

Day-Brite / CFI ClearAppeal LED recessed is a fully luminous aperture luminaire providing modern appeal to architectural spaces. Featuring a regressed aesthetic with balanced glare gradient, ClearAppeal delivers high performing even illumination and high visual comfort. Its architectural style, coupled with controls options, makes ClearAppeal an ideal choice for applications such as office, institutional, and healthcare, where energy savings and customized effect are desired.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide – standard & wireless controls

Standard configurations available with all choices, unless otherwise noted. Base configurations selections indicated by blue.

example: 2CAXG38L840-4-DS-UNV-DIM-SWZDT

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser	Voltage	Driver	Options
2	CAX	G				4	DS			
2 2'	CAX ClearAppeal Gen 2	G Grid	Standard configurations 38L 3800 43L 4300 48L 4800 54L 5400 74L 7400 Base configuration 42B 4200	Blank Standard H ⁵ High	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 347V	DIM ¹ Dimming Step dimming to 40% input power SDIM LDE Lutron LDE5, 5% dimming LDEH Lutron LDE1, 1% dimming DALI DALI 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 F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow GTD/E⁶ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR^{4,7} UL924 listed Bodine GTD factory installed between driver and sensor BSL10LST⁴ Bodine 10W selftesting battery pack BSL6LST⁴ Bodine 6W selftesting battery pack DSC Quick driver disconnect IAP² Integral Interact Pro RF sensor, enables wireless connected lighting control IAO² Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control SWZDT² Integral sensor, daylighting and occupancy, advanced grouping with dwell time CHIC³ Chicago Plenum rated

Ordering guide – PoE controls

example: 2CAXG38L840-4-DS-LV-POE-IAO

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser
2	CAX	G				4	DS
2 2'	CAX ClearAppeal Gen 2	G Grid	Standard configurations 38L 3800 43L 4300 48L 4800	Blank Standard	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	DS Diffuse (smooth)
Voltage		Driver		Options			
LV		POE					
LV Low voltage		POE Power over ethernet		IAO Integral Interact Office daylighting and occupancy sensor, enables wired connected lighting control EMPOE 600lm integral emergency driver and battery pack			

Footnotes

- 1 Integral controls options dimmable to 5% via wireless wall switch. Non-controls options are 0-10v dimmable to 1% for Standard configurations, and to 10% for Base configurations.
- 2 Specify only with -DIM driver option.
- 3 CHIC option not provided with air return functionality.
- 4 Emergency options not available with 347V.
- 5 High efficacy option may only be ordered with Standard lumen configurations.
- 6 Must be installed in conjunction with a UL1008 device.
- 7 Must be ordered with an integral sensing option.

Accessories (order separately)

- **FSF424** – 2'x4' surface mount field installation kit (field assembled)
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" ceiling
- **CGXDS24L** – 2'x4' ClearAppeal Gen2 replacement lens
- **CGXDS24LC** – 2'x4' ClearAppeal Gen2 with controls replacement lens



2CAX ClearAppeal recessed 2x4

up to 7400 lumens

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complement any space.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Available in standard efficacy and high efficacy (H) configurations up to 130lm/W.
- 80 CRI minimum source provides a balanced spectral power distribution.
- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA24 accessory (ordered separately).

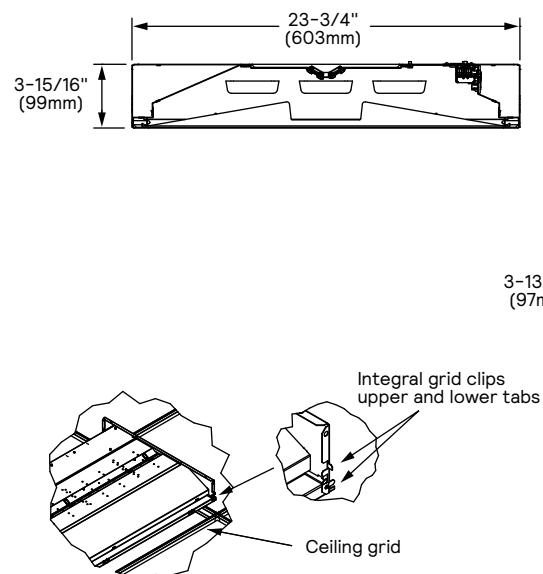
Construction/Finish

- Robust and durable dieformed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for access to LED boards and driver(s).
- Unique spring retainers ensure the diffuser is centered in the housing opening at all times.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Air return functionality is standard for all configurations. See air flow and noise data on page 4.

Energy data

Configuration	Nominal CCT/ CRI	Flux (lm)	Input Power (W)	Efficacy (LPW)	DLC
2CAXG42B835	3500K/80	4229	34	124	Standard
2CAXG42B840	4000K/80	4314	34	129	Premium
2CAXG38L835	3500K/80	3865	32	120	Standard
2CAXG38L840	4000K/80	3873	32	120	Standard
2CAXG43L835	3500K/80	4302	36	120	Standard
2CAXG43L840	4000K/80	4332	36	119	Standard
2CAXG48L835	3500K/80	4854	41	118	Standard
2CAXG48L840	4000K/80	4844	41	117	Standard
2CAXG54L835	3500K/80	5568	48	116	Standard
2CAXG54L840	4000K/80	5551	48	115	Standard
2CAXG74L835	3500K/80	7509	70	108	Standard
2CAXG74L840	4000K/80	7470	70	106	Standard

Dimensions



- Suitable for end to end continuous row mounting. 1" gap between luminaires requires chase nipple to accommodate through wiring (by others).
- Sheetmetal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Electrical

- Driver and LED board are accessible from below by easy removal of lens.
- Non-controls Base configurations 0-10V dimmable to 10%.
- Non-controls Standard configurations 0-10V dimmable to 1%.
- Standard configurations with controls options dimmable via wireless switches (see below).
- Predicted L70 lumen maintenance up to 85,000 hours at 25°C ambient for all configurations.
- Emergency battery packs accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Validation

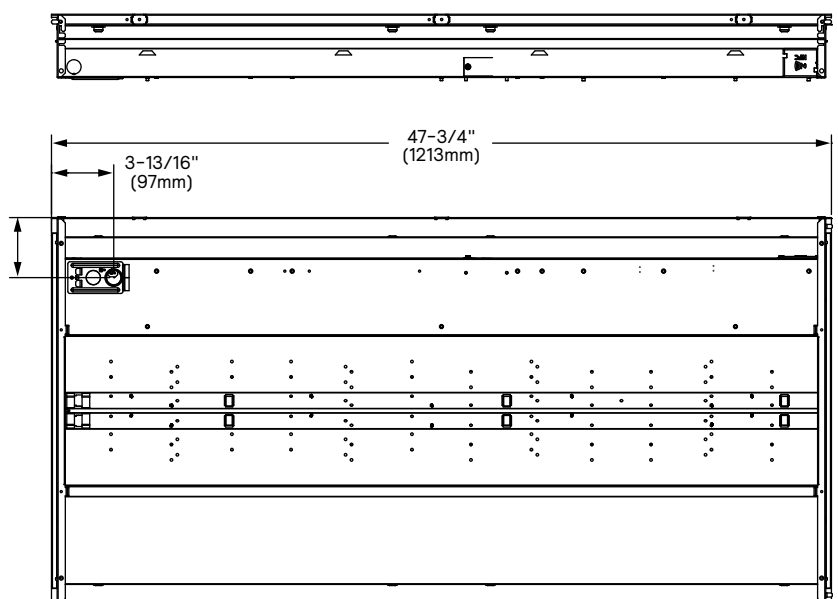
- cETLus listed for use in damp locations
- Rated for direct contact with insulation (IC)
- CCEA Chicago Plenum listed
- ClearAppeal luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL

Environment

- Rated for dry or damp locations in operating ambient temperatures 0-30°C (32-86°F). 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. Not suitable for natatorium environments.

Warranty

- 5 year manufacturer's limited warranty.
- Visit signify.com/warranties for complete warranty information.



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Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping and dwell time
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at www.componentcloud.philips.com/#!/register;first=true
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

ClearAppeal shown with integral sensor



Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to **small and medium businesses** without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone)
- Prepare commissioning remotely via Interact Pro portal
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1)
- For more information on Interact Pro visit: www.interact-lighting.com/pro
- For more information on Interact Ready visit: www.philips.com/interact-ready

Interact Office (IAO)

- A wireless IoT connected lighting solution for **large enterprises** that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

Wired Controls Options

Interact Office Wired (PoE)

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

2CAX ClearAppeal recessed 2x4

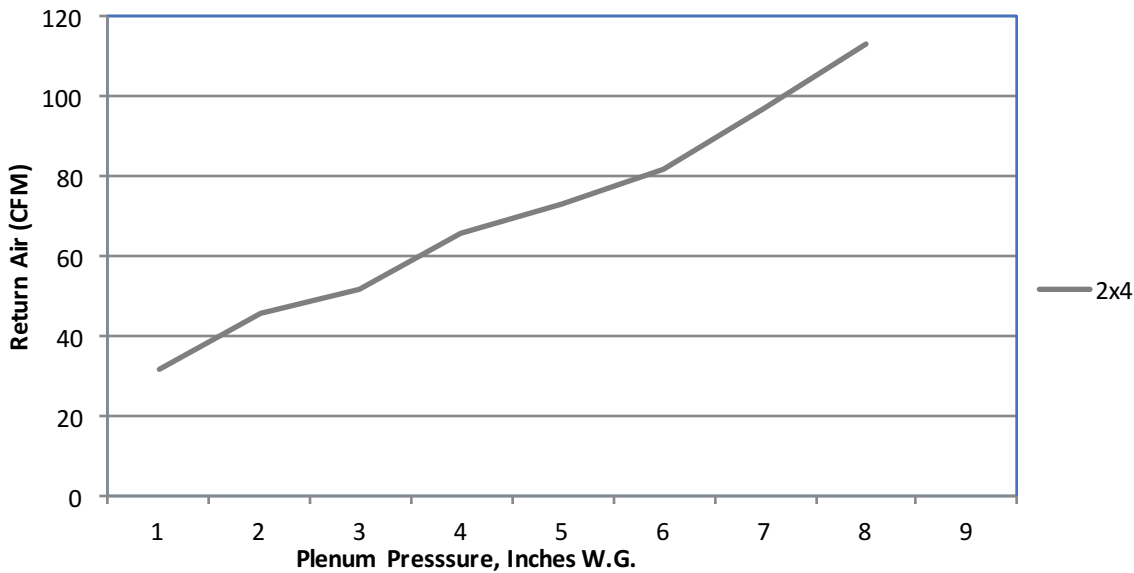
up to 7400 lumens

Air return



Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Return Air Data



2x4 Return Air – noise criteria								
CFM	27	37	53	62	71	80	90	102
NC (dB)	<15	24	25	29	33	35	38	40

2CAX ClearAppeal recessed 2x4

up to 7400 lumens

Photometry

2x4 ClearAppeal recessed LED, base configuration, 4300 nominal delivered lumens

LER - 129

Catalog No.	2CAXG42B840-4-DS-UNV-DIM
Test No.	40709
S/MH	1.2
Lamp Type	LED
Lumens	4314
Input Watts	34

Comparative yearly lighting energy cost per 1000 lumens – **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the 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	Back-45
0	1521	1521	1521	1521
5	1494	1515	1526	1515
15	1430	1455	1470	1455
25	1310	1340	1355	1340
35	1143	1182	1195	1182
45	946	989	1007	989
55	725	776	799	776
65	493	555	588	555
75	239	320	352	320
85	56	88	82	88

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1169	27.1
0-40	1905	44.1
0-60	3352	77.7
0-90	4315	100.0
0-180	4316	100.0

Average Luminance

Zone	End	45°	Cross
45	2076	2171	2210
55	1963	2101	2164
65	1810	2038	2161
75	1436	1920	2111
85	996	1562	1461

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
Wall	70	50	30	70	50	30	50	30	
RCR									
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	57	46	38	44	36	
9	56	42	34	55	41	34	40	34	
10	53	39	30	51	39	30	38	30	

2x4 ClearAppeal recessed LED, standard configuration, 4300 nominal delivered lumens

LER - 119

Catalog No.	2CAXG43L840-4-DS-UNV-DIM
Test No.	40646
S/MH	1.3
Lamp Type	LED
Lumens	4333
Input Watts	36

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the 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	Back-45
0	1527	1527	1527	1527
5	1500	1521	1531	1521
15	1438	1463	1477	1463
25	1320	1350	1366	1350
35	1153	1191	1208	1191
45	955	997	1019	997
55	733	782	808	782
65	464	523	575	523
75	241	323	354	323
85	57	87	82	87

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1177	27.2
0-40	1919	44.3
0-60	3380	78.0
0-90	4334	100.0
0-180	4335	100.0

Average Luminance

Zone	End	45°	Cross
45	2098	2190	2237
55	1984	2116	2186
65	1704	1920	2111
75	1448	1935	2123
85	1023	1557	1456

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
Wall	70	50	30	70	50	30	50	30	
RCR									
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	44	36	
9	56	42	34	55	41	34	40	34	
10	53	39	30	51	39	30	38	30	

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