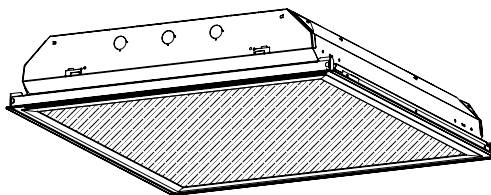


Recessed

Designer 2x2

2 Lamp T8U 6"
2,3,or 4 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: 2DPGA317-FA01-UNV-1/3-EBHE-LPT835HL

Width	Family	Ceiling type	Air function	No. of lamps (not included)	Lamp type/Wattage	Door frame	Lens	Voltage	Door finish
2									
2 2'	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)	2 3 4	31U6 31WT8 6" (24") 14 14WT5 (22") 17 17WT8 (24") 24HO 24WT5HO (22")	FA Flat Aluminum RA Regressed 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

1/2	One 2 lamp ballast	E5CAN	B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V
1/3	One 3 lamp ballast	E5ST	B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV
1/21	2 lamp and 1 lamp ballasts	E7LP	LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V
1/4	One 4 lamp ballast	E6LP	LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V
2/2	Two 2 lamp ballasts	F1	3/8" flex, 3 wire 18 gauge 6'
APC	Air pattern control blade	F2	3/8" flex, 4 wire 18 gauge 6'
ASC	Snap out air slot covers one 1-lamp ballast	F2/5W	3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires
EB	Electronic ballast, <10% THD std. ballast factor	GLR	Fusing, fast blow
EB10R	T8 electronic ballast, program rapid start, <10% THD	LPT830	Installed T8/T5/T5HO lamps 80+ CRI 3000K
EBHE	T8 electronic ballast, high efficiency, std. ballast factor	LPT835	Installed T8/T5/T5HO lamps 80+ CRI 3500K
EBLHE	T8 electronic ballast, high efficiency, low ballast factor	LPT841	Installed T8/T5/T5HO lamps 80+ CRI 4100K
EBHHE	T8 electronic ballast, high efficiency, high ballast factor	LPT830HL	Installed T8/T5 hi lumen lamps 80+ CRI 3000K
EBD7	Advance Mark 7 dimming ballast, 0-10V (low voltage) control	LPT835HL	Installed T8/T5 hi lumen lamps 80+ CRI 3500K
EBDX	Advance Mark 10 dimming ballast, phase control	LPT841HL	Installed T8/T5 hi lumen lamps 80+ CRI 4100K
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

1. 2 lamp only

Accessories (order separately)

FKDP22 Flange conversion kit 2x2
FMA22 2'x2' "F" mounting frame for NEMA "F" mounting

2DP Designer recessed 2X2

2, 3, or 4 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 the 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 handling or combination models are available with optional factory installed snap-in air slot covers (ASC) or adjustable air pattern control blades (APC)
- Air boots by others

Construction/Finish

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel
- Factory installed access plate includes 7/8" hole, 7/8" knockout and grounding screw
- Flat black finish inside perimeter reveal for “floating door” appearance
- T-bar grid clips (UL listed) built into fixture, no extra parts required. Designed for use with standard grid ceiling members, 1-1/2" maximum height
- One-piece housing features integral end plates that increase rigidity and minimize damage from handling or shipping

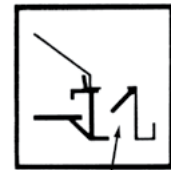
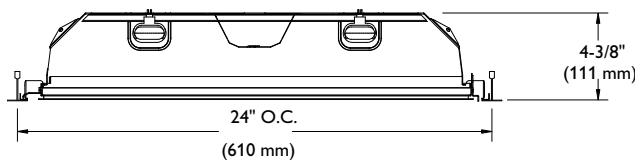
Electrical

- Class P, HPF ballasts comply with E Federal Ballast Law (Public Law 100-357, 1988)
- UL listed for damp locations. Canadian certified optional
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations

Enclosure

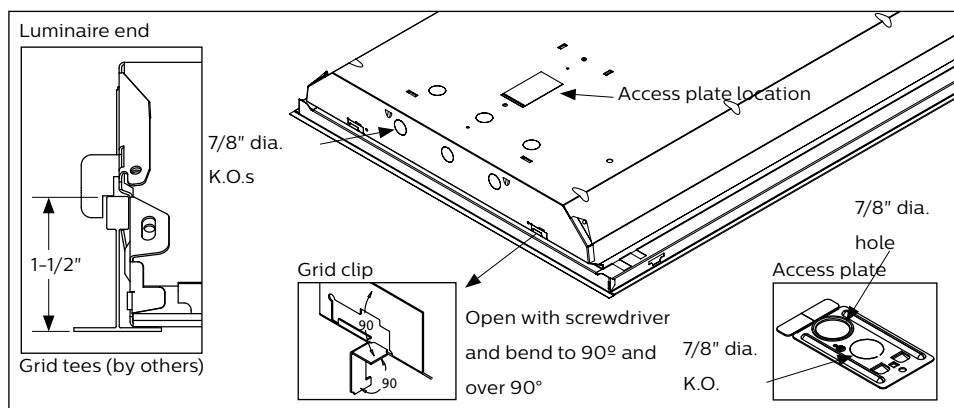
- Mitered corner door frames with a choice of Flat Aluminum or Regressed Aluminum
- Door frames standard with guide post spring loaded latches
- Mechanically designed interlocks block light, no gaskets are needed
- Prismatic acrylic pattern 12 lens standard (01)
- Other lenses or louvers optional
- Choice of door finishes: white (standard), or black
- T-hinges are standard for positive support of the enclosure

Dimensions



Optional Air Pattern Control (on Air and Combination Units)

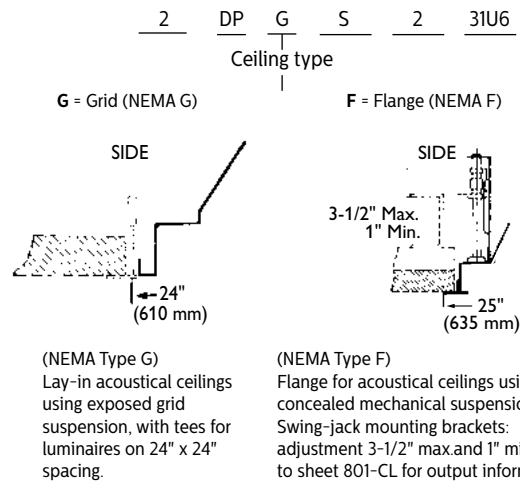
- Fully adjustable
 - Closed= Static
 - 45°= Horizontal Air Supply
 - 90°= (fully open) – Vertical Air Supply
- Side Slots may also be used for Return Air to Plenum



2DP Designer recessed 2X2

2, 3, or 4 lamp T8, T5, T5HO

Ceiling configuration



Photometry

Designer 2x2 2 Lamp 3IU6 Efficiency - 73% LER - 64 TER - 57

Catalog No.	2DPGS23IU6-FA01-1/2-EB	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Zone	End	45	Cross
Test No.	22786	0	1703	1703	1703	0-30	1326	32.5	45	4809	5138	5597
S/MH	1.3	5	1686	1698	1703	0-40	2141	52.5	55	3736	4064	4450
Lamp Type	FB031	10	1658	1678	1691	0-60	3464	85	65	2793	2662	3212
Lumens/Lamp	2800	15	1611	1644	1670	0-90	4074	100	75	2907	2223	2765
Ballast Factor	0.88	20	1543	1595	1635				85	3428	3047	3301
Input Watts	56	25	1458	1526	1580							
		30	1350	1429	1497							
		35	1225	1311	1383							
		40	1085	1162	1241							
		45	922	985	1073							
		50	751	805	870							
		55	581	632	692							
		60	430	453	510							
		65	320	305	368							
		70	253	204	265							
		75	204	156	194							
		80	152	127	145							
		85	81	72	78							

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.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20	80	70	50	30	50	30	50	30
Ceil									
Wall	70	50	30	70	50	30	50	30	
RCR									
0	86	86	86	84	84	84	81	81	
1	80	77	73	78	75	71	71	69	
2	72	68	63	70	66	61	64	59	
3	67	59	55	65	58	54	56	52	
4	61	54	47	59	53	46	51	46	
5	56	47	41	56	47	41	46	40	
6	53	44	38	52	42	36	41	36	
7	48	40	34	47	39	34	38	33	
8	46	36	30	45	35	29	34	29	
9	42	34	28	41	33	28	32	27	
10	40	30	26	40	30	25	29	25	

Designer 2x2 4 Lamp T8 Efficiency - 77% LER - 59 TER - 53

Catalog No.	2DPGS417-FA01-1/4-EB	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Zone	End	45	Cross
Test No.	22866	0	1674	1674	1674	0-30	1307	31.9	45	4201	4540	4934
S/MH	1.3	5	1666	1665	1671	0-40	2121	51.7	55	3366	3795	4134
Lamp Type	F17T8	10	1640	1647	1661	0-60	3478	84.8	65	2606	2506	3043
Lumens/Lamp	1325	15	1595	1616	1643	0-90	4101	100	75	2641	1852	2466
Ballast Factor	0.88	20	1530	1571	1612				85	2973	2527	2676
Input Watts	61	25	1445	1506	1564							
		30	1340	1420	1493							
		35	1219	1305	1390							
		40	1077	1158	1255							
		45	917	991	1077							
		50	753	833	904							
		55	596	672	732							
		60	454	494	557							
		65	340	327	397							
		70	261	208	278							
		75	211	148	197							
		80	158	120	143							
		85	80	68	72							

Comparative yearly lighting energy cost per 1000 lumens – \$3.58 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)									
pfc =	20	80	70	50	30	50	30	50	30
Ceil									
Wall	70	50	30	70	50	30	50	30	
RCR									
0	92	92	92	90	90	90	85	85	
1	84	81	78	82	80	77	76	73	
2	78	71	67	76	69	66	68	64	
3	70	64	57	68	63	56	59	56	
4	66	56	51	64	56	50	54	48	
5	60	51	45	58	50	44	48	42	
6	56	46	40	55	46	39	44	39	
7	52	41	35	51	41	34	40	34	
8	48	39	32	47	38	32	36	32	
9	46	35	28	44	34	28	34	28	
10	42	33	27	41	32	27	32	26	

2DP Designer recessed 2X2

2, 3, or 4 lamp T8, T5, T5HO

Designer 2x2 4 Lamp T5HO Efficiency - 80% LER - 59 TER - 52

Catalog No. 2DPG424HO-FA01-2/2-EB		Candlepower				Light Distribution			Average Luminance			
Test No.	29140	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Zone	End	45°	Cross
S/MH	1.32	0	2274	2274	2274	0-30	1791	31.8	45	5720	6300	6880
Lamp Type	F24T5HO	5	2240	2279	2266	0-40	2913	51.8	55	4495	5114	5595
Lumens/Lamp	2800	10	2215	2258	2253	0-60	4792	85.1	65	3448	3289	3956
Ballast Factor	0.88	15	2161	2216	2222	0-90	5629	100	75	3069	2425	3700
Input Watts	96	20	2090	2155	2179				85	3491	3234	4373
		25	1986	2071	2104	Coefficients of Utilization						
		30	1854	1956	2007	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		35	1688	1801	1881	pfc =	20					
		40	1492	1614	1727	Ceil		80		70		50
		45	1263	1391	1519	Wall	70	50	30	70	50	30
		50	1025	1154	1270	RCR						
		55	805	916	1002	0	94	94	94	93	93	89
		60	614	666	739	1	88	83	81	85	81	79
		65	455	434	522	2	80	73	68	78	72	68
		70	337	275	380	3	73	66	59	71	65	58
		75	248	196	299	4	68	58	52	66	57	52
		80	179	157	226	5	63	53	46	60	52	46
		85	95	88	119	6	57	47	40	56	46	40
						7	54	44	36	53	42	36
						8	50	40	33	48	39	33
						9	46	36	29	46	35	29
						10	44	34	28	42	34	28
Comparative yearly lighting energy cost per 1000 lumens – \$4.07 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.												



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

