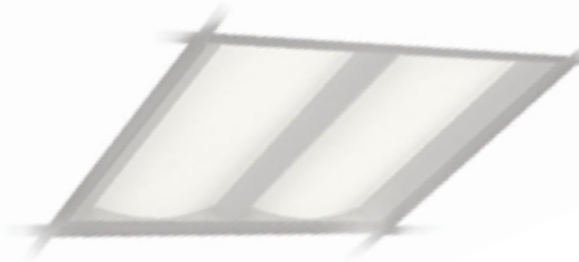


PHILIPS Day-Brite CFI

Recessed

DuaLED 2x2

with Power over ethernet
(PoE) technology



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

The Philips Day-Brite / Philips CFI DuaLED recessed is a highly efficient, visually comfortable, architecturally styled recessed LED luminaire, designed with a minimalistic strategy to achieve sustainable objectives. Its clean, modern design offers a fresh variation on the popular dual chamber theme and provides architectural styling compatible with virtually any area.

Ordering guide

Example: 2DLG25L840-2-D-LV-POE

Width	Family	Ceiling Type	Lumens	Color	Length	Diffuser	Voltage	Driver	Options
<input type="text" value="2"/>	<input type="text" value="DL"/>	<input type="text" value="G"/>	<input type="text" value="25L"/>	—	<input type="text" value="2"/> —	<input type="text" value="D"/> —	<input type="text" value="LV"/> —	<input type="text" value="POE"/> —	
2 2'	DL DuaLED	G Grid	25L 2500 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (Opal)	LV Low voltage	POE Power over ethernet	SYS PoE daylight and motion detection

Accessories (order separately)

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

DuaLED recessed 2x2 LED

with Power over ethernet (PoE), 2500 lumens

Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalist strategy to achieve sustainable objectives.
- Low profile configuration is only 2-11/16" high and is compatible with virtually any plenum.
- Clean, modern design offers a fresh variation on the popular dual chamber theme and provides architectural styling compatible with virtually any area.
- Soft opal diffusers with large luminous area minimize apparent brightness and provide high visual comfort perfect for a wide variety of general lighting applications like offices, schools, retail, or healthcare.
- 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.
- Minimum 80CRI provides excellent color rendering.
- 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 non-insulated ceilings (Type Non-IC).

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

- Philips PoE lighting controller.
- Wire access cover provides RJ45 connection point for PoE network.
- Integral sensor options for occupancy and daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Excellent luminaire efficacy provides significant energy savings.
- PoE lighting controller and LED boards are easily accessible from below without tools. Multiple LED boards are individually replaceable if needed via plug-in connectors to ensure long service life.
- 5 year limited warranty including LED boards and PoE lighting controller. Visit www.philips.com/warranties for complete warranty information.
- High efficiency LEDs have a minimum 50,000 hour rated life (L70). Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing
- cETLus listed to UL and CSA standards, suitable for damp locations.

Enclosure

- Dual chamber configuration utilizes two diffusers with large surface area for brightness control.
- Opal diffusers provide soft, comfortable lighting while maintaining high efficiency.
- Diffusers require no frames or fasteners and can be easily removed from below without tools if needed.

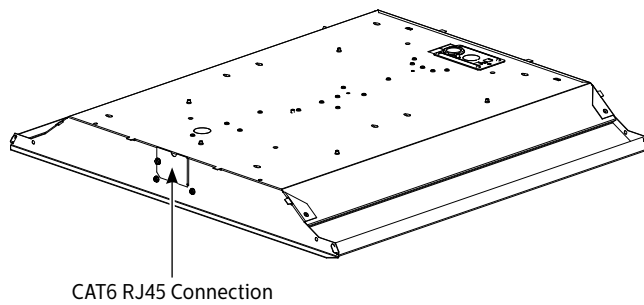
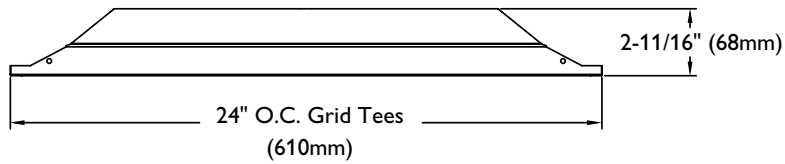
General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lamp holders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

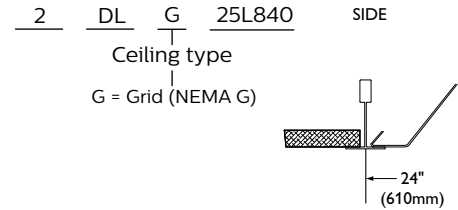
DuaLED recessed 2x2 LED

with Power over ethernet (PoE), 2500 lumens

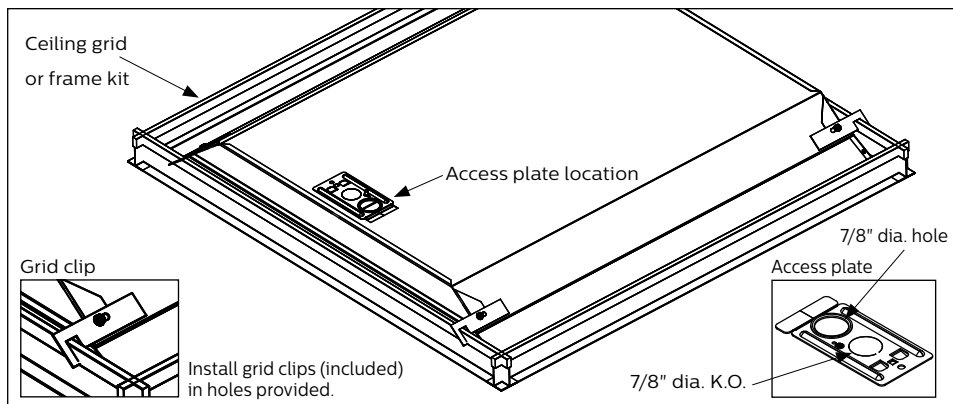
Dimensions



Ceiling Configuration



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 24" spacing.



DuaLED recessed 2x2 LED

with Power over ethernet (PoE), 2500 lumens

Photometry

2x2 DuaLED, 3500K, 2500 nominal delivered lumens

Catalog No.	2DLG25L835-2-D-LV-POE	Candela distribution					Light Distribution			Average Luminance			
Test No.	34284	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.3	0	885	885	885	885	0-30	688.	26.8	45	2986.	3039.	3096.
Lamp Type	LED	5	884	882	883	882	0-40	1127.	43.9	55	2864.	2943.	3017.
Lumens	2567	15	852	852	854	852	0-60	1999.	77.8	65	2695.	2802.	2846.
Input Watts	27	25	787	789	795	789	0-90	2567.	100.0	75	2461.	2533.	2542.
		35	695	699	710	699	0-180	2568.	100.0	85	2121.	2071.	2204.
		45	582	592	603	592							
		55	452	465	477	465							
		65	314	326	331	326							
		75	175	181	181	181							
		85	51	50	53	50							
Comparative yearly lighting energy cost per 1000 lumens – \$2.55 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.													

2x2 DuaLED, 4000K, 2500 nominal delivered lumens

Catalog No.	2DLG25L840-2-D-LV-POE
Test No.	34283
S/MH	1.3
Lamp Type	LED
Lumens	2499
Input Watts	27
Comparative yearly lighting energy cost per 1000 lumens – \$2.64 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.	

Candela distribution				
Vertical Angle	0°	45°	90°	-45°
0	852	852	852	852
5	850	848	850	848
15	820	818	821	818
25	755	756	763	756
35	663	667	678	667
45	550	560	572	560
55	452	465	476	465
65	313	326	331	326
75	175	180	182	180
85	50	49	53	49

Light Distribution		
Degrees	Lumens	% Luminaire
0-30	661.	26.4
0-40	1079.	43.2
0-60	1932.	77.3
0-90	2499.	100.0
0-180	2499.	100.0

Average Luminance			
Angle	End	45°	Cross
45	2824.	2908.	2975.
55	2790.	2838.	2898.
65	2656.	2767.	2809.
75	2430.	2495.	2516.
85	2069.	2032.	2185.

Coefficients of Utilization									
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
Ceiling (pcc)	80%			70%			50%		
Wall (pw)	70	50	30	70	50	30	50	30	
RCR	Zonal cavity method - Effective floor reflectance = 20%								
Room Cavity Ratio	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	66	57
	5	75	61	53	72	60	52	58	51
	6	68	56	46	67	55	46	53	45
	7	64	50	41	61	50	40	47	40
	8	59	46	36	57	45	36	44	35
	9	56	41	34	54	41	34	40	33
10	52	39	30	51	38	30	36	29	

