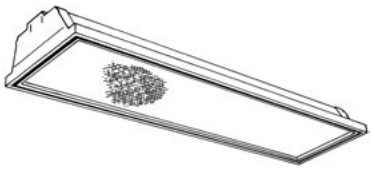
Day-Brite CFI by Signify

Special Application

Designer clean room troffer 1x4

T8, T5, or T5HO



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Day-Brite / CFI Designer clean room troffer is a recessed luminaire tested to federal standard 209E and desiged for use with 1-1/2" face width inverted "T" bar ceilings.

Ordering guide

Example: 1DCLG232-FA21-UNV-1/2-EBLHE-LPT835HL

Width	Family	Ceiling Type*	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Voltage	Options
1	DCL	G		–	FA	–	–	
1 1'	**DCL** Designer clean room	**G** Grid *Flange configuration can be manufactured but will not be Clean Room rated due to openings in housing to access swing-arm jack screws. The use of FMA "F" mounting kits (sealed to the luminaire and ceiling is recommended for NEMA "F" applications.	**1** **2** **3** (except 54HO)	**28** 28WT5 (46") **32** 32WT8 (48") **54HO** 54WT5HO (46")	**FA** Flat Aluminum	**12** K-12, .125" nominal **19** K-19, .156" nominal **21** Pattern 12, .125" nominal	**120** **277** **347** **UNV Universal Voltage 120-277V**	**1/1** One 1-lamp ballast **1/2** One 2-lamp ballast **1/3** One 3-lamp ballast **1/21** 2-lamp & 1-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 **E5-CAN** 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" single flex, 5 wire 18 gauge 6' for dimmable luminaires **GLR** Fusing, fast blow **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 **2W** 2-way gasketing, 1W + gasketing between door frame & housing

Accessories (order separately)

- **FMA14** – 1'x4' "F" mounting frame for NEMA "F" mounting (Seal to luminaire and ceiling)

1DCL Designer clean room troffer 1x4

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Application

- Premium quality recessed static troffer for use in:
  – Grid inverted T (NEMA “G”) ceilings.

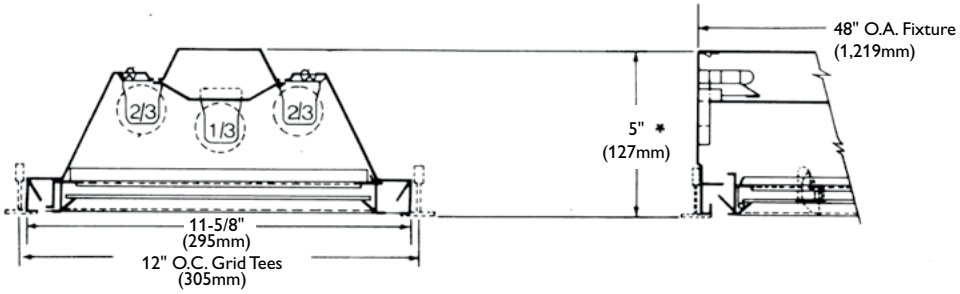
Construction/Finish

- Meets federal standard No. 209E for class 100,000, 10,000 and 1,000.
- Gasketed housing limits the passage of particle matter through the luminaire.
- Designer Clean Room is NOT designed for rigorous pharmaceutical grade clean room applications.
- Housing is gasketed to form a barrier between plenum and inside of luminaire. Door frame and lens are not sealed.
- Floating door (with black reveal) standard.
- Hinge and latch extruded aluminum door allows relamping and servicing from below the ceiling.
- Standard lens is DB-21, 1/8" nominal thickness prismatic acrylic.
- Designed for use with 1-1/2" max. face width inverted T-Bars, 1-1/2" max. height. Also suitable for use with standard (1" wide) T-bars. Not suitable for use with 2" wide T-bars.
- Installing contractor is responsible for sealing luminaire to “T” Bar with clear silicone sealant.
- Housing is painted after fabrication with white polyester powder finish.

Electrical

- cULus listed for wet location for covered ceiling use only.

Dimensions



Photometry

1' x 2' 2 Lamp **Efficiency – 66.8%** **LER – 60** **TER – 55**

Catalog No.	1DCLG232-FA21-1/2-EB
Test No.	15551
S/MH	1.1
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	0.92
Input Watts	59

Comparative yearly lighting energy cost per 1000 lumens – **$4.00** 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	1909	1909	1909
5	1904	1896	1895
10	1876	1866	1857
15	1830	1810	1785
20	1762	1715	1676
25	1669	1600	1550
30	1540	1467	1441
35	1379	1332	1303
40	1175	1134	1133
45	969	911	883
50	752	692	663
55	569	478	513
60	422	308	394
65	306	200	293
70	219	149	215
75	154	113	156
80	97	74	98
85	43	41	45

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1428	24.6	36.8
0-40	2258	38.9	58.3
0-60	3434	59.2	88.6
0-90	3875	66.8	100.0

Average Luminance

Angle	End	45°	Cross
45	5477	5149	4991
55	3965	3331	3574
65	2894	1891	2771
75	2378	1745	2409
85	1972	1880	2063

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	80	80	80	78	78	78	73	73
1	73	70	68	71	69	67	67	65
2	68	63	58	66	61	58	59	56
3	63	56	52	60	56	51	54	50
4	57	51	46	56	50	45	48	44
5	54	46	40	53	46	40	44	40
6	50	41	36	48	40	35	40	35
7	46	39	33	46	38	33	36	32
8	44	34	29	42	34	29	34	29
9	40	33	28	40	32	27	32	27
10	39	29	25	38	29	25	28	25

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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