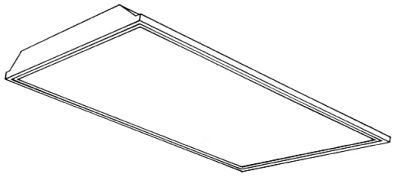
Day-Brite CFI by Signify

Recessed

SP troffer 2x4

T5, T5HO, or T8



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Day-Brite / CFI SP troffer is a specification grade recessed lensed luminaire and offers many premium options.

Ordering guide

Example: 2SPG232-FS01-UNV-1/2-EBLHE-LPT835HL

Width	Family	Ceiling Type	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Door Finish	Voltage	Options
2	SP			–	FS –		–	–	
2 2'	**SP** SP Troffer	**G** Grid **F** Flange	**2** **3** **4**	**28** 28WT5 (46") **32** 32WT8 (48") **54HO** 54WT5HO (46")	**FS** Flat Steel	**01** Pattern 12 prismatic acrylic **12** K-12, .125" nominal **19** K-19, .156" nominal **21** Pattern 12, .125" nominal **30** 1/2"x1/2"x1/2" silver polystyrene louver **34** 1-1/2"x1-1/2"x1" silver polystyrene louver **52** 3/4"x3/4"x1/2" silver polystyrene louver	**BLANK** White Door **B** Black Door	**120** **277** **347** **UNV** Universal Voltage 120-277V	**1/2** One 2-lamp ballast **1/3** One 3-lamp ballast **1/21** 2-lamp & 1-lamp ballasts **1/4** One 4-lamp ballast **2/2** Two 2-lamp ballasts **EB** Electronic ballast, <10% THD, std. ballast factor **EB10R** T8 electronic ballast, program rapid start, <10% THD **EBHE** T8 electronic ballast, high efficiency, std. ballast factor **EBLHE** T8 electronic ballast, high efficiency, low ballast factor **EBHHE** T8 electronic ballast, high efficiency, high ballast factor **EBSD** T8 electronic step dimming ballast, .88 ballast factor **EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control **EBDX** Advance Mark 10 dimming ballast, phase control **EBD** Electronic dimming ballast, customer specified **E1** B100 emerg. ballast, T8, 350-450 lumens, 120/277V **E1CAN** B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V **E7** B60 emerg. ballast, T8, 600-700 lumens, 120/277V **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E5CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV **E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V **F1** 3/8" flex 3 wire, 18 gauge 6' **F2** 3/8" flex 4 wire, 18 gauge 6' **F2/5W** 3/8" flex, 5 wire 18 gauge 6' **GLR** Fusing, fast blow **PAF** Housing painted after fabrication **LPT830** Installed T8/T5/T5HO lamps, 80+ CRI, 3000K **LPT835** Installed T8/T5/T5HO lamps, 80+ CRI, 3500K **LPT841** Installed T8/T5/T5HO lamps, 80+ CRI, 4100K

LPT830HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3000K
LPT835HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K
LPT841HL Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K
1W 1-way gasketing, between lens & door frame (not avail. w/RA door)
2W 2-way gasketing, 1W + gasketing between door frame & housing
3W 3-way gasketing, 2W + gasketing for field installation between housing & ceiling

Accessories (order separately)

- **FKSP24** Flange conversion kit 2'x4'
- **FMA24** 2'x4' "F" mounting frame for NEMA "F" mounting

2SP SP troffer recessed 2x4

T5, T5HO or T8

Construction/Finish

- Specification 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, NEMA “F”-Flange.
- Housing and door frame have smooth edges for easy handling.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- One piece unitized body including end plates for added rigidity.
- 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 grid clips built into luminaire end plates, no extra parts required.
- Low profile body minimizes clearance required.
- All units have wire hanger tabs for independent wire suspension.
- Twist lock lampholders standard.

Electrical

- cULus listed for damp locations.
- Self-contained fluorescent emergency power packs can be incorporated.
- No exposed internal wiring.
- Twist lock lampholders are standard for positive lamp retention.

Enclosure

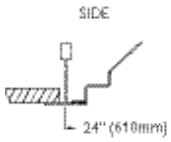
- Mitered corner door frames.
- Door frames can be hinged and latched from either side.
- White (standard) or black (optional) door frames available.
- Door frames utilize “T” hinges.
- White spring loaded latches are standard.

Ceiling configuration

2 SP G 2 32

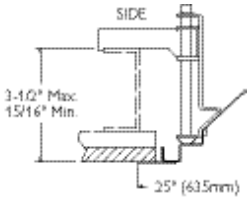
Ceiling type

G = Grid (NEMA G)



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 48" spacing.

F = Flange (NEMA F)



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3-1/2" max. and 15/16" min.

Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, “Contain Mercury” and/or the symbol “HG”. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

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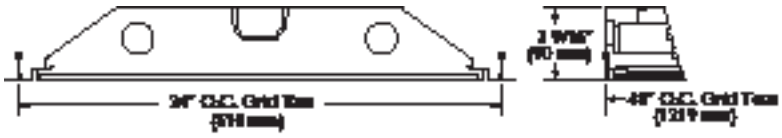
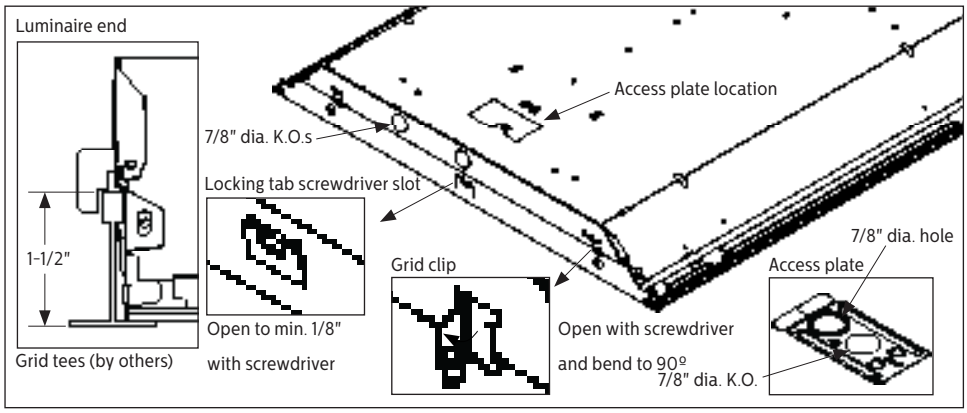
Dimensions





Photometry

SP 2x4 2 Lamp T8 **Efficiency – 83.8%** **LER – 73** **TER – 64**

Catalog No.	2SPG232-FS01-1/2-EB
Test No.	26375P
S/MH	1.4
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.87
Input Watts	57

Comparative yearly lighting energy cost per 1000 lumens – **$3.29** 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.

Candlepower

Angle	End	45	Cross
0	1749	1749	1749
5	1756	1747	1735
10	1734	1734	1731
15	1695	1712	1722
20	1643	1678	1707
25	1580	1632	1684
30	1468	1569	1651
35	1359	1486	1599
40	1226	1376	1506
45	1076	1226	1352
50	905	1048	1142
55	713	841	902
60	541	627	681
65	397	434	491
70	298	294	343
75	230	204	232
80	173	152	155
85	96	91	88

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1401	24.6	29.3
0-40	2326	40.8	48.7
0-60	3996	70.1	83.6
0-90	4778	83.8	100.0

Average Luminance

Angle	End	45°	Cross
45	2331	2656	2928
55	1904	2246	2409
65	1439	1573	1779
75	1361	1207	1373
85	1687	1599	1546

Coefficients of Utilization

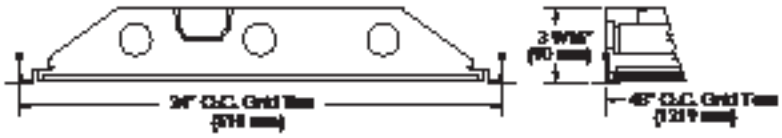
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	100	100	100	96	96	96	93	93
1	92	88	83	89	85	82	81	80
2	83	77	71	81	76	70	72	68
3	77	68	61	75	67	60	64	58
4	69	60	54	68	59	53	57	52
5	65	54	46	63	53	46	52	46
6	59	48	41	57	47	40	46	40
7	56	45	36	54	44	36	42	35
8	52	40	34	51	40	33	39	33
9	47	36	30	46	36	29	35	29
10	45	34	28	44	34	28	33	27

2SP SP troffer recessed 2x4

T5, T5HO or T8

Dimensions



Photometry

SP 2x2 3 Lamp F32T8 **Efficiency – 83.0%** **LER – 77** **TER – 67**

Catalog No.	2SPG332-FS01-1/3-EB
Test No.	29000
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2800
Ballast Factor	0.88
Input Watts	81

Comparative yearly lighting energy cost per 1000 lumens – **$3.12** 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.

Candlepower

Angle	End	45	Cross
0	2774	2774	2774
5	2781	2762	2753
10	2748	2746	2742
15	2689	2699	2719
20	2605	2639	2671
25	2489	2555	2591
30	2340	2418	2474
35	2150	2239	2318
40	1925	2011	2109
45	1648	1742	1847
50	1358	1455	1548
55	1106	1173	1254
60	867	867	954
65	644	586	679
70	466	370	500
75	341	256	395
80	245	199	297
85	130	121	156

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2198	25.7	31.0
0-40	3594	42.0	50.7
0-60	5980	69.9	84.3
0-90	7093	83.0	100.0

Average Luminance

Angle	End	45°	Cross
45	3421	3616	3834
55	2830	3002	3209
65	2237	2035	2358
75	1934	1452	2240
85	2189	2038	2627

Coefficients of Utilization

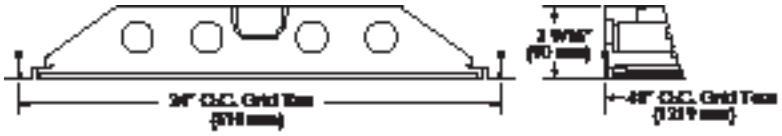
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	98	98	98	95	95	95	92	92
1	91	86	83	89	84	81	81	79
2	82	77	70	81	75	69	71	68
3	76	68	61	73	67	60	64	58
4	69	60	54	68	59	53	57	52
5	65	55	46	63	54	46	52	46
6	59	48	41	57	48	41	46	40
7	56	45	38	54	44	36	42	36
8	52	40	34	51	40	34	39	33
9	48	38	30	46	36	30	35	29
10	46	34	28	44	34	28	34	28

2SP SP troffer recessed 2x4

T5, T5HO or T8

Dimensions



Photometry

SP 2x2 3 Lamp F32T8 **Efficiency – 78.7%** **LER – 74** **TER – 65**

Catalog No.	2SPG432-FS01-1/4-EB
Test No.	26374
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	0.87
Input Watts	106

Comparative yearly lighting energy cost per 1000 lumens – **$3.20** 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.

Candlepower

Angle	End	45	Cross
0	3385	3385	3385
5	3404	3377	3356
10	3359	3348	3345
15	3285	3301	3323
20	3179	3236	3281
25	3037	3130	3203
30	2858	2998	3110
35	2629	2814	2946
40	2369	2571	2719
45	2080	2288	2412
50	1741	1914	2017
55	1383	1538	1613
60	1043	1141	1217
65	758	803	875
70	564	539	615
75	438	374	420
80	330	279	282
85	186	166	162

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2695	23.6	30.0
0-40	4443	39.0	49.5
0-60	7528	66.0	83.9
0-90	8975	78.7	100.0

Average Luminance

Angle	End	45°	Cross
45	4505	4956	5224
55	3693	4107	4307
65	2747	2910	3171
75	2592	2213	2485
85	3269	2917	2847

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	93	93	93	92	92	92	86	86
1	85	82	79	83	81	78	77	75
2	79	72	68	77	70	66	68	64
3	71	64	57	69	63	56	60	56
4	66	56	51	65	56	50	54	48
5	60	51	45	59	51	44	48	42
6	56	46	40	55	46	39	44	39
7	53	41	34	51	41	34	40	34
8	48	39	32	47	38	32	36	30
9	46	34	28	45	34	28	34	28
10	42	33	27	41	32	26	30	26

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