

# Day-Brite

## CFI

by  Signify

### Recessed

ClearAppeal LED 2x2

Up to 4400 lumens



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

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

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

**Example: 2CAG38L840-2-DS-UNV-DIM-SWZDT**

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	CA			–	2	DS	–	–	
2 2'	CA ClearAppeal	G Grid F Flange	<b>Standard configurations</b> 30L 3000 nominal delivered lumens 34L 3400 nominal delivered lumens 38L 3800 nominal delivered lumens 44L 4400 nominal delivered lumens  <u>Base configuration</u> 33B 3300 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 <sup>1,2</sup> SDIM Dimming Step dimming to 40% input power L3D <sup>3</sup> Hi-Lume A 1% dimming LDE <sup>4</sup> Lutron LDE5, 5% dimming DALI DALI dimming	AG Antimicrobial paint 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/E <sup>5</sup> Generator transfer device EMLED <sup>7</sup> Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED <sup>7,5</sup> Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) DSC Quick driver disconnect SWZG2 <sup>8,7</sup> Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning SWZDT <sup>6</sup> Integral sensor, daylighting and occupancy, advanced grouping with dwell time DAYOCC <sup>6</sup> Integral sensor, daylighting and occupancy, basic grouping CHIC Chicago Plenum rated

#### SpaceWise (SWZG2) accessories (order separately)

- 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

#### Other accessories (order separately)

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

#### Footnotes

- 1 Integral SWZDT and DAYOCC options dimmable to 5% via wireless wall switch. See page 2.
- 2 Non-controls and SWZG2 configurations are 0-10v dimmable to 1% for Standard configurations. Base configurations are 0-10v dimmable to 5%.
- 3 Specify for 38L lumen package only. Consult factory for other lumen packages.
- 4 Specify for 30L or 34L lumen packages only. Consult factory for other lumen packages.
- 5 Available only with Base configurations.
- 6 Specify only with -DIM driver option.
- 7 Must order SWZ-REMOTE SpaceWise handheld remote with each SWZG2 order.
- 8 Switching to auxiliary circuit in the event of utility power loss. Luminaire operates as normal including with integrated controls.



# 2CA ClearAppeal LED recessed 2x2

Up to 4400 lumens

## 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.
- 80 CRI minimum 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.

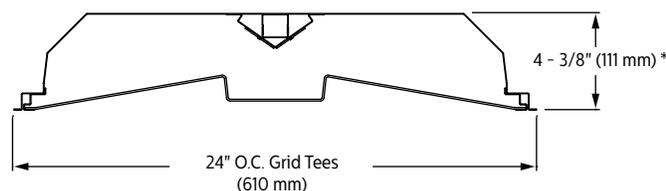
## Construction/Finish

- 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.

## Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x2 Standard	2CAG30L840	28	106
	2CAG34L840	33	105
	2CAG38L840	37	103
	2CAG44L840	46	95
2x2 Base	2CAG33B840	34	100

## Dimensions



\* EMLED and EMLED7 are 1-3/4" (45mm) deeper

## Electrical

- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- Non-controls Standard configurations are 0-10v dimming to 1%. Base configurations are to 5%.
- Five year limited luminaire warranty includes LED boards and driver. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.
- Predicted L70 lumen maintenance up to 70,000 hours for standard configurations and 50,000 hours for base configurations.
- To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1300lm for EMLED, and 900lm for EMLED7.
- cETLus 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).

## General Notes

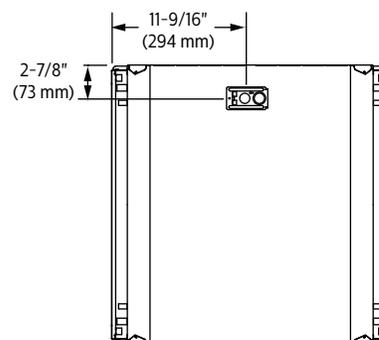
- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum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

## SpaceWise (SWZG2)

- Commissioning via SWZ-REMOTE handheld remote, must order a minimum of one per installation
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- 0-10v dimmable to 1%
- For more information on the sensor, please refer to [www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZG2\\_sensor.pdf](http://www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf)
- Visit [www.philips.com/spacewise](http://www.philips.com/spacewise) for more information about SpaceWise Technology (SWZG2)

## DAYOCC & SpaceWise DT (SWZDT)

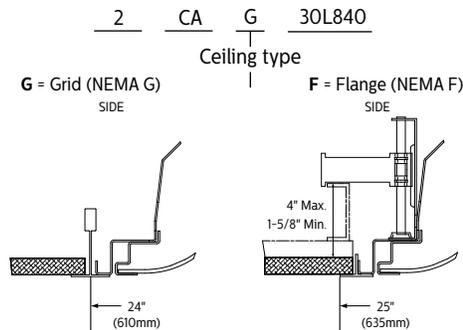
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see sensor spec sheets linked to below)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –  
**DAYOCC** – [www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC\\_sensor.pdf](http://www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf)  
**SWZDT** – [www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT\\_sensor.pdf](http://www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf)



# 2CA ClearAppeal LED recessed 2x2

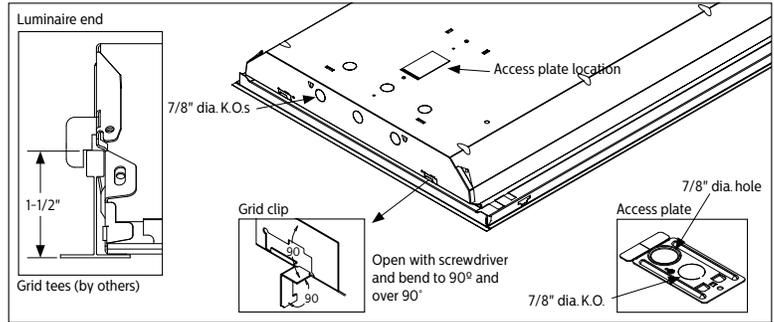
Up to 4400 lumens

## 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

### 2x2 ClearAppeal LED recessed, 3000 nominal delivered lumens

### LER – 106

<b>Catalog No.</b>	2CAG30L840-2-DS-UNV	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>																																																											
<b>Test No.</b>	35385	<table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>1046</td><td>1046</td><td>1046</td><td>1046</td></tr> <tr><td>5</td><td>1037</td><td>1042</td><td>1046</td><td>1042</td></tr> <tr><td>15</td><td>995</td><td>1009</td><td>1018</td><td>1009</td></tr> <tr><td>25</td><td>905</td><td>930</td><td>948</td><td>930</td></tr> <tr><td>35</td><td>781</td><td>819</td><td>846</td><td>819</td></tr> <tr><td>45</td><td>636</td><td>683</td><td>720</td><td>683</td></tr> <tr><td>55</td><td>480</td><td>533</td><td>577</td><td>533</td></tr> <tr><td>65</td><td>320</td><td>380</td><td>431</td><td>380</td></tr> <tr><td>75</td><td>163</td><td>231</td><td>277</td><td>231</td></tr> <tr><td>85</td><td>37</td><td>59</td><td>63</td><td>59</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1046	1046	1046	1046	5	1037	1042	1046	1042	15	995	1009	1018	1009	25	905	930	948	930	35	781	819	846	819	45	636	683	720	683	55	480	533	577	533	65	320	380	431	380	75	163	231	277	231	85	37	59	63	59	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
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<b>S/MH</b>	1.3	0-30	811	27.0	45	2956	3174	3345																																																												
<b>Lamp Type</b>	LED	0-40	1322	44.0	55	2751	3055	3307																																																												
<b>Lumens</b>	3002	0-60	2324	77.4	65	2485	2957	3351																																																												
<b>Input Watts</b>	28.4	0-90	3001	100.0	75	2069	2938	3510																																																												
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### 2x2 ClearAppeal LED recessed, 3400 nominal delivered lumens

### LER – 105

<b>Catalog No.</b>	2CAG34L840-2-DS-UNV	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>																																																											
<b>Test No.</b>	35386	<table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>1196</td><td>1196</td><td>1196</td><td>1196</td></tr> <tr><td>5</td><td>1186</td><td>1191</td><td>1196</td><td>1191</td></tr> <tr><td>15</td><td>1137</td><td>1153</td><td>1164</td><td>1153</td></tr> <tr><td>25</td><td>1034</td><td>1063</td><td>1084</td><td>1063</td></tr> <tr><td>35</td><td>892</td><td>936</td><td>966</td><td>936</td></tr> <tr><td>45</td><td>728</td><td>781</td><td>823</td><td>781</td></tr> <tr><td>55</td><td>549</td><td>610</td><td>661</td><td>610</td></tr> <tr><td>65</td><td>366</td><td>435</td><td>493</td><td>435</td></tr> <tr><td>75</td><td>186</td><td>265</td><td>316</td><td>265</td></tr> <tr><td>85</td><td>42</td><td>69</td><td>71</td><td>69</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1196	1196	1196	1196	5	1186	1191	1196	1191	15	1137	1153	1164	1153	25	1034	1063	1084	1063	35	892	936	966	936	45	728	781	823	781	55	549	610	661	610	65	366	435	493	435	75	186	265	316	265	85	42	69	71	69	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
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<b>Input Watts</b>	32.8	0-90	3432	100.0	75	2360	3362	4006																																																												
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# 2CA ClearAppeal LED recessed 2x2

Up to 4400 lumens

## 2x2 ClearAppeal LED recessed, 3800 nominal delivered lumens

LER – 103

<b>Catalog No.</b> 2CAG38L840-2-DS-UNV <b>Test No.</b> 35387 <b>S/MH</b> 1.2 <b>Lamp Type</b> LED <b>Lumens</b> 3778 <b>Input Watts</b> 36.6  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.33</b> 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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
	<b>Vertical Angle</b>	<b>Horizontal Angle</b>				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
		<b>0°</b>	<b>45°</b>	<b>90°</b>	<b>-45°</b>							
	<b>0</b>	1316	1316	1316	1316	<b>0-30</b>	1020	27.0	<b>45</b>	3717	4003	4204
	<b>5</b>	1305	1311	1316	1311	<b>0-40</b>	1662	44.0	<b>55</b>	3460	3857	4160
	<b>15</b>	1251	1269	1281	1269	<b>0-60</b>	2923	77.4	<b>65</b>	3122	3729	4214
	<b>25</b>	1138	1171	1193	1171	<b>0-90</b>	3777	100.0	<b>75</b>	2590	3706	4404
	<b>35</b>	982	1032	1064	1032				<b>85</b>	1734	2839	2910
	<b>45</b>	800	861	905	861							
	<b>55</b>	604	673	726	673							
<b>65</b>	402	480	542	480								
<b>75</b>	204	292	347	292								
<b>85</b>	46	75	77	75								

## 2x2 ClearAppeal LED recessed, 4400 nominal delivered lumens

LER – 95

<b>Catalog No.</b> 2CAG44L835-2-DS-UNV <b>Test No.</b> 34639 <b>S/MH</b> 1.2 <b>Lamp Type</b> LED <b>Lumens</b> 4343 <b>Input Watts</b> 45.7  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.53</b> 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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
	<b>Vertical Angle</b>	<b>Horizontal Angle</b>				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
		<b>0°</b>	<b>45°</b>	<b>90°</b>	<b>-45°</b>							
	<b>0</b>	1576	1576	1576	1576	<b>0-30</b>	1219	28.1	<b>45</b>	4379	4627	4784
	<b>5</b>	1565	1571	1577	1571	<b>0-40</b>	1976	45.5	<b>55</b>	4037	4366	4590
	<b>15</b>	1502	1523	1535	1523	<b>0-60</b>	3421	78.7	<b>65</b>	3615	4099	4427
	<b>25</b>	1361	1397	1416	1397	<b>0-90</b>	4345	100.0	<b>75</b>	3024	3893	4340
	<b>35</b>	1167	1215	1238	1215				<b>85</b>	2107	2925	2820
	<b>45</b>	943	996	1030	996							
	<b>55</b>	705	762	801	762							
<b>65</b>	465	527	570	527								
<b>75</b>	238	307	342	307								
<b>85</b>	56	78	75	78								

# 2CA ClearAppeal LED recessed 2x2

Up to 4400 lumens

2x2 ClearAppeal LED recessed, 3300 nominal delivered lumens

LER – 100

<b>Catalog No.</b> 2CAG33B840-2-DS-UNV <b>Test No.</b> 38124 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 3339 <b>Input Watts</b> 34  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.40</b> 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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
	<b>Vertical Angle</b> 0° 5° 15° 25° 35° 45° 55° 65° 75° 85°	<b>Horizontal Angle</b> 0° 45° 90° -45°	<b>Degrees</b> 0-30 0-40 0-60 0-90	<b>Lumens</b> 923 1501 2627 3338	<b>% Luminaire</b> 27.6 45.0 78.7 100.0	<b>Angle</b> 45° 55° 65° 75° 85°	<b>End</b> 3368 3145 2677 2252 1647	<b>45°</b> 3577 3427 3082 3020 2141	<b>Cross</b> 3737 3659 3558 3507 2119			
<b>Coefficients of Utilization</b> EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
<b>Ceiling (pcc)</b>		<b>80%</b>			<b>70%</b>			<b>50%</b>				
<b>Wall (pw)</b>		70	50	30	70	50	30	50	30			
Zonal cavity method - Effective floor reflectance = 20%												
<b>RCR</b>		0	1	2	3	4	5	6	7	8	9	10
<b>Room Cavity Ratio</b>		118	109	98	90	81	76	69	65	59	56	53
		118	104	98	79	69	63	56	51	46	42	40
		118	98	82	70	60	54	47	42	38	34	32
		115	106	95	86	80	73	68	63	58	55	52
		115	101	88	78	68	61	56	50	46	41	39
		115	97	81	69	60	53	46	41	38	34	32
		111	96	84	75	66	59	52	48	45	40	38
		111	93	80	68	58	52	46	41	38	34	30

