



Project:	
Location:	
Cat.No:	
Туре:	
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: 2DCLG432-FA21-UNV-1/4-EBLHE-LPT835HL

Width	Family	Ceiling Type*	No. of Lamps (not included)	Lamp Type		Door Frame	Lens		Volt	age	Option	s
2	DCL	G			-	FA		-		-		
2 2'	DCL Designer Clean Room	*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 4	28 28WT (46") 32 32WT (48") 54HO 54WT (46")	Г8 Г5НО	FA Flat Aluminum	12 19 21	K-12, .125" nominal K-19, .156" nominal Pattern 12, .125" nominal	120 277 347 UNV	Universal Voltage 120-277V	1/2 1/3 1/21 1/4 2/2 EB EBHE EBHE EBHE EBSD EBD7 EBDX EBDX EBD E1 E1CAN	One 2-lamp ballast One 3-lamp ballast 2-lamp & 1-lamp ballast 2-lamp & 1-lamp ballast Two 2-lamp ballast Two 2-lamp ballasts Two 2-lamp ballasts Electronic ballast, 4:0% THD, std. ballast factor T8 electronic ballast, program rapid start, 4:0% THD T8 electronic ballast, high efficiency, low ballast factor T8 electronic ballast, high efficiency, low ballast factor T8 electronic step dimming ballast, 88 ballast factor Advance Mark 7 dimming ballast, 0-10V (low voltage) control Advance Mark 10 dimming ballast, phase control Electronic dimming ballast, customer specified B100 emerg, ballast, T8, 350-450 lumens, 120/277V B100-CAN emerg, ballast, Canada market, T8, 350-450 lumens, 120/347V B60 emerg, ballast, T8, 600-700 lumens, 120/277V 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

Accessories (order separately)

• FMA24 - 2'x4' "F" mounting frame for NEMA "F" mounting (Seal to luminaire and ceiling)

B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV E5ST tumens, UNV LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V E7LP E6LP 3/8" flex 3 wire, 18 gauge 6' 3/8" flex 4 wire, 18 gauge 6' 3/8" flex, 5 wire 18 gauge 6' F2/5W GLR Fusing, fast blow Installed T8/T5/T5HO lamps, 80+ CRI, 3000K LPT830 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 LPT835 LPT841 LPT835HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K LPT841HL Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K 1-way gasketing, between lens & door frame 2-way gasketing, 1W + gasketing between door frame & housing 2W



2DCL Designer clean room troffer 2x4

T8, T5, or T5HO

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

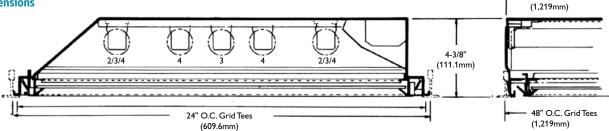
 cULus listed for wet location for covered ceiling use only.

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.

48" O.A. Fixture

Dimensions



Photometry

2' x 4' 4 Lamp

		Efficiency – 74.4%	LER – 73	TER - 67
ī	Candlanauvar		Links Distribution	A

Catalog No.	2DCLG432-FA21-1/4-EB
Test No.	15565
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	0.91
Input Watts	107

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.

Candle	Candlepower					
Angle	End	45	Cross			
0	3753	3753	3753			
5	3754	3736	3743			
10	3709	3706	3729			
15	3626	3653	3702			
20	3505	3569	3654			
25	3349	3463	3582			
30	3135	3314	3457			
35	2845	3116	3217			
40	2487	2761	2849			
45	2116	2184	2420			
50	1711	1588	1906			
55	1321	1062	1385			
60	941	659	980			
65	642	413	651			
70	434	283	448			
75	293	222	297			
80	181	187	179			
85	83	129	87			

Light D	istributi	ribution Average Luminance					
Degrees 0-30 0-40 0-60 0-90	2984 4896 7681 8636	% Lamp 25.7 42.2 66.2 74.4	% Luminaire 34.6 56.7 88.9 100.0	Angle 45 55 65 75 85	End 5100 3925 2589 1929 1623	45° 5263 3155 1665 1462 2522	Cros 5832 4115 2625 1956 1701
	ients of		ion ECTANCE 20 PE				

EFFEC	LIVE FLOOR	CAVII	I KELLECI	ANCE 20 P	EK (bic	-0.20)		
pcc		80			70		50	1
pw	70	50	30	70	50	30	50	30
RCR								
0	89	89	89	86	86	86	82	82
1	81	79	76	80	77	75	73	71
2	76	69	66	73	68	65	66	63
3	69	63	57	68	61	56	59	55
4	65	56	51	63	56	50	54	48
5	59	51	45	57	50	45	48	44
6	55	46	40	54	46	40	44	39
7	52	41	35	50	41	35	40	34
8	47	39	33	46	38	33	36	32
9	45	35	29	44	34	29	34	28
10	41	33	27	40	33	27	32	27



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

