

An affordable, energy efficient solution.

DAYLINE LED TROFFER 2'x2'



PHILIPS DAY-BRITE / PHILIPS CFI DAYLINE LED TROFFER 2'x2'

DayLine LED is an energy efficient shallow depth troffer designed specifically around LEDs. Developed utilizing a minimalistic strategy to achieve sustainable objectives, DayLine LED offers a clean appearance for a fresh variation from traditional lensed troffers. Its soft opal diffuser with large luminous area minimizes apparent brightness and provides general lighting for a wide variety of applications such as offices, schools, retail, or healthcare.

Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: _____
 Mfg: _____ Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: 2CLG36L840-2-D-UNV-DAYOCC

Width	Family	Ceiling Type	Lumen Package	Color	Length	Diffusers	Voltage	Options
<input type="text" value="2"/>	<input type="text" value="CL"/>	<input type="text" value="G"/>	<input type="text"/>	<input type="text"/> —	<input type="text" value="2"/> —	<input type="text" value="D"/> —	<input type="text" value="UNV"/> —	<input type="text"/>
2 2'	CL DayLine	G Grid	30L 3000 nominal delivered lumens 36L 3600 nominal delivered lumens	840 80 CRI, 4000K 835 80 CRI, 3500K	2 2'	D Diffuse (Opal)	UNV Universal voltage, 120-277 volt 347	F1 3/8" Flex, 3 Wire 18 gauge F2 3/8" Flex, 4 Wire 18 gauge GLR1 Fusing, Fast Blow DIM 0-10V dimming driver EMLED Integral emergency battery pack OCC Integral sensor, occupancy DAY Integral sensor, daylighting DAYOCC Integral sensor, daylighting and occupancy SDIM Step Dimming

Accessories (order separately)

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting



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Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalistic strategy to achieve sustainable objectives.
- Low profile configuration is only 2-3/4" high and is compatible with virtually any plenum.
- Clean design offers a fresh variation to traditional lensed troffers.
- Soft opal diffuser with large luminous area minimize apparent brightness and provide high visual comfort perfect for a wide variety of general lighting applications such as offices, schools, retail, or healthcare.
- Multiple lumen packages over a wide range provide significant application flexibility over light levels and/or luminaire spacing.
- High efficiency source and luminaire design create significant energy savings over conventional solutions. Recommended light levels can frequently be achieved with lighting power densities of 0.5 to 0.85 Watts per square foot, complying with any known energy code.
- Directs a controlled amount of light to the higher angles in the room to balance the brightness of the surfaces and eliminate "cave effect" while creating the impression of a larger, brighter space without glare.
- Excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source. Integral or external sensors are available for use.

- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster requirements can be accommodated by using an FMA22 "F" mounting frame (sold separately.)
- Listed for use in insulated ceilings (**IC Rated**).

Construction/Finish

- Uncomplicated design is well under 3" in depth and only requires a few parts outside of the electrical system and hardware, creating several benefits:
 - Less material required
 - Less packaging required
 - Reduced weight
 - Less energy required for construction and assembly
 - More luminaires can be shipped per truck to reduce fuel use and emissions
- Luminaire is painted after fabrication with a matte white polyester powder coating for a high quality, durable finish with no unfinished edges to create an installation hazard or potential for corrosion.
- T-bar grid clips are included for easy installation

Electrical

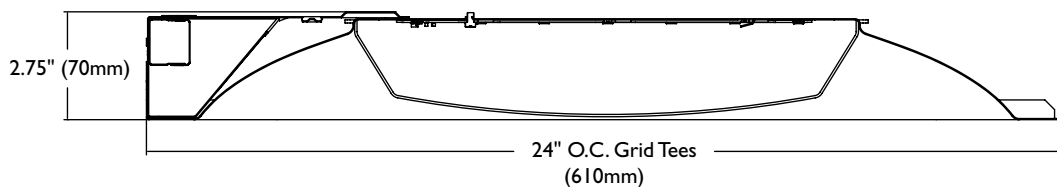
- Integral sensor options for occupancy sensing and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Total luminaire efficacy as high as 92 LPW (lumens per Watt) significantly reduces energy usage compared to conventional 2x2 sources.

- LED board is easily accessible from below without tools. Single LED boards is replaceable if needed via plug-in connectors to ensure long service life.
- LED driver is accessible from above.
- 0-10V dimming and emergency options are available to add even more application flexibility. Emergency model depth may vary compared to standard luminaire.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models so equipped.)
- High efficiency LEDs have a minimum 50,000 hour rated life (L_{70})
- ETL listed to UL and CSA standards, suitable for damp locations.

Enclosure

- Opal diffuser provides soft, comfortable lighting while maintaining high efficiency.
- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

Dimensions



DAYLINE LED TROFFER 2'x2'

DayLine 2x2, 3000 delivered lumens LER-92

Catalog No. 2CLG30L840-2-D-UNV
 Test No. 31551
 S/MH 1.3
 Lamp Type 30W LED
 Lumens/Lamp 3023
 Input Watts 32.8

Comparative yearly lighting energy cost per 1000 lumens –
 \$2.93 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.

Photometric values based on test performed in compliance with LM-79.

Candlepower		Cross	
Angle	End	45	50
0	1024	1024	1024
5	1021	1019	1018
10	1005	1004	1002
15	980	979	979
20	951	951	950
25	910	911	910
30	862	863	863
35	809	811	812
40	749	753	754
45	684	691	690
50	619	628	623
55	544	558	551
60	473	489	478
65	390	411	395
70	299	330	303
75	205	241	209
80	116	141	118
85	44	53	45

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	118	118	118	115	115	115	111	111	
1	108	103	98	106	101	96	96	93	
2	97	90	82	95	88	81	83	79	
3	89	79	69	86	77	68	73	67	
4	81	68	59	79	68	59	65	57	
5	75	61	53	72	60	52	58	51	
6	68	56	46	67	55	46	53	45	
7	64	50	40	61	50	40	47	40	
8	59	46	36	57	45	36	44	35	
9	56	41	34	54	40	34	40	33	
10	52	39	30	51	38	30	36	29	

Light Distribution

Degrees	Lumens	% Luminaire
0-30	793	26.2
0-40	1300	43.0
0-60	2328	77.0
0-90	3023	100.0

Average Luminance

Angle	End	45°	Cross
45	3251	3282	3276
55	3186	3269	3225
65	3099	3269	3137
75	2663	3129	2708
85	1677	2047	1746

DayLine 2x2, 3600 delivered lumens LER-87

Catalog No. 2CLG36L835-2-D-UNV
 Test No. 31280
 S/MH 1.3
 Lamp Type 42W LED
 Lumens/Lamp 3668
 Input Watts 42.3

Comparative yearly lighting energy cost per 1000 lumens –
 \$2.76 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.

Photometric values based on test performed in compliance with LM-79.

Candlepower		Cross	
Angle	End	45	50
0	1227	1227	1227
5	1223	1221	1220
10	1205	1204	1203
15	1177	1175	1175
20	1146	1144	1143
25	1100	1097	1095
30	1043	1042	1040
35	983	982	980
40	912	913	911
45	836	838	833
50	758	765	755
55	670	681	668
60	583	597	579
65	483	503	480
70	373	404	369
75	257	295	255
80	147	171	145
85	56	62	55

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	118	118	118	115	115	115	111	111	
1	108	103	98	106	101	96	96	93	
2	97	90	82	95	88	81	83	79	
3	89	78	69	86	77	68	73	67	
4	81	68	59	79	68	58	65	57	
5	75	61	53	72	60	52	57	51	
6	68	55	46	67	55	46	53	45	
7	64	50	40	61	48	40	47	40	
8	59	46	36	57	45	36	44	35	
9	56	41	34	54	40	33	40	33	
10	52	39	30	51	38	29	36	29	

Light Distribution

Degrees	Lumens	% Luminaire
0-30	954	26.0
0-40	1568	42.8
0-60	2819	76.9
0-90	3667	100.0

Average Luminance

Angle	End	45°	Cross
45	3972	3982	3958
55	3924	3987	3913
65	3841	3998	3812
75	3338	3824	3307
85	2139	2374	2135



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www.philips.com/luminaires

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