Day-Brite CFI by Signify

Recessed

ClearAppeal LED 1x4

Up to 4000 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: 1CAG40L840-4-DS-UNV-DIM-SWZDT

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
1	CA				4	DS			
1 1'	**CA** ClearAppeal	**G** Grid **F** Flange	**Standard configurations** **26L** 2600 nominal delivered lumens **30L** 3000 nominal delivered lumens **40L** 4000 nominal delivered lumens **Base configuration** **36B** 3600 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**[1,2] Dimming **SDIM** Step dimming to 40% input power **L3D** Lutron Hi-lume A 1% dimming **LDE** Lutron LDE5, 5% 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 **EMLED** Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) **EMLED7**[3] Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) **DSC** Quick driver disconnect **SWZG2**[4,5] Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning **SWZDT**[4] Integral sensor, daylighting and occupancy, advanced grouping with dwell time **DAYOCC**[4] 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)

- **FMA14 –** 1'x4' "F" mounting frame for NEMA "F" mounting
- **GCC** – Grid clip pack (set of 4)

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 Available only with Base configurations.
4 Specify only with -DIM driver option.
5 Must order SWZ-REMOTE SpaceWise handheld remote with each SWZG2 order.

1CA ClearAppeal LED recessed 1x4

Up to 4000 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 clips are not integral to the luminaire and must be ordered separately.
- 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.
- 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** 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 1200lm for EMLED, and 840lm 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
- 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 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 –

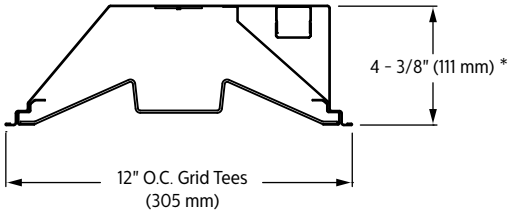
  DAYOCC – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf

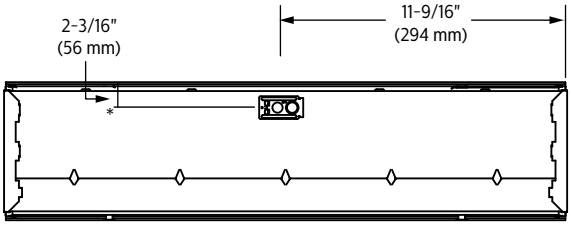
  SWZDT – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
1x4 Standard	1CAG26L840	24	109
	1CAG30L840	28	109
	1CAG40L840	37	107
1x4 Base	1CAG36B840	34	108

Dimensions





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

1CA ClearAppeal LED recessed 1x4

Up to 4000 lumens

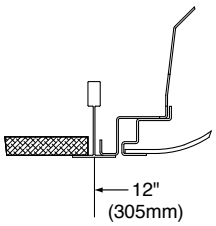
Ceiling configuration

1 CA G 26L840

Ceiling type

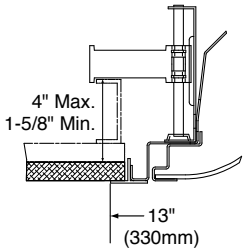
G = Grid (NEMA G) **F** = Flange (NEMA F)

SIDE



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 12" x 48" spacing.

SIDE



(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

1x4 ClearAppeal LED recessed, 2600 nominal delivered lumens — LER – 109

Catalog No.	1CAG26L840-4-DS-UNV
Test No.	35058
S/MH	1.2
Lamp Type	LED
Lumens	2655
Input Watts	24.3

Comparative yearly lighting energy cost per 1000 lumens – **$2.20** 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	947	947	947	947
5	933	942	946	942
15	900	909	906	909
25	830	837	832	837
35	729	740	734	740
45	608	623	620	623
55	472	496	488	496
65	324	351	322	351
75	174	180	148	180
85	43	32	21	32

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	728	27.4
0- 40	1185	44.6
0- 60	2090	78.6
0- 90	2658	100.0

Average Luminance

Angle	End	45°	Cross
45	2948	3020	3006
55	2819	2964	2915
65	2629	2846	2611
75	2302	2384	1960
85	1675	1247	822

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	109	104	100	106	102	97	96	93
2	98	90	83	95	89	81	84	80
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

Room Cavity Ratio

1x4 ClearAppeal LED recessed, 3000 nominal delivered lumens — LER – 109

Catalog No.	1CAG30L840-4-DS-UNV
Test No.	35059
S/MH	1.2
Lamp Type	LED
Lumens	3008
Input Watts	27.6

Comparative yearly lighting energy cost per 1000 lumens – **$2.20** 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	1072	1072	1072	1072
5	1057	1068	1072	1068
15	1015	1026	1029	1026
25	934	941	947	941
35	818	829	836	829
45	679	696	708	696
55	523	552	562	552
65	356	394	386	394
75	187	204	190	204
85	42	40	37	40

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	824	27.4
0- 40	1343	44.6
0- 60	2367	78.6
0- 90	3010	100.0

Average Luminance

Angle	End	45°	Cross
45	3292	3374	3432
55	3125	3296	3359
65	2890	3194	3129
75	2470	2701	2511
85	1659	1553	1467

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	109	104	100	106	102	97	96	93
2	98	90	83	95	89	81	84	80
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

Room Cavity Ratio

1CA ClearAppeal LED recessed 1x4

Up to 4000 lumens

1x4 ClearAppeal LED recessed, 4000 nominal delivered lumens — LER – 106

Catalog No.	1CAG40L840-4-DS-UNV
Test No.	35070
S/MH	1.2
Lamp Type	LED
Lumens	3984
Input Watts	37.4

Comparative yearly lighting energy cost per 1000 lumens – **$2.24** 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	1421	1421	1421	1421
5	1400	1415	1420	1415
15	1346	1360	1364	1360
25	1236	1247	1254	1247
35	1082	1098	1107	1098
45	899	922	937	922
55	694	731	745	731
65	472	521	514	521
75	246	271	252	271
85	55	52	48	52

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1092	27.4
0- 40	1778	44.6
0- 60	3135	78.6
0- 90	3987	100.0

Average Luminance

Angle	End	45°	Cross
45	4358	4468	4543
55	4145	4370	4450
65	3829	4226	4171
75	3251	3590	3341
85	2159	2037	1880

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	109	104	100	106	102	97	96	93
2	98	90	83	95	89	81	84	80
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

Room Cavity Ratio

1x4 ClearAppeal LED recessed, 3600 nominal delivered lumens — LER – 108

Catalog No.	1CAG36B840-4-DS-UNV
Test No.	38128
S/MH	1.2
Lamp Type	LED
Lumens	3622
Input Watts	34

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 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	1305	1305	1305	1305
5	1278	1300	1307	1300
15	1224	1245	1252	1245
25	1124	1142	1152	1142
35	986	1006	1016	1006
45	818	843	858	843
55	631	672	682	672
65	404	466	458	466
75	213	236	220	236
85	51	50	47	50

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	999	27.6
0- 40	1627	44.9
0- 60	2867	79.2
0- 90	3621	100.0

Average Luminance

Angle	End	45°	Cross
45	3963	4085	4160
55	3769	4014	4073
65	3276	3779	3712
75	2819	3125	2917
85	1990	1966	1840

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	109	104	100	106	102	97	96	93
2	98	91	83	95	89	81	84	80
3	90	80	70	88	78	69	75	68
4	81	69	61	80	68	60	67	58
5	76	63	54	73	61	53	59	52
6	69	56	47	68	56	46	54	46
7	65	51	42	63	51	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	32	38	30

Room Cavity Ratio

Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008