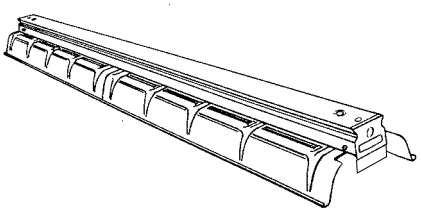
Day-Brite CFI by Signify

Industrial

1FD general purpose

T8 or T12 high output



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI general purpose industrial is a luminaire providing 10% uplight and 13° crosswise shielding.

Ordering guide

Example: 1FD286HO-PP-UNV-1/2-EB

Family	No. of Lamps per Cross Section	Lamp Type	Reflector Options	Voltage	Options
1FD –	2	–	–	–	
1FD Industrial (10% uplight)	(not included) **2**	**44HO** 44W T8 380 mA (48") **48HO** 60W T12 800 mA (48") **86HO** 86W T8 380 mA (96") **96HO** 110W T12 800 mA (96")	**PP** Painted Polyester **PPS** Painted Polyester solid top	**UNV** Universal voltage 120/277V **120** 120V **277** 277V **347** 347V	**1/2** One 2-lamp ballast **EB** Electronic ballast, <20% THD **E7** B60 emerg. ballast, 600-700 lumens, 120/277V **E5** B50 emerg. ballast, U.S. or Canada market, 1100-1400 lumens, UNV **E5CAN** B50-CAN emerg. ballast, Canada market, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, 1100-1400 lumens, UNV **GLR** Fusing, fast blow Power Connect modular wiring available, see sheet 1604-OA for details

Accessories (order separately)

- **CS-400** Rigid Canopy
- **CS-500** 42" Top Swivel Canopy
- **CS-12** 12" Stem
- **CS-18** 18" Stem
- **CS-24** 24" Stem
- **CS-30** 30" Stem
- **CS-36** 36" Stem
- **CS-48** 48" Stem
- **FL-111** Sliding hanger, conduit/stem/screw
- **FL-117** Hook, chain (requires FL-111)
- **FL-119** Hook, messenger cable (requires FL-111)
- **FL-123** 5' chain (w/S-hooks) set
- **FL-173** 4' wire guard (use 2 for 8')
- **FL-3** Channel coupling
- **N-3381** Universal joint aligner, octagonal box, 3/4" I.P.S.

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Construction/Finish

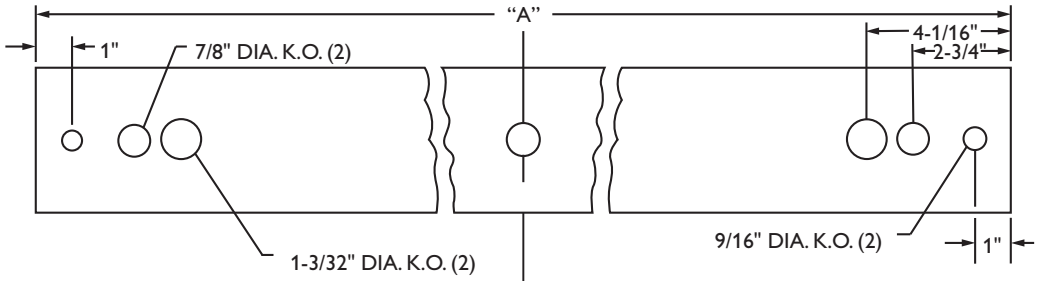
- Housing and reflector are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Multiple knockouts for convenient installation.
- Heavy duty channel of code gauge die formed steel,
- Reflectors have stiffening ribs for rigidity and provide 13° crosswise shielding.
- Twist-lock reflector thumb screws.
- Continuous rows utilize a simple concealed coupling, FL-3 (optional).
- Apertured reflector (11-13% uplight) standard.
- Solid top reflector (no uplight) optional.

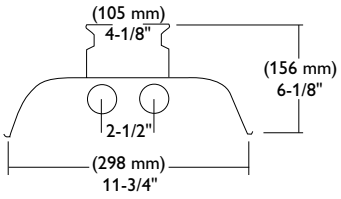
Electrical

- cULus listed for damp locations.
- Spring-loaded lampholders provide positive lamp engagement and electrical contact.
- **IMPORTANT! High Output Fixtures must be suspended with a minimum 1-1/2" clearance to ceiling.**
- Day-Brite's standard fixtures for high output T8 (380 mA) and T12 (800 mA) include ballasts rated for -20° F starting temperature.

Dimensions

		DIM "A"
4' Channel	(1220mm)	48"
8' Channel	(2439mm)	96"





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Photometry

1FD 8' 2 Lamp F96 HO ES **Efficiency – 90.4%** **LER – 68** **TER – 41**

Catalog No.	1FD296HO-PP-1/2-EB
Test No.	ITL42348D1
S/MH	1.4
Lamp Type	F96 HO ES
Lumens/Lamp	8000
Ballast Factor	.84
Input Watts	178

Comparative yearly lighting energy cost per 1000 lumens – **$3.53** 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	3896	3896	3896
5	3893	3870	3924
15	3785	3773	3847
25	3544	3595	3723
35	3187	3350	3490
45	2722	2970	3211
55	2179	2548	2497
65	1528	1772	1745
75	838	1082	876
85	225	202	194
95	26	61	70
105	165	83	148
115	343	73	68
125	524	183	101
135	691	321	225
145	829	452	374
155	940	574	515
165	1015	881	752
175	1049	1019	1020

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	4957	5409	5848
55	4892	5721	5606
65	4656	5400	5317
75	4170	5384	4359
85	3325	2985	2867

Average Luminance

Angle	End	45°	Cross
45	3786	4076	4511
55	3725	4419	4284
65	3550	4071	4007
75	3115	4080	2916
85	2290	2024	1832

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	105	105	105	101	101	101	93	93
1	94	91	86	92	88	83	81	79
2	85	79	71	82	76	69	70	66
3	78	68	60	75	66	59	61	56
4	71	60	52	68	58	51	55	48
5	66	54	46	63	52	44	48	41
6	59	47	40	57	46	39	44	36
7	56	44	35	54	41	34	40	33
8	52	40	32	50	38	30	35	29
9	47	35	28	46	34	28	33	27
10	45	33	26	44	32	26	30	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

Signify

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