Day-Brite CFI by Signify

Surface

ClearAppeal LED 2x2

3000, 3400, or 3800 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: 2SCA30L840-2-DS-UNV-DIM

Width	Family	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	SCA		–	2 –	DS –	–	–	
2 2'	**SCA** ClearAppeal surface	**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**[1] 0-10V dimming **SDIM** Step dimming to 40% input power	**AG** Antimicrobial paint **GLR** Fusing, fast blow **SWZG2**[2,3] Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning **SWZDT**[2] Integral sensor, daylighting and occupancy, advanced grouping with dwell time **DAYOCC**[2] Integral sensor, daylighting and occupancy, basic grouping **DSC** 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 Specify only with -DIM driver option.
3 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.

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

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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.
- Approximate weight 30lbs.

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** 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 centerdiffuser (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
- For more information on the sensor, please refer to www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf
- Visit www.philips.com/spacewise for more information about SpaceWise Technology (SWZG2)

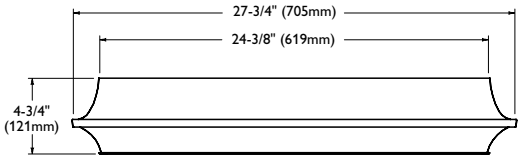
DAYOCC & SpaceWise DT (SWZDT)

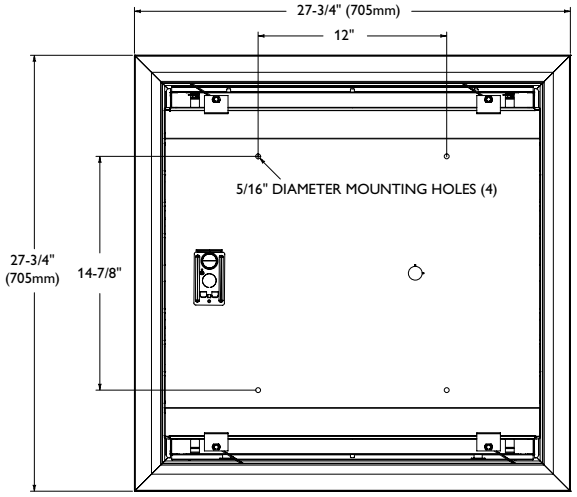
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see below)
- Register for the commissioning app at http://registration.componentcloud.philips.com/appregistration/
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –

  DAYOCC – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf

  SWZDT – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf

Dimensions





2SCA ClearAppeal surface LED 2x2

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Photometry

2x2 ClearAppeal surface LED, 3000 nominal delivered lumens — LER – 106

Catalog No.	2SCA30L840-2-DS-UNV
Test No.	35385
S/MH	1.3
Lamp Type	LED
Lumens	3002
Input Watts	28.4

Comparative yearly lighting energy cost per 1000 lumens – **$2.26** 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.

Candela distribution

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

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	811	27.0
0- 40	1322	44.0
0- 60	2324	77.4
0- 90	3001	100.0

Average Luminance

Angle	End	45°	Cross
45	2956	3174	3345
55	2751	3055	3307
65	2485	2957	3351
75	2069	2938	3510
85	1406	2220	2360

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							
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

Room Cavity Ratio

2x2 ClearAppeal surface LED, 3400 nominal delivered lumens — LER – 105

Catalog No.	2SCA34L840-2-DS-UNV
Test No.	35386
S/MH	1.3
Lamp Type	LED
Lumens	3431
Input Watts	32.8

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 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.

Candela distribution

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

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	927	27.0
0- 40	1511	44.0
0- 60	2656	77.4
0- 90	3432	100.0

Average Luminance

Angle	End	45°	Cross
45	3380	3630	3824
55	3147	3497	3788
65	2842	3379	3833
75	2360	3362	4006
85	1583	2601	2684

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							
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

Room Cavity Ratio

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2x2 ClearAppeal surface LED, 3800 nominal delivered lumens

LER – 103

Catalog No.	2SCA38L840-2-DS-UNV
Test No.	35387
S/MH	1.2
Lamp Type	LED
Lumens	3776
Input Watts	36.6

Comparative yearly lighting energy cost per 1000 lumens – **$2.33** 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.

Candela distribution

Vertical Angle	Horizontal Angle 0°	45°	90°	-45°
0	1316	1316	1316	1316
5	1305	1311	1316	1311
15	1251	1269	1281	1269
25	1138	1171	1193	1171
35	982	1032	1064	1032
45	800	861	905	861
55	604	673	726	673
65	402	480	542	480
75	204	292	347	292
85	46	75	77	75

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1020	27.0
0- 40	1662	44.0
0- 60	2923	77.4
0- 90	3777	100.0

Average Luminance

Angle	End	45°	Cross
45	3717	4003	4204
55	3460	3857	4160
65	3122	3729	4214
75	2590	3706	4404
85	1734	2839	2910

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							
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

Room Cavity Ratio

Signify

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