Day-Brite CFI by signify

Recessed

SofTrace LED 1x4

Up to 4000 lumens

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI SofTrace LED recessed brings new meaning to the concept of combining style with performance. Equipped with a fresh streamlined design and innovative technology, SofTrace provides a huge step forward for the lighting industry. The sleek profile design belies the true "horsepower under the hood". This architectural product delivers leading edge performance for the most environmentally conscious user.

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

Example: 1STG40L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Lumen Package[1]	Color Temp.	Length	Center Diffuser	Voltage	Driver	Options
1	ST			–	4 –	–	–	–	
1 1'	ST Softrace	G Grid F Flange Z Z Spline / Modular	**Standard configurations** **26L** 2600 nominal delivered lumens **29L** 2900 nominal delivered lumens **35L** 3500 nominal delivered lumens **40L** 4000 nominal delivered lumens **Base configuration** **38B** 3800 nominal delivered lumens	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K	4 4'	**D** Diffuse **PMW** Round perf w/ white overlay	**UNV** Universal voltage 120-277V **347** 347V	**DIM**[2] 0-10V dimming **SDIM** Step dimming to 40% input power **L3D** Lutron Hi-lume A 1% dimming **LDE** Lutron LDE5, 5% dimming **DALI** DALI dimming	**AG** Antimibrobial 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 **PAF** Housing painted after fabrication **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) **CHIC** Chicago plenum rated

Footnotes:

1 The lumen values stated above are relevant only to the "D" center diffuser option. For lumen values with the other diffusers, check the photometrics tests online for those specific catalog numbers.
2 0-10V dimming to 1% for Standard configurations and 5% for Base configurations.
3 Available only with Base configurations.

Accessories (order separately)

- **FMA14** 1'x4' "F" mounting frame for NEMA "F" mounting

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
1x4 Standard	1STG26L840	23	115
	1STG29L840	26	115
	1STG35L840	31	114
	1STG40L840	35	113
1x4 Base	1STG38B840	34	113

1ST SofTrace LED recessed 1x4

Up to 4000 lumens

Application

- Subtle enclosure curves provide 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.
- Lumen packages up to 4,000 initial lumens, providing flexibility to optimize light levels for a specific application.
- 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.
- Grid, Flange or Z-spline/ Modular models available.

Construction/Finish

- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- Suitable for end-to-end mounting.
- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.
- 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.

Electrical

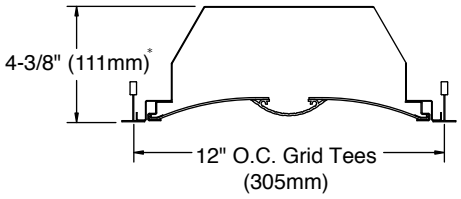
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- Standard configurations are 0-10V dimming to 1% and Base configurations are to 5%.

- Five year limited luminaire warranty includes LED boards and driver.
  Visit **www.philips.com/warranties** for complete warranty information.
- Predicted L70 lumen maintanance 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.

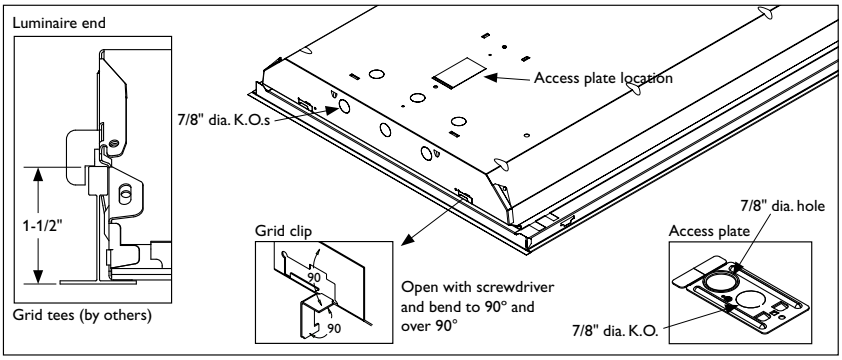
Enclosure

- Choice of two enclosures:
  – Single piece thermo formed acrylic lens with ribbed center diffuser (D)
  – Three piece acrylic lens with round perforated steel center diffuser (PMW)

Dimensions



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



1ST SofTrace LED recessed 1x4

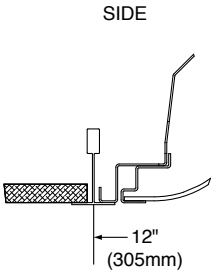
Up to 4000 lumens

Ceiling configuration

1 ST G 27L840

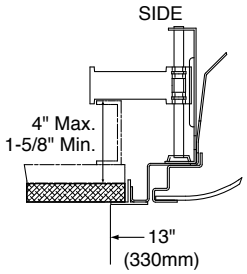
Ceiling type

G = Grid (NEMA G)



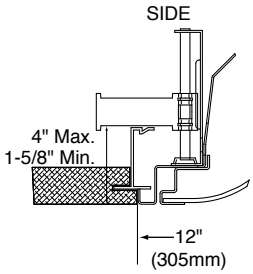
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 12" x 48" spacing.

F = Flange (NEMA F)



(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.

Z = Modular & "Z" Spline (NEMA F)



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

1x4 SofTrace LED, 3800 nominal delivered lumens, diffuse — LER – 114

Catalog No.	1STG38B840-4-D-UNV
Test No.	38129
S/MH	1.2
Lamp Type	LED
Lumens/Lamp	3824
Input Watts	34

Comparative yearly lighting energy cost per 1000 lumens – **$2.11** 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	1603	1603	1603	1603
5	1567	1598	1611	1598
15	1497	1532	1545	1532
25	1359	1384	1376	1384
35	1159	1161	1120	1161
45	921	894	831	894
55	673	635	576	635
65	404	381	344	381
75	201	198	172	198
85	48	48	45	48

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1215	31.8
0-40	1934	50.6
0-60	3179	83.1
0-90	3823	100.0

Average Luminance

Angle	End	45°	Cross
45	4466	4332	4027
55	4023	3793	3441
65	3280	3086	2790
75	2664	2615	2280
85	1880	1880	1754

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	105	101	107	103	98	98	95
2	100	92	85	97	91	84	86	81
3	92	81	73	89	80	72	77	70
4	83	72	65	81	71	64	68	61
5	78	66	56	76	65	56	61	55
6	71	58	51	69	57	50	56	48
7	67	54	46	65	53	45	52	45
8	63	48	40	60	48	40	47	40
9	58	46	38	56	45	36	44	36
10	55	41	34	54	41	34	40	34

Room Cavity Ratio

1x4 SofTrace LED, 2600 nominal delivered lumens, diffuse — LER – 115

Catalog No.	1STG26L840-4-D-UNV-DIM
Test No.	35064
S/MH	1.2
Lamp Type	LED
Lumens/Lamp	2612
Input Watts	22.6

Comparative yearly lighting energy cost per 1000 lumens – **$2.07** 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	1082	1082	1082	1082
5	1066	1079	1085	1079
15	1021	1038	1043	1038
25	928	938	932	938
35	793	787	759	787
45	631	606	563	606
55	459	427	390	427
65	293	272	248	272
75	144	140	121	140
85	32	31	29	31

Light Distribution

Degrees	Lumens	% Luminaire
0-30	824	31.5
0-40	1313	50.2
0-60	2159	82.6
0-90	2613	100.0

Average Luminance

Angle	End	45°	Cross
45	3054	2930	2725
55	2738	2545	2327
65	2375	2203	2006
75	1904	1851	1601
85	1245	1229	1139

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	105	101	107	103	98	97	94
2	100	92	85	96	90	83	86	81
3	92	81	73	89	80	72	77	70
4	83	72	64	81	70	64	68	61
5	78	65	56	76	64	56	61	55
6	71	58	51	69	57	50	56	48
7	67	54	45	65	53	45	52	44
8	61	48	40	60	48	40	46	40
9	57	45	36	56	45	36	44	36
10	55	41	34	54	40	34	40	34

Room Cavity Ratio

1ST SofTrace LED recessed 1x4

Up to 4000 lumens

1x4 SofTrace LED, 2900 nominal delivered lumens, diffuse — LER – 115

Catalog No.	1STG29L840-4-D-UNV-DIM
Test No.	35065
S/MH	1.2
Lamp Type	LED
Lumens/Lamp	3042
Input Watts	26.3

Comparative yearly lighting energy cost per 1000 lumens – **$2.07** 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	1260	1260	1260	1260
5	1241	1256	1262	1256
15	1188	1209	1214	1209
25	1079	1093	1085	1093
35	923	917	883	917
45	735	704	657	704
55	535	495	455	495
65	342	317	289	317
75	168	163	141	163
85	37	36	34	36

Light Distribution

Degrees	Lumens	% Luminaire
0-30	960	31.5
0-40	1529	50.2
0-60	2515	82.6
0-90	3044	100.0

Average Luminance

Angle	End	45°	Cross
45	3557	3407	3179
55	3193	2955	2717
65	2766	2567	2338
75	2222	2152	1867
85	1449	1421	1327

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	105	101	107	103	98	97	94
2	100	92	85	96	90	83	86	81
3	92	81	73	89	80	72	77	70
4	83	72	64	81	70	64	68	61
5	78	65	56	76	64	56	61	55
6	71	58	51	69	57	50	56	48
7	67	54	45	65	53	45	52	44
8	61	48	40	60	48	40	46	40
9	57	45	36	56	45	36	44	36
10	55	41	34	54	40	34	40	34

Room Cavity Ratio

1x4 SofTrace LED, 3500 nominal delivered lumens, diffuse — LER – 114

Catalog No.	1STG35L840-4-D-UNV-DIM
Test No.	35066
S/MH	1.2
Lamp Type	LED
Lumens/Lamp	3557
Input Watts	31.1

Comparative yearly lighting energy cost per 1000 lumens – **$2.09** 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	1474	1474	1474	1474
5	1451	1648	1477	1468
15	1390	1414	1420	1414
25	1263	1279	1269	1279
35	1078	1074	1033	1074
45	859	826	768	826
55	626	582	532	582
65	399	371	337	371
75	195	190	190	190
85	43	43	43	43

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1122	31.5
0-40	1788	50.2
0-60	2940	82.6
0-90	3558	100.0

Average Luminance

Angle	End	45°	Cross
45	4152	3991	3711
55	3731	3470	3168
65	3223	2997	2727
75	2581	2515	2171
85	1683	1671	1526

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	119	119	119	116	116	116	111	111
1	109	105	101	107	103	99	98	95
2	100	92	86	97	90	84	87	82
3	92	82	74	89	80	73	77	71
4	84	73	64	82	71	64	69	62
5	78	65	57	76	64	56	62	55
6	72	59	51	70	58	50	56	49
7	67	54	45	65	53	45	52	44
8	62	49	41	61	49	41	47	40
9	58	45	37	57	45	37	44	37
10	55	42	34	54	41	34	40	34

Room Cavity Ratio

1ST SofTrace LED recessed 1x4

Up to 4000 lumens

1x4 SofTrace LED, 4000 nominal delivered lumens, diffuse

LER – 113

Catalog No.	1STG40L840-4-D-UNV-DIM
Test No.	35068
S/MH	1.2
Lamp Type	LED
Lumens/Lamp	3999
Input Watts	35.3

Comparative yearly lighting energy cost per 1000 lumens – **$2.12** 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	1656	1656	1656	1656
5	1631	1650	1659	1650
15	1561	1589	1597	1589
25	1419	1437	1427	1437
35	1212	1207	1161	1207
45	966	929	863	929
55	703	656	598	656
65	449	417	379	417
75	221	215	185	215
85	48	48	44	48

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1261	31.5
0-40	2009	50.2
0-60	3305	82.6
0-90	4000	100.0

Average Luminance

Angle	End	45°	Cross
45	4673	4494	4177
55	4193	3911	3568
65	3632	3372	3070
75	2915	2848	2447
85	1896	1885	1716

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	105	101	107	103	98	97	94
2	100	92	85	96	90	83	86	81
3	92	81	73	89	80	72	77	70
4	83	72	64	81	70	64	68	61
5	78	65	56	76	64	56	61	55
6	71	58	51	69	57	50	56	48
7	67	54	45	65	53	45	52	44
8	61	48	40	60	48	40	46	40
9	57	45	36	56	45	36	44	36
10	55	41	34	54	40	34	40	34

Room Cavity Ratio

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