

PHILIPS Day-Brite CFI

Recessed

ClearAppeal
LED 2x2

with Power over ethernet
(PoE) technology



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

The Philips Day-Brite / Philips CFI ClearAppeal LED recessed architectural luminaire offers smooth brightness across the face of the luminaire and provides excellent visual comfort. Its modern architectural styling complements any space

Ordering guide

Example: 2CAG24L840-2-DS-LV-POE

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	CA		24L	—	2	DS	LV	POE	
2 2'	CA ClearAppeal	G Grid F Flange	24L 2400 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	DS Diffuse (smooth)	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

Application

- Modern architectural styling to complement any space.
- Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Ideal for modern offices, schools and retail environments.
- Excellent luminaire efficacy provides significant energy savings.
- Minimum 80CRI provides excellent color rendering
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.
- Grid and Flange models available.

Construction/Finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Captive hinged door frame assembly for maintenance accessibility.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- Suitable for end-to-end mounting.
- End K.O.s for thru wiring or conduit entry in shallow plenums.

Electrical

- Philips PoE lighting controller.
- Philips PoE lighting controller, and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- 5 year limited warranty including LED boards and PoE lighting controller. Visit www.philips.com/warranties for complete warranty information.
- High efficiency LEDs have 50,000 hour L70 rated life (defined as 70% lumen maintenance.)
- Wire access cover provides RJ45 connection point for PoE network.
- cETLus listed to UL and CSA standards, suitable for damp locations.
- Integral sensor options for occupancy and daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.

Enclosure

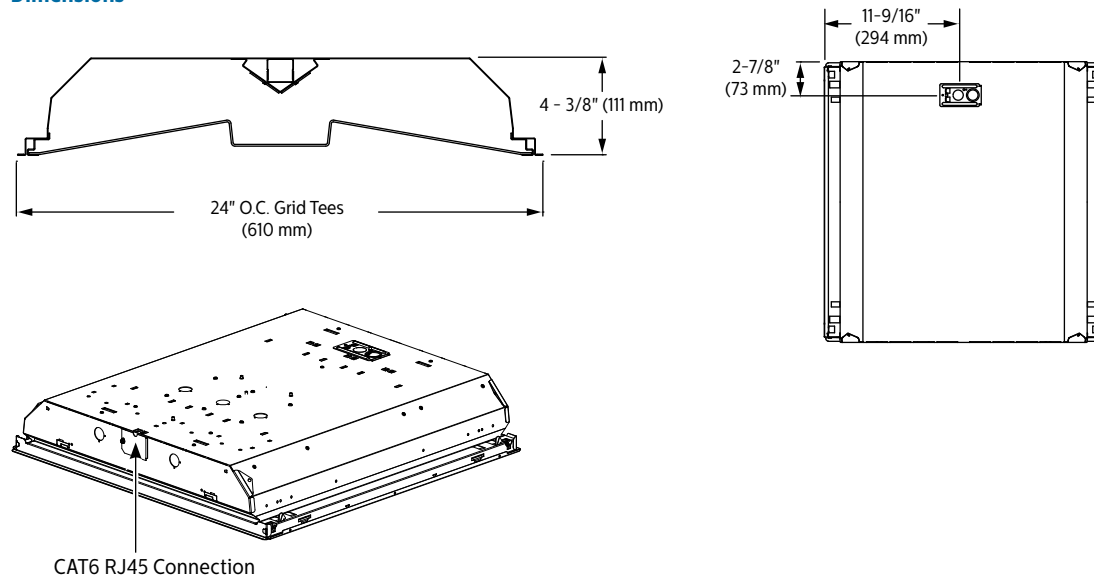
- Single piece thermo formed acrylic lens with smooth center diffuser (DS).



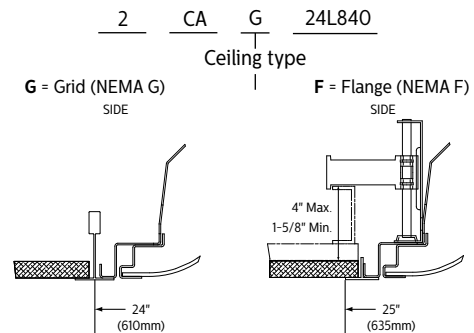
2CA ClearAppeal LED recessed 2x2

with Power over ethernet (PoE), 2400 lumens

Dimensions

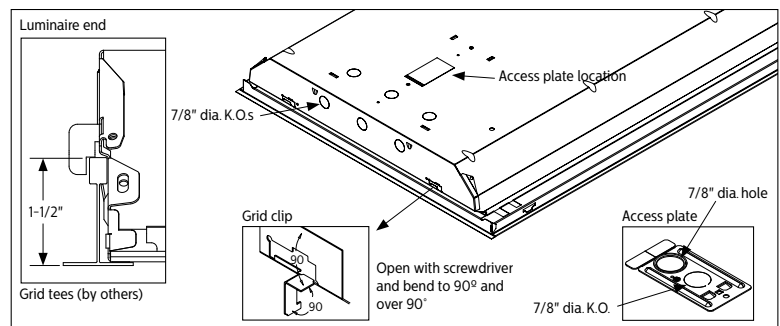


Ceiling configuration



(NEMA Type G)
Lay-in acoustical ceilings using
exposed grid suspension, with tees
for luminaires on 24" x 48" spacing.

(NEMA Type F)
Flange for acoustical ceilings using concealed
mechanical suspension. Swing-jack mounting
brackets: adjustment 4" max and 1-5/8" min.
Refer to sheet 801-CL for cut-out information.



2CA ClearAppeal LED recessed 2x2

with Power over ethernet (PoE), 2400 lumens

2x2 ClearAppeal LED recessed, 4000K, 2400 nominal delivered lumens

Catalog No.	2CAG24L840-2-DS-LV-POE
Test No.	34396
S/MH	1.3
Lamp Type	LED
Lumens	2397
Input Watts	25

Comparative yearly lighting energy cost per 1000 lumens – **\$2.47** 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.

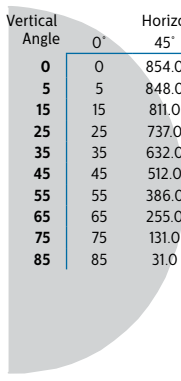
Candela distribution				
Vertical Angle	Horizontal Angle			
	0°	45°	90°	-45°
0	848	848	848	848
5	844	845	846	845
15	807	816	823	816
25	731	752	764	752
35	628	658	679	658
45	510	547	573	547
55	383	424	456	424
65	254	300	334	300
75	130	179	209	179
85	31	49	49	49

Light Distribution		
Degrees	Lumens	% Luminaire
0-30	656	27.3
0-40	1066	44.5
0-60	1865	77.8
0-90	2398	100.0
0-180	2398	100.0

Average Luminance			
Angle	End	45°	Cross
45	2367	2543	2662
55	2195	2427	2612
65	1971	2328	2597
75	1649	2277	2658
85	1150	1843	1828

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	104	98	106	101	96	96	93
	2	97	90	82	95	88	81	84	79
	3	90	79	70	86	77	69	73	68
	4	81	69	60	80	68	59	66	58
	5	75	61	53	72	60	53	58	52
	6	69	56	46	68	55	46	53	46
	7	65	51	41	63	50	41	48	40
	8	59	46	38	58	46	38	45	36
	9	56	42	34	55	41	34	40	34
10	53	39	32	51	39	30	38	30	

2x2 ClearAppeal LED recessed, 3500K, 2400 nominal delivered lumens

Catalog No. 2CAG24L835-2-DS-LV-POE		Candela distribution					Light Distribution			Average Luminance				
Test No.	34393		Vertical Angle	Horizontal Angle				Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.3		0°	45°	90°	-45°	0-30	660	27.4	45	2380.	2556	2681.	
Lamp Type	LED		0	0	854.0	854	854	854	1073	44.5	55	2210.	2439.	2630.
Lumens	2412		5	5	848.0	852	852	852	1877	77.8	65	1986.	2347.	2616.
Input Watts	24		15	15	811.0	821	828	821	2412	100.0	75	1658.	2295.	2665.
			25	25	737.0	756	769	756	2413	100.0	85	1150.	1832.	1870.
			35	35	632.0	663	682	663						
			45	45	512.0	550	577	550						
			55	55	386.0	426	459	426						
			65	65	255.0	302	337	302						
			75	75	131.0	181	210	181						
			85	85	31.0	49	50	49						
Comparative yearly lighting energy cost per 1000 lumens – \$2.38 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.														
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