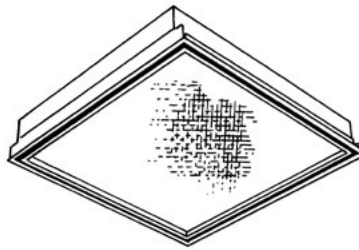


Special Application

Designer clean room troffer 2x2

T8, T5, T5HO, or TT5



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 designed for use with 1-1/2" face width inverted "T" bar ceilings.

Ordering guide

Example: 2DCLG417-FA21-UNV-1/4-EBHE-LPT835HL

Width	Family	Ceiling Type*	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Voltage	Options
2	DCL	G		—	FA	—	—	
2' 2"	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.	2 3 (Except 31U6) 4 (14, 17, 24HO or CF40 only)	14 14WT5 (22") 17 17WT8 (24") 24HO 24WT5HO (22") 31U1 31WT8 1-5/8" (24") 31U6 31WT8 6" (24") CF40 40WTT5 (24") CF50 50WTT5 (24") CF55 55WTT5 (24")	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	1/2 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 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 EB Electronic ballast, < 10% THD std. ballast factor EB10I CF40 electronic ballast, <10% THD, instant start EB10R T8 electronic ballast, <10% THD, program rapid start 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 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' 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, T8, 1100-1400 lumens, UNV ESCAN B50-CAN emerg. ballast, Canada market, T8 1100-1400 lumens, 120/347V ESST B50ST emerg. ballast, w/self test, US or Canada market, T8, 1100-1400 lumens, UNV E7LP LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V E6LP LP600 emerg. ballast, T5/T5HO, 750-1325 lumens, 120/277V GLR Fusing, fast blow LPT830HL Installed T8 hi lumen lamps, 80+ CRI, 3000K LPT835HL Installed T8 hi lumen lamps, 80+ CRI, 3500K LPT841HL Installed T8 hi lumen lamps, 80+ CRI, 4100K LPT830 Installed T8/T5/T5HO/CF lamps, 80+ CRI, 3000K LPT835 Installed T8/T5/T5HO/CF lamps, 80+ CRI, 3500K LPT841 Installed T8/T5/T5HO/CF 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)

- FMA22 – 2'x2' "F" mounting frame for NEMA "F" mounting (Seal to luminaire and ceiling)

2DCL Designer clean room troffer 2x2

T8, T5, T5HO, or TT5

Application

- Premium quality recessed static troffer for use in:
 - Grid inverted T 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.

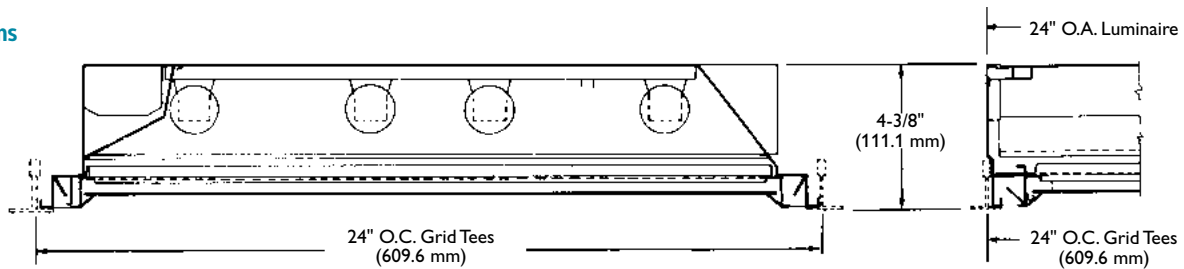
Electrical

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

Side Mounted Ballasts

- Reduce ballast operating temperatures (two surface contact, away from lamps)
- Increase average ballast life.
- Increase luminaire efficiency.
- All lamps on the same plane for uniform lens illumination.

Dimensions



Photometry

Designer Clean Room 2x2 31W T8 U 1-5/8" 2 Lamp

Efficiency – 69.2%

LER – 65

TER – 58

Catalog No.	2DCLG231UI-FA21-1/2-EB	Candlepower				Light Distribution				Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45	Cross
Test No.	15951	0	1650	1650	1650	0-30	1299	23.2	33.5	45	4439	4935	5696
S/MH	1.4	5	1642	1642	1649	0-40	2119	37.8	54.7	55	3363	3550	4186
Lamp Type	31W T8	10	1617	1627	1642	0-60	3379	60.3	87.2	65	2740	2156	3020
Lumens/Lamp	2800	15	1570	1597	1632	0-90	3874	69.2	100.0	75	2223	1767	2323
Ballast Factor	0.92	20	1506	1553	1614					85	2285	2624	2582
Input Watts	55	25	1419	1499	1587								
		30	1310	1427	1534								
		35	1173	1328	1439								
		40	1021	1161	1303								
		45	851	946	1092								
		50	676	746	846								
		55	523	552	651								
		60	409	383	491								
		65	314	247	346								
		70	218	161	232								
		75	156	124	163								
		80	97	96	107								
		85	54	62	61								

Comparative yearly lighting energy cost per 1000 lumens – \$3.69 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.

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	81	81	81	80	80	80	77	77	
1	76	72	70	73	71	68	68	67	
2	69	65	60	68	64	59	60	57	
3	64	57	53	63	56	52	55	51	
4	58	52	46	57	51	46	48	45	
5	55	46	40	54	46	40	45	40	
6	51	41	36	50	41	35	40	35	
7	46	39	33	46	38	33	36	32	
8	44	34	29	42	34	29	34	28	
9	40	33	27	40	32	27	30	27	
10	39	29	25	38	29	25	28	25	



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

