PHILIPS

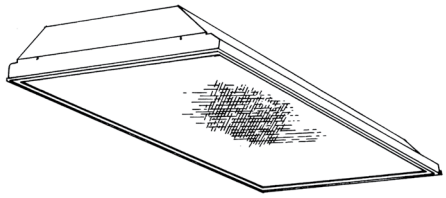
Day-Brite

CFI

Special Application

Designer wet location troffer 2x4

T5, T8, or T5HO



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Philips Day-Brite / Philips CFI Designer wet location troffer is a recessed luminare cULus Listed for damp and wet locations (for covered ceiling use only).

Ordering guide

Example: 2DPWLG232-FS01-UNV-1/2-EBLHE-LPT835HL-PAF

Width	Family	Ceiling Type	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Voltage	Options
2	DPWL			–		–	–	
2 2'	**DPWL** Designer wet location	**G** Grid **F** Flange **Z** Z Spline/ Modular	**2** **3** **4**	**28** 28WT5 (46") **32** 32WT8 (46") **54HO** 54WT5HO (46")	**FA** Flat Aluminum **FS** Flat Steel	**01** Pattern 12 prismatic acrylic **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
EB	Electronic ballast, <10% THD, std. ballast factor
EB10R	T8 electronic ballast, program rapid start, <10% THD
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
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
E1	B100 emerg. ballast, T8, 350-450 lumens, 120/277V
E7	B60 emerg. ballast, T8, 600-700 lumens, 120/277V
E5	B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV
E5ST	B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV
E7LP	LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V
E6LP	LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V
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'
GLR	Fusing, fast blow
LPT830	Installed T8/T5/T5HO lamps, 80+ CRI, 3000K
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
LPT835HL	Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K
LPT841HL	Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K
1W	1-way gasketing, between lens & door frame
2W	2-way gasketing, 1W + gasketing between door frame & housing
3W	3-way gasketing, 2W + gasketing for field installation between housing & ceiling
PAF	Housing painted after fabrication
CHIC	Chicago plenum rated

Accessories (order separately)

- **FKDP24** – Flange conversion kit 2x4
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" mounting

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2DPWL Designer wet location troffer 2x4

T5, T8, or T5HO

Application

- Premium quality recessed static troffer for use in:
  - Grid inverted T (NEMA “G”) ceilings.
  - Flange-type ceilings with concealed mechanical suspension (NEMA “F”)
  - Modular and “Z” spline (NEMA “M/Z” ceilings.

Construction/Finish

- Die formed ribbed and embossed steel housing.
- Housing is multi-stage phospate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Housing painted after stamping (PAF) option is highly recommended for areas of high humidity.
- Factory installed access plate includes 7/8" hole, 7/8" knockout and grounding screw.
- T Bar grid clips built into fixture end plates, no extra parts required. Designed for use with standard grid ceiling members, 1-1/2" maximum height.
- One-piece housing feature integral end plates that increase rigidity and minimize damage from handling or shipping.
- Not suitable for hose-down applications.

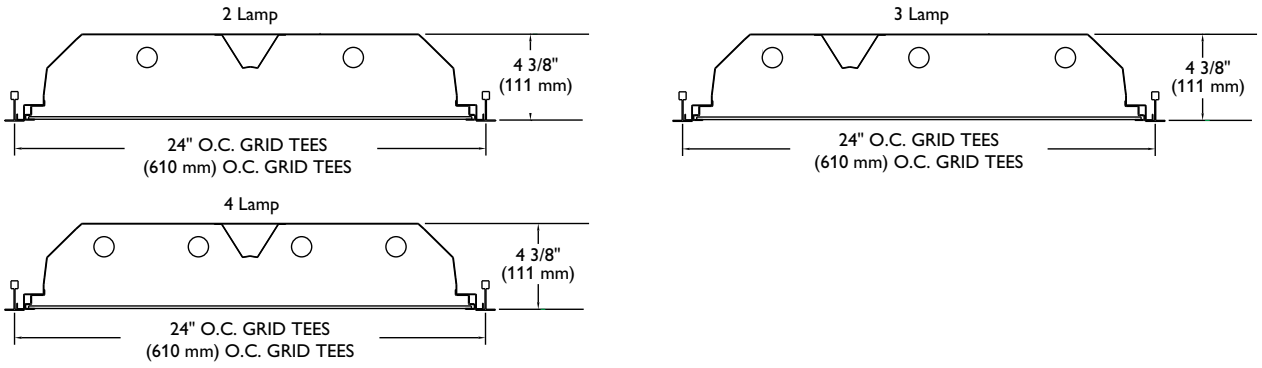
Electrical

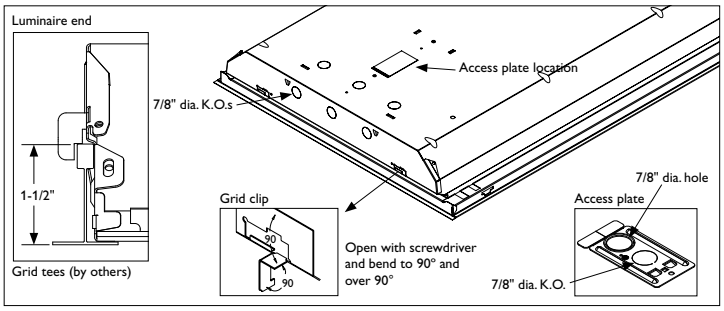
- cULus listed for wet and damp locations for covered ceiling use only.
- Models incorporating standard emergency ballasts will be listed for damp locations.

Enclosures

- Flat steel door is standard.
- Extruded aluminum door optional.
- Door frames have mitered corners and are painted after fabrication with polyester powder coating.
- Closed cell neoprene gasketing between housing and door frame where required.
- T-Hinges are standard for positive support of the enclosure.
- White guide-post spring loaded latches are standard for ease of use and secure retention of the door frame and lens.

Dimensions





2DPWL Designer wet location troffer 2x4

T5, T8, or T5HO

Photometry

DPWL 2x4 3 Lamp T8

Efficiency – 79.2% **LER – 67** **TER – 58**

Catalog No.	2DPWLG332-FS01-1/3-EB
Test No.	20838D1
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	0.88
Input Watts	89

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 Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	2680	2680	2680
5	2690	2670	2658
10	2657	2650	2653
15	2601	2617	2636
20	2522	2561	2600
25	2417	2476	2522
30	2275	2353	2382
35	2096	2177	2211
40	1873	1946	2015
45	1603	1677	1781
50	1294	1389	1501
55	1027	1098	1147
60	794	774	816
65	594	510	591
70	441	334	453
75	323	257	365
80	237	211	273
85	126	118	142

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2132	24.9	31.5
0-40	3481	40.7	51.4
0-60	5741	67.1	84.8
0-90	6772	79.2	100.0

Average Luminance

Angle	End	45°	Cross
45	3491	3652	3879
55	2757	2948	3080
65	2165	1858	2154
75	1922	1529	2172
85	2226	2085	2509

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	93	93	93	92	92	92	88	88
1	86	82	80	84	81	79	78	76
2	80	72	68	77	71	67	68	65
3	72	65	58	70	64	57	61	56
4	67	57	52	65	56	51	55	50
5	61	52	46	59	51	45	50	44
6	56	46	40	56	46	40	45	39
7	53	42	35	52	41	35	40	35
8	50	39	33	48	39	33	38	32
9	46	35	29	45	35	29	34	28
10	44	33	27	42	33	27	32	27

DPWL 2x4 4 Lamp T8

Efficiency – 80.1% **LER – 70** **TER – 62**

Catalog No.	2DPWLG432-FS01-1/4-EB
Test No.	20849D1
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	0.88
Input Watts	116

Comparative yearly lighting energy cost per 1000 lumens – **$3.43** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	3668	3668	3668
5	3670	3662	3642
10	3621	3637	3634
15	3546	3586	3609
20	3438	3512	3555
25	3289	3393	3452
30	3099	3220	3281
35	2846	2991	3049
40	2531	2689	2763
45	2176	2313	2430
50	1767	1912	1996
55	1398	1485	1522
60	1066	1037	1109
65	804	690	803
70	589	450	613
75	433	346	495
80	317	289	371
85	168	163	194

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2916	25.6	31.6
0-40	4766	41.8	51.6
0-60	7839	68.8	84.9
0-90	9234	81.0	100.0

Average Luminance

Angle	End	45°	Cross
45	4739	5038	5292
55	3754	3987	4087
65	2930	2514	2926
75	2576	2059	2945
85	2969	2880	3428

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	95	95	95	93	93	93	90	90
1	89	84	81	86	82	80	80	77
2	81	75	69	79	73	68	70	67
3	75	67	59	72	65	59	63	57
4	68	59	53	67	58	52	56	51
5	63	54	46	61	53	46	51	45
6	58	47	41	56	47	40	46	40
7	55	44	36	53	42	36	41	35
8	51	40	34	50	40	33	39	33
9	47	36	30	46	36	29	35	29
10	45	34	28	44	34	28	33	28

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

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