

PHILIPS Day-Brite CFI

Recessed

ClearAppeal
LED 2x2

3000, 3400,
or 3800 lumens



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

The Philips Day-Brite / Philips CFI ClearAppeal LED recessed architectural provides excellent visual comfort. Its modern architectural styling complements any space.

Ordering guide

Example: 2CAG30L840-2-DS-UNV-DIM

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2 2'	CA			—	2 2'	DS	—	—	
2 2'	CA ClearAppeal	G Grid F Flange	30L 3000 nominal delivered lumens 34L 3400 nominal delivered lumens 38L 3800 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 347 347V	DIM 0-10V dimming Step dimming to 40% input power Lutron Hi-lume A 1% dimming Lutron EcoSystem Series 5 5% dimming L3D ¹ LDE ¹	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/SW 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires GLR Fusing, fast blow EMLED Integral emergency battery pack (requires ballast enclosure on top of luminaire) OCC Integral sensor, occupancy DAY Integral sensor, daylighting DAYOCC Integral sensor, daylighting and occupancy SWZG2 ^{2,3} SpaceWise automated wireless technology for integrated occupancy and daylight harvesting CHIC Chicago Plenum rated

Footnotes

- 1 Specify for 30L or 34L lumen packages only. Consult factory for higher lumen packages.
- 2 SWZG2 option provides occupancy sensing suitable for rooms with multiple luminaires, along with daylight harvesting with auto-calibration. See page 2 for more information.
- 3 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.

Accessories (order separately)

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting
- **LRM1743** – External sensor to increase occupancy coverage area of SpaceWise luminaire groups
- **SWZ-REMOTE** – SpaceWise handheld remote for grouping and configuration (at least one remote required for any SpaceWise installation)
- **UID8451/10** – Wireless Dimmer Switch Selector
- **UID8461/10** – Wireless Scene Selector



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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.
- High CRI source 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

- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- 0-10V dimming is standard.
- Five-year luminaire limited warranty including LED boards and driver.
- High efficiency LEDs have 50,000 hour L70 rated life (defined as 70% lumen maintenance.)
- ETL listed to UL standards, suitable for damp locations.
- ClearAppeal luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).

Enclosure

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

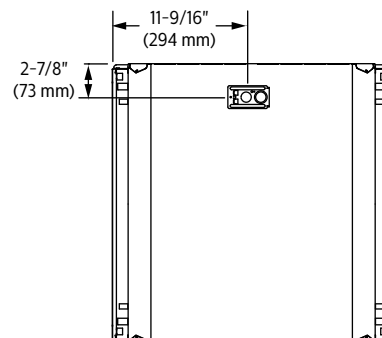
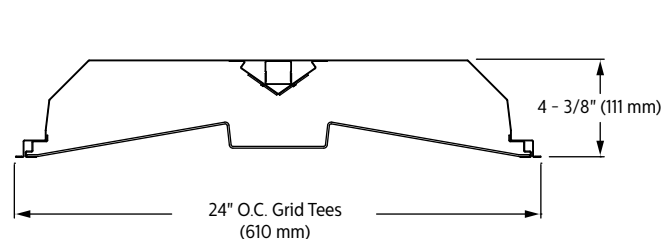
SpaceWise Technology (SWZG2)

- Optional SpaceWise automated wireless technology provides integrated occupancy sensing and daylight harvesting for additional control and energy savings.
- Requiring no system re-wiring, SpaceWise technology is appropriate for retrofit or new design and is an ideal replacement system for typical office layouts.
- Occupancy sensors are integral to each luminaire, with embedded automatic dimming behaviors appropriate to multiple office applications. Applications modes are selected using the handheld remote control, including open plan office, private office, conference room, and corridor.
- Daylight sensors are integral to each luminaire, eliminating the need for daylight zoning. Daylight sensing is automatic and re-calibration occurs daily when luminaires turn on.
- Open plan office mode offers occupant friendly granular dimming for maximum energy savings with no compromise to light levels or visual quality. Luminaires in large rooms and open plan areas are grouped together up to a maximum of 50 using a handheld remote, and max light output can be tuned. Granular dimming then provides full light output for occupied workstations, and non-occupied workstations stay at a background level to ensure visual quality. Grouped luminaires will dim to off when no presence is detected in the group.
- SpaceWise remote control must be purchased separately. Other peripherals include code compliant, wireless, batteryless switches and external sensors.
- Visit philips.com/spacewise for more information about SpaceWise technology.

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, 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.

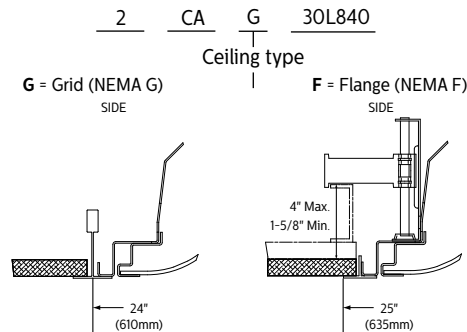
Dimensions



2CA ClearAppeal LED recessed 2x2

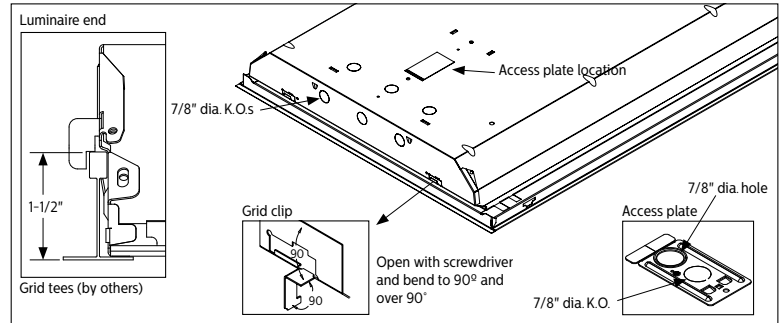
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Ceiling configuration



(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.



Photometry

2x2 ClearAppeal LED recessed, 3000 nominal delivered lumens

LER - 95

Candlepower		Light Distribution				Average Luminance						
Catalog No.	2CAG30L840-2-DS-UNV	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	33917	0	1081	1081	1081	0-30	832	27.6	45	3004	3197	3330
S/MH	1.2	5	1074	1077	1077	0-40	1350	44.8	55	2787	3044	3252
Lamp Type	LED	15	1026	1037	1044	0-60	2353	78.1	65	2509	2911	3210
Lumens	3015	25	929	953	966	0-90	3014	100.0	75	2107	2826	3212
Input Watts	31.6	35	796	831	852	0-180	3015	100.0	85	1484	2105	2268
<p>Comparative yearly lighting energy cost per 1000 lumens – \$2.53 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>		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		109	104	98	106	101	96	96	93	
2		98	90	82	95	88	81	84	79			
3		90	79	70	86	78	69	75	68			
4		81	69	60	80	68	59	66	58			
5		76	63	54	72	60	53	58	52			
6		69	56	46	68	55	46	54	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	40	32	52	39	30	38	30			

2x2 ClearAppeal LED recessed, 3400 nominal delivered lumens

LER - 94

Catalog No.		2CAG34L840-2-DS-UNV		Candlepower				Light Distribution			Average Luminance			
Test No.		33915		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH		1.2		0	1236	1236	1236	0-30	952	27.6	45	3438	3656	3816
Lamp Type		LED		5	1228	1232	1231	0-40	1544	44.7	55	3194	3486	3730
Lumens		3452		15	1172	1186	1193	0-60	2694	78.0	65	2877	3339	3678
Input Watts		36.8		25	1062	1089	1105	0-90	3452	100.0	75	2425	3246	3681
				35	911	950	975	0-180	3453	100.0	85	1710	2409	2638
				45	740	787	821							
				55	558	609	651							
				65	370	429	473							
				75	191	256	290							
				85	45	64	70							
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.														
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	109	104	100	106	102	97	97	93						
2	98	91	83	95	89	82	84	80						
3	90	80	71	88	78	70	75	68						
4	82	70	61	81	69	60	67	59						
5	76	63	54	73	61	54	59	53						
6	69	56	47	68	56	47	54	46						
7	65	52	42	64	51	42	48	41						
8	60	46	39	58	46	39	45	38						
9	56	42	34	55	42	34	41	34						
10	53	40	32	52	40	32	39	32						

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2x2 ClearAppeal LED recessed, 3800 nominal delivered lumens

LER – 92

Catalog No.		2CAG38L840-2-DS-UNV										
Test No.		34019										
S/MH		1.2										
Lamp Type		LED										
Lumens		3845										
Input Watts		41.6										
Comparative yearly lighting energy cost per 1000 lumens – \$2.61 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				
Angle	End	45	Cross	
0	1379	1379	1379	
5	1372	1374	1374	
15	1310	1323	1333	
25	1189	1216	1235	
35	1021	1061	1090	
45	829	878	917	
55	624	678	726	
65	413	476	525	
75	212	282	322	
85	50	72	70	

Light Distribution				Average Luminance			
Degrees	Lumens	% Luminaire		Angle	End	45°	Cross
0-30	1062	27.6		45	3851	4081	4262
0-40	1724	44.9		55	3577	3885	4156
0-60	3006	78.2		65	3214	3704	4081
0-90	3844	100.0		75	2693	3579	4088
0-180	3844	100.0		85	1903	2697	2644

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	109	104	98	106	101	96	96	93			
2	98	90	82	95	88	81	84	79			
3	90	79	70	86	78	69	75	68			
4	81	69	60	80	68	60	66	58			
5	76	63	54	73	61	53	58	52			
6	69	56	46	68	56	46	54	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	40	32	52	39	30	38	30			

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