flex, 4 wire, 18 gauge 6' **F1/D** 3/8" twin flex, 3 wire, 18 gauge 6', for dimmable luminaires **F2/5W** 3/8" single flex, 5 wire, 18 gauge 6', for dimmable luminaires **EMLED**[1] Integral emergency battery pack **1W** 1-way gasket between lens & door frame (not avail. for RA door frame) **2W** 1-way & gasket between door frame & housing **3W** 2-way & gasket betweem housing & ceiling (field installed) **GLR** Fusing, fast blow **CHIC** Chicago Plenum rated **DSC** Quick driver disconnect

Footnotes

1 1100 nominal lumens delivered in DC mode

Accessories (order separately)

- **FMA14** – 1'x4' "F" mounting frame for NEMA "F" mounting
- **GCP** – Grid clip pack (1'x4')

1TG T-Grid LED troffer 1x4

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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 a light source.

Construction/finish

- Quality recessed troffer for the following “NEMA” ceiling types: NEMA “G”-Grid, NEMA “NFSG”-Narrow Faced Slot Grid, NEMA “GR”-Grid Regressed, NEMA “NFG”-Narrow Faced Grid.
- Field assembled and installed “F” mounting Frame adapts fixture for use in NEMA “F” ceilings requiring flanges.
- Housing is constructed of pre-painted steel.
- Troffer body die-formed CR steel with reinforcing ribs for rigidity.
- 7/8 K.O.'s provided in each end cap and quick wire access plate in housing top with two 7/8 K.O.'s provided.
- Snap on wireway cover.
- T-bar clips are not integral to the luminaire, and must be ordered separately.
- Low profile body minimizes clearance required.
- All units have wire hanger tabs for independent wire suspension.

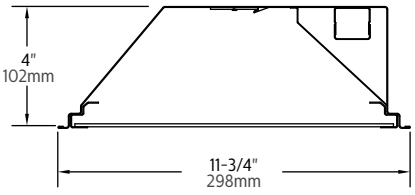
Electrical

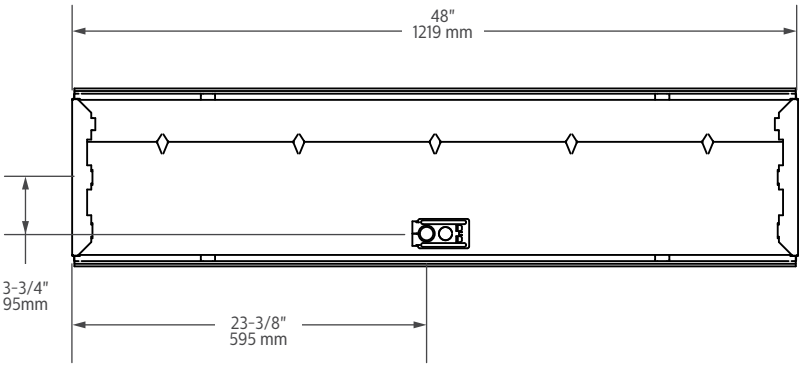
- Standard 0-10V dimming.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Five-year luminaire limited warranty including LED boards and driver. Visit www.philips.com/warranties for complete warranty information.
- High efficiency LEDs have 50,000 hour rated life (defined by testing at 70% lumen maintenance (L70)), based on 25°C ambient operating temperature.
- UL listed, suitable for damp locations.
- No exposed internal wiring.
- cETLus listed to UL and CSA standards, suitable for damp location.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Enclosure

- Flat steel door frame has mitered corners.
- Hinged and latched (from either side) door frame.
- Mechanically designed interlocks eliminate light leaks.
- White (standard) or black (optional) door frames available.
- Diffuser is clear color stabilized 100% prismatic acrylic.

Dimensions





1TG T-Grid LED troffer 1x4

2200, 3200, 4200 or 5000 lumens

Photometry

1x4 T-Grid LED troffer, 2200 nominal delivered lumens — LER – 106

Catalog No.	1TG22L840-4-FS-02F-UNV
Test No.	33591
S/MH	1.1
Lamp Type	LED
Lumens	2284
Input Watts	21.6

Comparative yearly lighting energy cost per 1000 lumens – **$2.26** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the 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.

Candlepower

Angle	End	45	Cross
0	1055	1055	1055
5	1045	1049	1051
15	998	1000	996
25	897	886	873
35	744	715	685
45	558	511	470
55	372	324	294
65	224	188	178
75	131	106	104
85	51	37	36

Light Distribution

Degrees	Lumens	% Luminaire
0-30	789	34.5
0-40	1235	54.1
0-60	1924	84.3
0-90	2283	100.0

Average Luminance

Angle	End	45°	Cross
45	2672	2448	2252
55	2197	1911	1733
65	1794	1503	1424
75	1709	1385	1356
85	1981	1425	1397

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	110	105	101	107	103	98	98	95
2	101	93	86	97	91	84	88	82
3	93	82	75	90	81	73	78	71
4	84	73	66	82	72	65	69	64
5	79	67	58	77	66	57	64	56
6	72	60	52	71	59	52	57	51
7	68	56	46	67	55	46	53	46
8	64	51	42	61	50	42	48	41
9	59	46	39	58	46	39	45	39
10	56	44	35	55	42	35	41	35

1x4 T-Grid LED troffer, 3200 nominal delivered lumens — LER – 104

Catalog No.	1TG32L840-4-FS-02F-UNV
Test No.	33592
S/MH	1.1
Lamp Type	LED
Lumens	3163
Input Watts	30.4

Comparative yearly lighting energy cost per 1000 lumens – **$2.31** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the 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.

Candlepower

Angle	End	45	Cross
0	1460	1460	1460
5	1447	1452	1455
15	1380	1384	1378
25	1240	1228	1208
35	1029	992	948
45	772	710	651
55	515	449	406
65	310	261	246
75	181	147	143
85	70	51	49

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1092	34.5
0-40	1709	54.1
0-60	2664	84.2
0-90	3161	100.0

Average Luminance

Angle	End	45°	Cross
45	3698	3398	3118
55	3040	2650	2399
65	2483	2090	1970
75	2371	1925	1877
85	2730	1990	1909

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	110	105	101	107	103	98	98	95
2	101	93	86	97	91	84	88	82
3	93	82	75	90	81	73	78	71
4	84	73	66	82	72	65	69	64
5	79	67	58	77	66	57	64	56
6	72	60	52	71	59	52	57	51
7	68	56	46	67	55	46	53	46
8	64	51	42	61	50	42	48	41
9	59	46	39	57	46	39	45	39
10	56	44	35	55	42	35	41	34

1TG T-Grid LED troffer 1x4

2200, 3200, 4200 or 5000 lumens

Photometry

1x4 T-Grid LED troffer, 4200 nominal delivered lumens — LER – 101

Catalog No.	1TG42L840-4-FS-02F-UNV
Test No.	33599
S/MH	1.1
Lamp Type	LED
Lumens	4404
Input Watts	43.6

Comparative yearly lighting energy cost per 1000 lumens – **$2.38** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the 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.

Candlepower

Angle	End	45	Cross
0	2030	2030	2030
5	2011	2020	2023
15	1919	1926	1918
25	1727	1709	1682
35	1432	1379	1321
45	1076	985	909
55	717	625	567
65	432	362	344
75	253	205	201
85	98	71	69

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1518	34.5
0-40	2378	54.0
0-60	3708	84.2
0-90	4404	100.0

Average Luminance

Angle	End	45°	Cross
45	5151	4719	4352
55	4233	3691	3348
65	3465	2904	2754
75	3304	2676	2624
85	3806	2750	2680

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	115	115	115	111	111	
1	110	105	101	107	103	98	98	95
2	101	93	86	97	91	84	88	82
3	93	82	75	90	81	73	78	71
4	84	73	66	82	72	65	69	64
5	79	67	58	77	66	57	64	56
6	72	60	52	70	59	52	57	51
7	68	56	46	67	55	46	53	46
8	64	51	42	61	50	42	48	41
9	59	46	39	57	46	39	45	39
10	56	44	35	55	42	35	41	34

1x4 T-Grid LED troffer, 5000 nominal delivered lumens — LER – 98

Catalog No.	1TG50L840-4-FS-02F-UNV
Test No.	33596
S/MH	1.1
Lamp Type	LED
Lumens	5078
Input Watts	51.9

Comparative yearly lighting energy cost per 1000 lumens – **$2.45** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the 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.

Candlepower

Angle	End	45	Cross
0	2337	2337	2337
5	2315	2325	2329
15	2209	2217	2208
25	1986	1968	1935
35	1650	1590	1522
45	1238	1140	1046
55	827	723	653
65	498	420	396
75	291	237	231
85	113	83	80

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1749	34.4
0-40	2740	54.0
0-60	4275	84.2
0-90	5075	100.0

Average Luminance

Angle	End	45°	Cross
45	5929	5457	5009
55	4880	4265	3853
65	3992	3368	3171
75	3813	3099	3021
85	4403	3210	3089

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	110	105	101	107	103	98	98	95
2	101	93	86	97	91	84	88	82
3	93	82	75	90	81	73	78	71
4	84	73	66	82	72	65	69	64
5	79	67	58	77	66	57	64	56
6	72	60	52	70	59	52	57	51
7	68	56	46	67	55	46	53	46
8	64	51	42	61	50	42	48	41
9	59	46	39	57	46	39	45	38
10	56	44	35	55	42	35	41	34

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