

# Day-Brite CFI

by Signify

## Surface

ClearAppeal LED 2x4

3600, 4200, 5500, or 7000 lumens



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

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

### Ordering guide

Example: 2SCA42L840-4-DS-UNV-DIM

Width	Family	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	SCA		-	4	DS	-	-	
2 2'	SCA ClearAppeal surface	<b>36L</b> 3600 nominal delivered lumens <b>42L</b> 4200 nominal delivered lumens <b>55L</b> 5500 nominal delivered lumens <b>70L</b> 7000 nominal delivered lumens	<b>830</b> 80 CRI, 3000K <b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K <b>850</b> 80 CRI, 5000K	4 4'	DS Diffuse (smooth)	<b>UNV</b> Universal Voltage, 120-277 volt <b>347</b> 347V	<b>DIM<sup>1</sup></b> 0-10V dimming <b>SDIM<sup>2</sup></b> Step dimming to 40% input power	<b>AG</b> Antimicrobial paint <b>GLR</b> Fusing, fast blow <b>SWZDT<sup>3</sup></b> Integral sensor, daylighting and occupancy, advanced grouping with dwell time <b>DAYOCC<sup>3</sup></b> Integral sensor, daylighting and occupancy, basic grouping <b>DSC</b> Quick driver disconnect

### Footnotes

- 1 Integral SWZDT and DAYOCC options dimmable to 5% via wireless wall switch, all other 0-10V wired configurations dimmable to 1%.
- 2 SDIM not available for 70L lumen option.
- 3 Specify only with -DIM driver option.



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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.

## Construction/Finish

- Extruded aluminum external construction provides accurate, high quality fit and finish.
- Captive hinged door frame assembly for maintenance accessibility.
- Matte white external finish is standard, custom colors available.

## Electrical

- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- 0-10V dimming is standard.
- Five year limited luminaire warranty includes LED boards and driver. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.
- High efficiency LEDs have a minimum 70,000 hour rated life (L70). Predicted L70 lifetime based on LED manufacturer's LM-80 data and in-situ laboratory testing.
- 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

- Captive one-piece enclosure hinges down as an assembly for easy access to internals if needed.
- Guide-post spring loaded latches allow easy opening and closing of the 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.

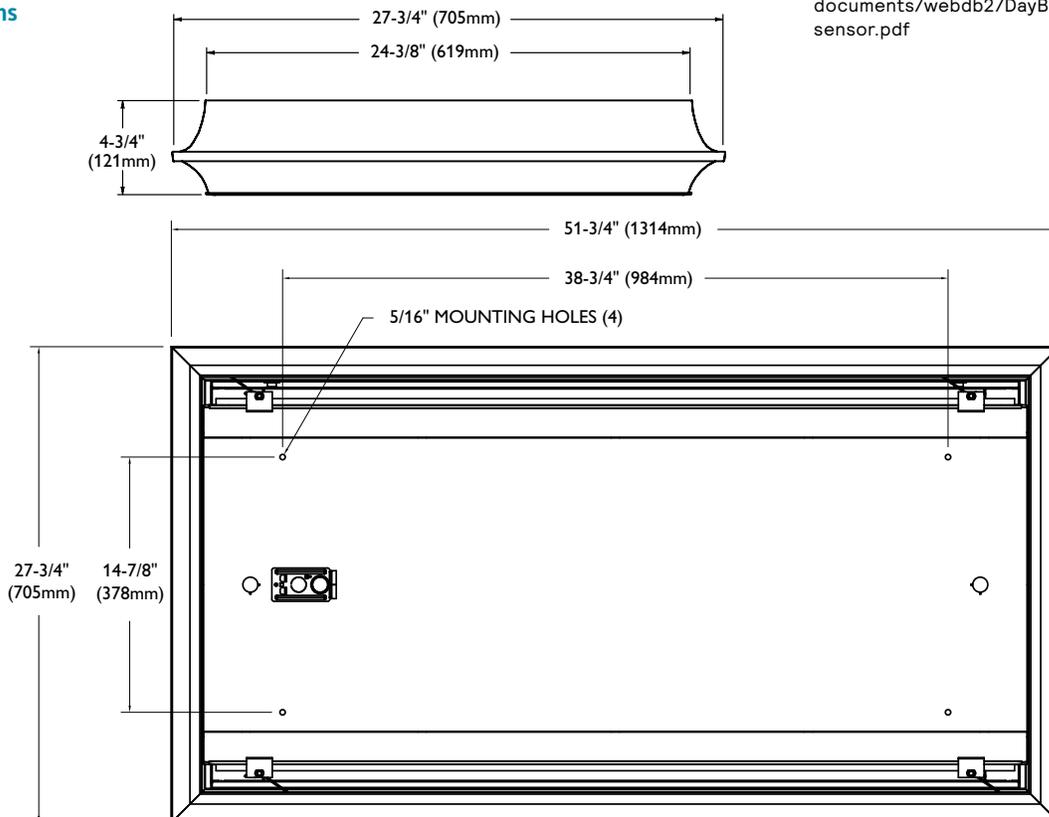
## DAYOCC & SpaceWise DT (SWZDT)

- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see 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)

## Dimensions



# 2SCA ClearAppeal surface LED 2x4

3600, 4200, 5500, or 7000 lumens

## Photometry

### 2x4 ClearAppeal surface LED, 3600 nominal delivered lumens

LER – 118

<b>Catalog No.</b> 2SCA36L840-4-DS-UNV <b>Test No.</b> 35365 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 3626 <b>Input Watts</b> 30.7  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.03</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>% Linaire</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>	1263	1263	1263	1263	<b>0-30</b>	981	27.0	<b>45</b>	1709	1821	1883
	<b>5</b>	1249	1258	1266	1258	<b>0-40</b>	1599	44.1	<b>55</b>	1596	1751	1841
	<b>15</b>	1198	1219	1231	1219	<b>0-60</b>	2808	77.4	<b>65</b>	1446	1690	1828
	<b>25</b>	1095	1126	1146	1126	<b>0-90</b>	3627	100.0	<b>75</b>	1200	1716	1912
	<b>35</b>	950	994	1015	994				<b>85</b>	754	1350	1247
	<b>45</b>	778	829	857	829							
	<b>55</b>	590	647	680	647							
<b>65</b>	394	460	498	460								
<b>75</b>	200	286	319	286								
<b>85</b>	42	76	70	76								

### 2x4 ClearAppeal surface LED, 4200 nominal delivered lumens

LER – 117

<b>Catalog No.</b> 2SCA42L840-4-DS-UNV <b>Test No.</b> 36364 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 4270 <b>Input Watts</b> 36.4  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.05</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>% Linaire</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>	1487	1487	1487	1487	<b>0-30</b>	1154	27.0	<b>45</b>	2013	2143	2215
	<b>5</b>	1471	1481	1490	1481	<b>0-40</b>	1882	44.1	<b>55</b>	1880	2059	2168
	<b>15</b>	1410	1434	1449	1434	<b>0-60</b>	3306	77.4	<b>65</b>	1705	1987	2157
	<b>25</b>	1288	1325	1348	1325	<b>0-90</b>	4272	100.0	<b>75</b>	1419	2017	2256
	<b>35</b>	1119	1169	1194	1169				<b>85</b>	900	1637	1464
	<b>45</b>	917	976	1009	976							
	<b>55</b>	694	761	801	761							
<b>65</b>	464	541	587	541								
<b>75</b>	237	336	376	336								
<b>85</b>	51	92	82	92								

# 2SCA ClearAppeal surface LED 2x4

3600, 4200, 5500, or 7000 lumens

## 2x4 ClearAppeal surface LED, 5500 nominal delivered lumens

LER – 116

<b>Catalog No.</b> 2SCA55L840-4-DS-UNV <b>Test No.</b> 35363 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 5556 <b>Input Watts</b> 476  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.05</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° 1934 1934 1934 1934 5 1914 1927 1938 1927 15 1834 1865 1885 1865 25 1677 1724 1753 1724 35 1456 1521 1554 1521 45 1193 1269 1314 1269 55 905 989 1043 989 65 604 704 766 704 75 307 438 490 438 85 66 119 108 119	<b>Horizontal Angle</b> 0° 45° 90° -45°			<b>Degrees</b> 0-30 1502 270 0-40 2449 44.1 0-60 4302 77.4 0-90 5558 100.0	<b>Angle</b> 45 2619 2787 2884 55 2449 2677 2824 65 2219 2587 2812 75 1842 2625 2937 85 1167 2111 1931					
<b>Coefficients of Utilization</b> <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>											
<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		
<b>RCR</b> Zonal cavity method - Effective floor reflectance = 20%											
<b>Room Cavity Ratio</b> 0 1 2 3 4 5 6 7 8 9 10	0	118	118	118	115	115	115	111	111		
	1	108	103	98	106	101	96	96	93		
	2	97	90	82	95	88	81	83	79		
	3	90	79	69	86	77	68	73	68		
	4	81	69	60	80	68	59	66	58		
	5	75	61	53	72	60	53	58	51		
	6	69	56	46	68	55	46	53	46		
	7	64	51	41	63	50	41	47	40		
	8	59	46	38	57	46	36	44	36		
	9	56	42	34	55	41	34	40	34		
	10	53	39	30	51	39	30	38	30		

## 2x4 ClearAppeal surface LED, 7000 nominal delivered lumens

LER – 114

<b>Catalog No.</b> 2SCA70L840-4-DS-UNV <b>Test No.</b> 35362 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 7011 <b>Input Watts</b> 61.3  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.11</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° 2441 2441 2441 2441 5 2415 2431 2446 2431 15 2315 2355 2379 2355 25 2118 2177 2214 2177 35 1836 1922 1961 1922 45 1503 1603 1657 1603 55 1139 1249 1316 1249 65 762 889 967 889 75 387 552 620 552 85 82 148 135 148	<b>Horizontal Angle</b> 0° 45° 90° -45°			<b>Degrees</b> 0-30 1895 270 0-40 3090 44.1 0-60 5428 77.4 0-90 7014 100.0	<b>Angle</b> 45 3301 3521 3637 55 3084 3382 3561 65 2800 3267 3551 75 2321 3310 3720 85 1463 2630 2400					
<b>Coefficients of Utilization</b> <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>											
<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		
<b>RCR</b> Zonal cavity method - Effective floor reflectance = 20%											
<b>Room Cavity Ratio</b> 0 1 2 3 4 5 6 7 8 9 10	0	118	118	118	115	115	115	111	111		
	1	108	103	98	106	101	96	96	93		
	2	97	90	82	95	88	81	83	79		
	3	90	79	69	86	77	68	73	68		
	4	81	69	60	80	68	59	66	58		
	5	75	61	53	72	60	53	58	51		
	6	69	56	46	68	55	46	53	46		
	7	64	51	41	63	50	41	47	40		
	8	59	46	38	57	46	36	44	36		
	9	56	42	34	55	41	34	40	34		
	10	53	39	30	51	39	30	38	30		

