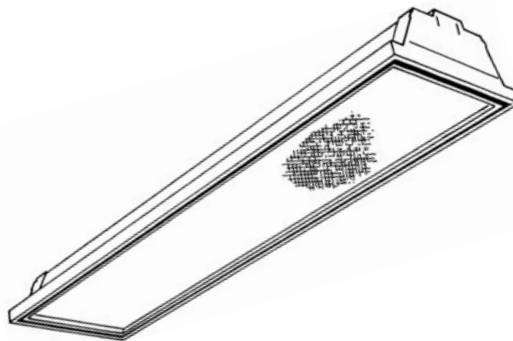


Recessed

Designer 1x4

1, 2, or 3 lamp T8, T5, T5HO
with Air Handling



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

Day-Brite / CFI Designer is a premium grade recessed luminaire. Multiple options in door frames, lenses, air handling, and ceiling types provide versatility to meet the needs of many applications.

Ordering guide Example:

1DPGA132-FA01-UNV-1/1-EBHHE-LPT835HL

Width	Family	Ceiling type	Air function	No. of lamps (not included)	Lamp type/Wattage	Door frame	Lens	Voltage	Door finish
1	DP					FA			
1 1'	DP Designer	G Grid F Flange	S Static (no air function) but with black reveal A Air Supply H Heat Transfer C Combination (A&H)	1 2 3	28 28WT5 (46") 32 32WT8 (48") 54HO 54WT5HO (46")	FA Flat Aluminum	01 Pattern 12 prismatic acrylic 08 Frost glaze (opal), .187" nominal 12 K-12, .125" nominal 19 K-19, .156" nominal 21 Pattern 12, .125" nominal	120 120V 277 277V 347 347V UNV Universal voltage 120-277V	BLANK White B Black Door

Options

1/1	One 1 lamp ballast	E7LP	LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V
1/2	One 2 lamp ballast	E6LP	LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V
1/3	One 3 lamp ballast	F1	3/8" flex, 3 wire 18 gauge 6'
1/21	2 lamp and 1 lamp ballasts	F2	3/8" flex, 4 wire 18 gauge 6'
APC	Air pattern control blade	F2/5W	3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires
ASC	Snap out air slot covers one 1-lamp ballast	GLR	Fusing, fast blow
EB	Electronic ballast, <10% THD std. ballast factor	LPT830	Installed T8/T5/T5HO lamps 80+ CRI 3000K
EB10R	T8 electronic ballast, program rapid start, <10% THD	LPT835	Installed T8/T5/T5HO lamps 80+ CRI 3500K
EBHE	T8 electronic ballast, high efficiency, std. ballast factor	LPT841	Installed T8/T5/T5HO lamps 80+ CRI 4100K
EBLHE	T8 electronic ballast, high efficiency, low ballast factor	LPT830HL	Installed T8/T5 hi lumen lamps 80+ CRI 3000K
EBHHE	T8 electronic ballast, high efficiency, high ballast factor	LPT835HL	Installed T8/T5 hi lumen lamps 80+ CRI 3500K
EBD7	Advance Mark 7 dimming ballast, 0-10V (low voltage) control	LPT841HL	Installed T8/T5 hi lumen lamps 80+ CRI 4100K
EBDX	Advance Mark 10 dimming ballast, phase control	1W	1-way gasketing between lens & door frame (not avail. w/ RA door)
EBSD	T8 electronic step dimming ballast, .88 ballast factor	2W	2-way gasketing, 1W + gasketing between door frame & housing
EBD	Electronic dimming ballast, customer specified	3W	3-way gasketing, 2W + gasketing for field installation between housing & ceiling
E1	B100 emerg. ballast, T8, 350-450 lumens, 120/277V	SI	Specular Insert (reflector)
E1CAN	B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V	PAF	Housing painted after fabrication
E7	B60 emerg. ballast, T8, 600-700 lumens, 120/277V	CHIC	Chicago Plenum rated
E5	B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV	WR	White reveal
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		

Accessories (order separately)

- FMA14 1'x4' "F" mounting frame for NEMA "F" mounting

1DP Designer recessed 1X4

1, 2, or 3 lamp T8, T5, T5HO

Application

- Premium quality recessed air handling troffer for:
 - Grid inverted T (NEMA "G") ceilings
 - Flange for concealed mechanical suspension (NEMA "F")
- Select one of four air handling functions:
 - Static: non-air handling
 - Heat transfer: air return through lamp compartment
 - Air supply: (or air return) through side slots, adjustable pattern control blade is optional
 - Combination: both heat transfer and air supply features listed above
- Air boots by others.

Construction/Finish

- Die formed ribbed and embossed steel housing
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel
- Labor saving integral t-bar grid clip.
- Factory installed access plate includes grounding screw
- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums

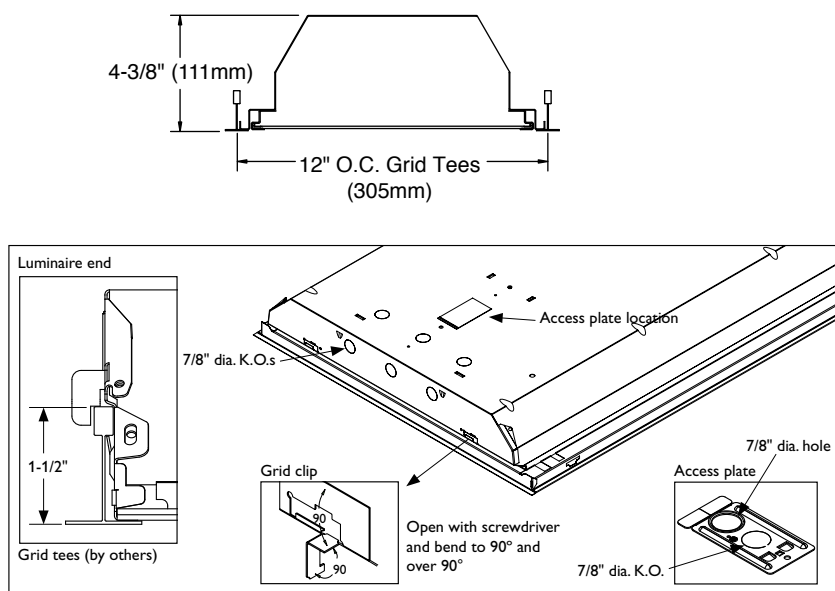
Electrical

- 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

- Black reveal produces floating door appearance
- Door frames standard with premium white guide post spring loaded latches
- Door frames have mitered corners and are painted after fabrication with white polyester power finish

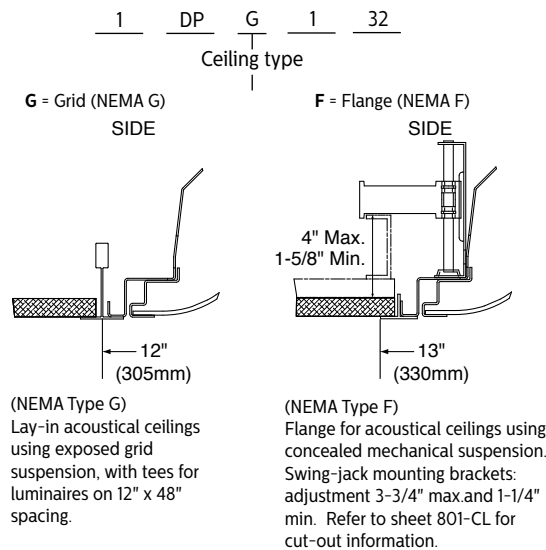
Dimensions



1DP Designer recessed 1X4

1, 2, or 3 lamp T8, T5, T5HO

Ceiling configuration



Photometry

D 1x4 1 Lamp T8

Efficiency – 78.1%

LER – 65

TER – 57

Catalog No.	1DPGA132-FA01-1/1-EB
Test No.	15550
S/MH	1.4
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	1.00
Input Watts	35
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	892	892	892
5	888	890	893
10	877	887	896
15	858	881	904
20	830	871	910
25	794	859	911
30	745	839	889
35	680	790	808
40	603	662	669
45	517	527	508
50	408	394	383
55	311	267	298
60	233	168	225
65	168	108	165
70	118	79	118
75	84	61	86
80	52	40	55
85	25	23	25

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	728	25.1	34.6
0-40	1203	41.5	57.2
0-60	1863	64.2	88.5
0-90	2104	72.6	100.0

Average Luminance

Angle	End	45°	Cross
45	2922	2979	2871
55	2167	1860	2076
65	1589	1021	1560
75	1297	942	1328
85	1146	1055	1146

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80	70	50
pw	70	50	30
RCR	70	50	30
0	85	85	85
1	80	77	73
2	73	68	64
3	68	60	56
4	63	55	48
5	57	50	44
6	54	45	39
7	50	40	34
8	46	38	32
9	44	34	28
10	40	32	27

DGA 1x4 2 Lamp T8

Efficiency – 66.8%

LER – 60

TER – 55

Catalog No.	1DPGS232-FA01-1/2-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
RCR	70	50	30
0	80	80	80
1	73	70	68
2	68	63	58
3	63	56	52
4	57	51	46
5	54	46	40
6	50	41	36
7	46	39	33
8	44	34	29
9	40	33	28
10	39	29	25

1DP Designer recessed 1X4

1, 2, or 3 lamp T8, T5, T5HO

DGA 1x4 3 Lamp T8

Efficiency – 62.1%

LER – 61

TER – 56

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	1DPGS332-FA01-1/3-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
Test No.	15555	0	2634	2634	2634	0-30	2013	23.1	37.2	45	7608	7167	6664
S/MH	1.2	5	2619	2623	2619	0-40	3194	36.7	59.1	55	5498	4459	4912
Lamp Type	F32T8	10	2583	2586	2581	0-60	4808	55.3	88.9	65	3972	2506	3802
Lumens/Lamp	2900	15	2520	2522	2510	0-90	5406	62.1	100.0	75	3289	2363	3227
Ballast Factor	0.93	20	2430	2420	2406					85	2797	2660	2843
Input Watts	82	25	2313	2291	2269	Coefficients of Utilization							
		30	2147	2125	2103	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
		35	1920	1920	1845	pcc	80			70			50
		40	1648	1597	1528	pw	70	50	30	70	50	30	50 30
		45	1346	1268	1179	RCR							
		50	1043	958	901	0	73	73	73	71	71	71	68 68
		55	789	640	705	1	68	66	64	67	65	63	61 59
		60	578	404	545	2	63	58	55	61	57	55	56 53
		65	420	265	402	3	58	53	47	56	52	47	50 46
		70	300	197	290	4	54	47	42	53	46	41	45 40
		75	213	153	209	5	50	42	38	48	41	38	40 36
		80	135	99	133	6	46	39	34	46	39	34	38 33
		85	61	58	62	7	44	35	30	42	34	30	34 29
						8	40	33	28	40	33	28	32 28
						9	38	30	26	36	29	26	28 25
						10	35	28	23	34	28	23	27 23

Comparative yearly lighting energy cost per 1000 lumens – **\$3.93** 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.

