

PHILIPS
Day-Brite
CFI

Recessed

ClearAppeal
LED 2x4

3600, 4200, 5500,
or 7000 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: 2CAG42L840-4-DS-UNV-DIM

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	CA				4	DS			
2 2'	CA ClearAppeal	G Grid F Flange	36L 3600 nominal delivered lumens 42L 4200 nominal delivered lumens 55L 5500 nominal delivered lumens 70L 7000 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 347 347V	DIM 0-10V dimming Step dimming to 40% input power L3D ³ Lutron Hi-lume A 1% dimming LDE ³ Lutron EcoSystem Series 5 5% dimming LDEH Lutron EcoSystem Series H 1% dimming	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 ^{4,5} SpaceWise automated wireless technology for integrated occupancy and daylight harvesting CHIC Chicago Plenum rated

Footnotes

- SDIM not available for 70L lumen option
- Specify for 36L lumen package only. Consult factory for additional lumen packages.
- Specify for 36L or 42L lumen packages only. Consult factory for additional lumen packages.
- SWZG2 option provides occupancy sensing suitable for rooms with multiple luminaires, along with daylight harvesting with auto-calibration. See page 2 for more information.
- Must order SWZ-REMOTE SpaceWise handheld remote with each system order.

Accessories (order separately)

- FMA24 – 2'x4' "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



2CA ClearAppeal LED recessed 2x4

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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).

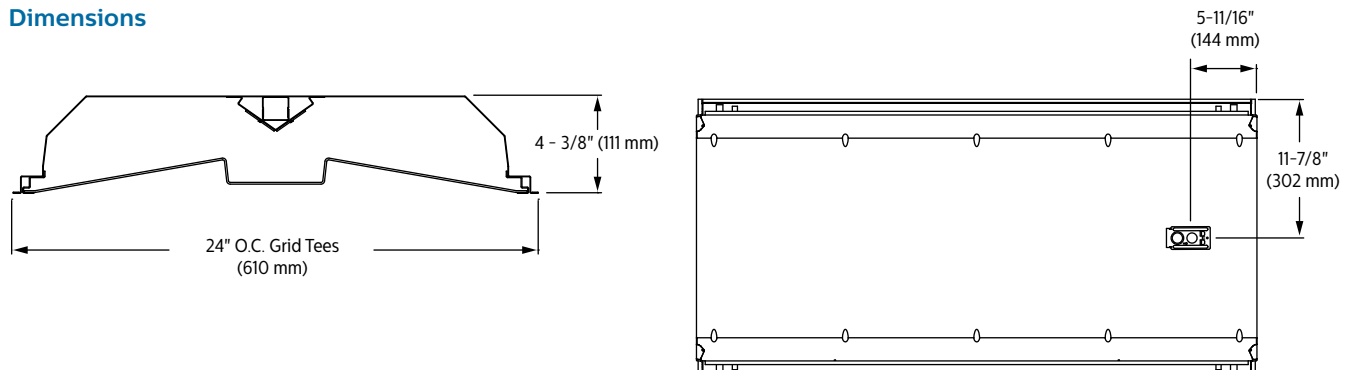
SpaceWise Technology (SWZG2)

- 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.

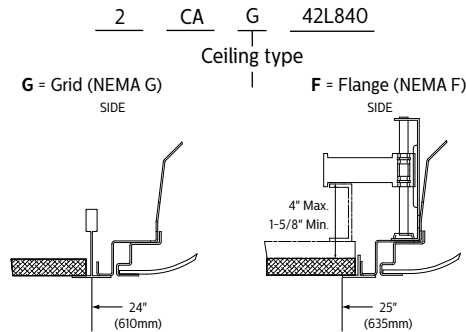
Dimensions



2CA ClearAppeal LED recessed 2x4

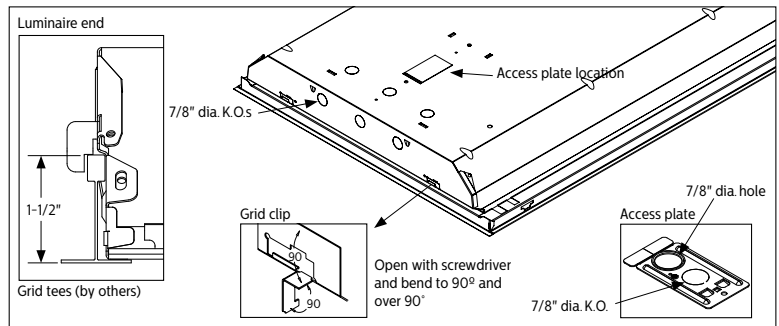
3600, 4200, 5500, or 7000 lumens

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

2x4 ClearAppeal LED recessed, 3600 nominal delivered lumens

LER - 110

Catalog No.	2CAG36L840-4-DS-UNV	Candlepower				Light Distribution			Average Luminance						
Test No.	34003	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH	1.3	0	1220	1220	1220	0-30	949	26.2	45	1742	1806	1848			
Lamp Type	LED	5	1212	1215	1218	0-40	1554	43.0	55	1665	1767	1844			
Lumens	3617	15	1167	1174	1180	0-60	2767	76.5	65	1535	1731	1873			
Input Watts	32.8	25	1077	1089	1099	0-90	3616	100.0	75	1302	1772	1992			
		35	949	970	983				85	836	1423	1392			
		45	794	823	842	Coefficients of Utilization									
		55	615	653	681	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
		65	418	471	510	pcc	80			70			50		
		75	217	295	332	pw	70	50	30	70	50	30	50	30	
		85	47	80	78	RCR									
						0	118	118	118	115	115	115	111	111	
						1	108	103	98	105	101	96	96	93	
						2	97	89	81	94	88	81	83	78	
						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	30	36	29	
Comparative yearly lighting energy cost per 1000 lumens - \$2.18 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.															

2x4 ClearAppeal LED recessed, 4200 nominal delivered lumens

LER - 110

Catalog No.	2CAG42L840-4-DS-UNV	Candlepower				Light Distribution			Average Luminance						
Test No.	34005	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH	1.3	0	1482	1482	1482	0-30	1153	26.2	45	2119	2196	2245			
Lamp Type	LED	5	1472	1476	1479	0-40	1888	42.9	55	2022	2153	2241			
Lumens	4406	15	1417	1427	1433	0-60	3366	76.4	65	1866	2115	2280			
Input Watts	40.1	25	1309	1324	1334	0-90	4406	100.0	75	1585	2181	2428			
		35	1154	1178	1193	0-180	4406	100.0	85	1010	1708	1753			
		45	965	1000	1023	Coefficients of Utilization									
		55	747	795	828	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
		65	508	576	621	pcc	80			70			50		
		75	264	364	405	pw	70	50	30	70	50	30	50	30	
		85	57	96	98	RCR									
						0	118	118	118	115	115	115	111	111	
						1	108	103	98	105	101	96	96	93	
						2	97	89	81	94	86	81	83	78	
						3	89	78	69	86	77	68	73	67	
						4	81	68	59	79	68	58	65	57	
						5	75	61	52	72	59	52	57	51	
						6	68	55	46	67	54	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	30	36	29	
Comparative yearly lighting energy cost per 1000 lumens - \$2.18 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.															

2CA ClearAppeal LED recessed 2x4

3600, 4200, 5500, or 7000 lumens

2x4 ClearAppeal LED recessed, 5500 nominal delivered lumens

LER – 108

Catalog No. 2CAG55L840-4-DS-UNV	Candlepower				Light Distribution			Average Luminance														
	Test No. 34006	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross										
S/MH 1.3	0	1870	1870	1870	1870	0-30	1454	26.2	45	2674	2770	2835										
Lamp Type LED	5	1858	1863	1867	1867	0-40	2383	42.9	55	2556	2713	2830										
Lumens 5553	15	1788	1800	1809	1809	0-60	4245	76.5	65	2364	2663	2884										
Input Watts 51.3	25	1651	1670	1685	1685	0-90	5551	100.0	75	2009	2731	3076										
Comparative yearly lighting energy cost per 1000 lumens – \$2.22 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.	35	1457	1486	1507	1507	Coefficients of Utilization																
	45	1218	1261	1291	1291	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																
	55	944	1002	1045	1045	pcc	80			70			50									
	65	643	725	785	785	pw	70	50	30	70	50	30	50	30								
	75	335	455	513	513	RCR																
	85	73	123	121	121	0	118	118	118	115	115	115	111	111								
														1	108	103	98	105	101	96	96	93
														2	97	89	81	94	88	81	83	78
													3	89	78	69	86	77	68	73	67	
													4	81	68	59	79	68	58	65	57	
													5	75	61	52	72	60	52	57	51	
													6	68	55	46	67	54	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	30	36	29	

2x4 ClearAppeal LED recessed, 7000 nominal delivered lumens

LER – 105

Catalog No. 2CAG70L840-4-DS-UNV	Candlepower				Light Distribution			Average Luminance														
	Test No. 34013	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross										
S/MH 1.3	0	2442	2442	2442	2442	0-30	1900	26.1	45	3486	3625	3703										
Lamp Type LED	5	2425	2433	2439	2439	0-40	3113	42.8	55	3332	3557	3696										
Lumens 7269	15	2333	2351	2363	2363	0-60	5549	76.3	65	3077	3505	3760										
Input Watts 69.2	25	2155	2184	2200	2200	0-90	7269	100.0	75	2600	3628	4005										
Comparative yearly lighting energy cost per 1000 lumens – \$2.29 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.	35	1898	1944	1968	1968	Coefficients of Utilization																
	45	1588	1651	1686	1686	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																
	55	1231	1314	1365	1365	pcc	80			70			50									
	65	838	954	1023	1023	pw	70	50	30	70	50	30	50	30								
	75	433	605	668	668	RCR																
	85	93	157	157	157	0	118	118	118	115	115	115	111	111								
														1	108	103	98	105	101	96	96	93
														2	97	89	81	94	86	81	83	78
													3	89	78	69	86	77	68	73	67	
													4	81	68	59	79	68	58	65	57	
													5	75	61	52	72	59	52	57	51	
													6	68	55	46	67	54	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	

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