

Day-Brite CFI

by @signify

Recessed

SofTrace LED 2x4

Up to 7000 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: 2STG50L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Lumen Package ¹	Color Temp.	Length	Center Diffusers	Voltage	Driver	Options
2	ST			—	4	—	—	—	
2 2'	ST Softrace	G Grid F Flange Z Z Spline / Modular	Standard configurations 36L 3600 nominal delivered lumens 42L 4200 nominal delivered lumens 50L 5000 nominal delivered lumens 63L 6300 nominal delivered lumens 70L 7000 nominal delivered lumens Base configuration 41B 4100 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (ribbed) DS Diffuse (smooth) PMW Round perf w/ white overlay	UNV Universal voltage 120-277V 347 347V	DIM³ 0-10V dimming SDIM² Step dimming to 40% input power L3D⁴ Lutron Hi-lume A 1% dimming LDE⁵ 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 EMLED Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED7⁶ Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) PAF Housing painted after fabrication CHIC Chicago plenum rated

Footnotes:

- 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.
- SDIM not available for 63L or 70L lumen package.
- 0-10V dimming to 1% for Standard configurations and 5% for Base configurations.
- Specify for 36L lumen package only. Consult factory for other lumen packages.
- Specify for 36L or 42L lumen packages only. Consult factory for other lumen packages.
- Available only with Base configurations.

Accessories (order separately)

- FKDP24** Flange conversion kit 2'x4'
- FMA24** 2'x4' "F" mounting frame for NEMA "F" mounting

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4 Standard	2STG36L840	28	125
	2STG42L840	33	124
	2STG50L840	40	124
	2STG63L840	51	122
	2STG70L840	59	119
2x4 Base	2STG41B840	33	127



2ST SofTrace LED recessed 2x4

Up to 7000 lm

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.
- 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.
- Some SofTrace luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers. (www.designlights.org/QPL)

Construction/Finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- 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.
- 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

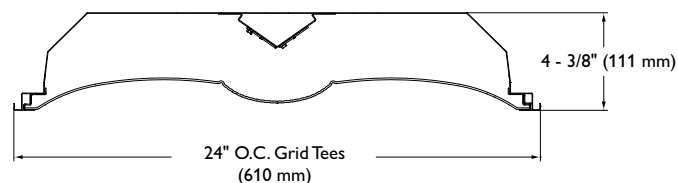
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.

- 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 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.

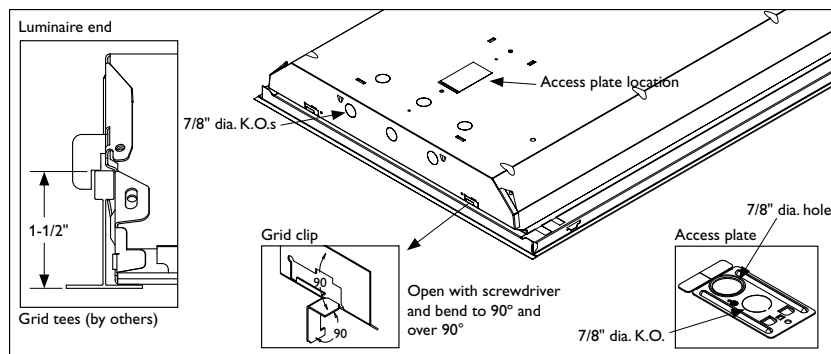
Enclosure

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

Dimensions



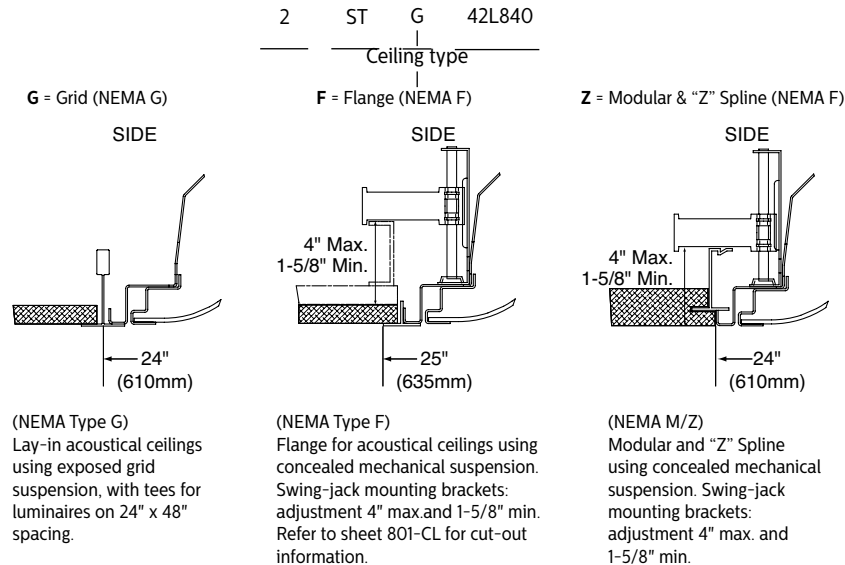
* EMLED and EMLED7 are 1-3/4" (45mm) deeper



2ST SofTrace LED recessed 2x4

Up to 7000 lm

Ceiling configuration



2x4 SofTrace LED, 4100 nominal delivered lumens, diffuse

LER - 127

Catalog No.	2STG41B840-4-D-UNV	Candela distribution				Light Distribution			Average Luminance								
Test No.	38126	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross				
S/MH	1.3	0	1491	1491	1491	1491	0-30	1159	28.0	45	1987	2143	2233				
Lamp Type	LED	5	1463	1488	1498	1488	0-40	1892	45.7	55	1838	2004	2089				
Lumens/Lamp	4137	15	1403	1437	1459	1437	0-60	3293	79.6	65	1653	1838	1929				
Input Watts	33	25	1283	1331	1373	1331	0-90	4136	100.0	75	1289	1581	1735				
		35	1110	1177	1225	1177								85	893	1472	1349
		45	905	976	1017	976											
		55	679	740	772	740											
		65	450	500	525	500											
		75	215	264	289	264											
		85	50	83	76	83											
Comparative yearly lighting energy cost per 1000 lumens – \$1.89 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.																	

2x4 SofTrace LED, 3600 nominal delivered lumens, diffuse

LER - 125

Catalog No.	2STG36L840-4-D-UNV-DIM	Candela distribution				Light Distribution			Average Luminance																
Test No.	35355	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross												
S/MH	1.3	0	1287	1287	1287	1287	0-30	1005	27.5	45	1740	1883	1968												
Lamp Type	LED	5	1273	1282	1290	1282	0-40	1646	45.1	55	1613	1774	1850												
Lumens/Lamp	3650	15	1222	1244	1259	1244	0-60	2881	78.9	65	1446	1635	1722												
Input Watts	29.2	25	1119	1157	1186	1157	0-90	3650	100.0	75	1195	1505	1655												
		35	972	1027	1068	1027																			
		45	793	857	896	857																			
		55	596	656	683	656																			
		65	394	445	469	445																			
		75	199	251	276	251																			
		85	44	75	70	75																			
Comparative yearly lighting energy cost per 1000 lumens – \$1.92 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.																									
						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					
						RCR				Zonal cavity method - Effective floor reflectance = 20%															
						Room Cavity Ratio		0		118		118		118		115		115		115		111		111	
								1		109		104		98		106		102		97		96		93	
								2		98		90		83		95		89		81		84		80	
								3		90		79		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			

2ST SofTrace LED recessed 2x4

Up to 7000 lm

2x4 SofTrace LED, 4200 nominal delivered lumens, diffuse

LER – 124

Catalog No. 2STG42L840-4-D-UNV-DIM		Candela distribution					Light Distribution			Average Luminance						
Test No. 35357		Vertical Angle	Horizontal Angle				Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH 1.3		0°	0°	45°	90°	-45°	0-30	1146	27.6	45°	1981	2146	2243			
Lamp Type LED		5	1467	1467	1467	1467	0-40	1876	45.1	55°	1835	2022	2107			
Lumens/Lamp 4158		15	1451	1462	1471	1462	0-60	3282	78.9	65°	1645	1859	1958			
Input Watts 33.4		25	1393	1418	1436	1418	0-90	4159	100.0	75°	1356	1707	1874			
		35	1276	1319	1352	1319										
		45	1107	1171	1218	1171										
		55	902	977	1021	977										
		65	678	747	778	747										
		75	448	506	533	506										
		85	226	285	312	285										
		90	50	85	79	85										
Comparative yearly lighting energy cost per 1000 lumens – \$1.92 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.																
							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	1	2	3	4	5	6	7	8	9	10			
			118	109	98	90	81	76	69	65	59	56	53	115	111	
			118	104	90	83	79	63	56	51	46	42	40	115	107	
			118	104	83	70	61	54	47	41	38	34	32	102	96	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	
			115	102	89	78	68	61	53	46	41	38	34	89	81	

2x4 SofTrace LED, 5000 nominal delivered lumens, diffuse

LER – 124

Catalog No.	2STG50L840-4-D-UNV-DIM	Candela distribution					Light Distribution			Average Luminance							
Test No.	35358	Vertical Angle	0°	Horizontal Angle				Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH	1.3	0	1752	1752	1752	1752	0-30	1369	27.5	45	2370	2565	2678				
Lamp Type	LED	5	1733	1746	1757	1746	0-40	2241	45.1	55	2196	2416	2517				
Lumens/Lamp	4971	15	1664	1695	1715	1695	0-60	3923	78.9	65	1967	2224	2346				
Input Watts	40.0	25	1525	1576	1614	1576	0-90	4972	100.0	75	1624	2044	2253				
		35	1322	1400	1454	1400								85	1055	1792	1687
		45	1079	1168	1220	1168											
		55	811	892	930	892											
		65	535	605	639	605											
		75	271	341	376	341											
		85	59	101	95	101											
Comparative yearly lighting energy cost per 1000 lumens – \$1.94 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.																	

2ST SofTrace LED recessed 2x4

Up to 7000 lm

2x4 SofTrace LED, 6300 nominal delivered lumens, diffuse

LER – 123

Catalog No.	2STG63L840-4-D-UNV-DIM	Candela distribution					Light Distribution			Average Luminance							
Test No.	35360	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross				
S/MH	1.3	0	2224	2224	2224	2224	0-30	1737	27.5	45	3006	3250	3405				
Lamp Type	LED	5	2199	2216	2230	2216	0-40	2843	45.1	55	2788	3060	3204				
Lumens/Lamp	6305	15	2111	2150	2177	2150	0-60	4976	78.9	65	2500	2821	2981				
Input Watts	51.3	25	1933	1998	2050	1998	0-90	6306	100.0	75	2064	2599	2851				
		35	1677	1774	1847	1774								85	1345	2391	2134
		45	1369	1480	1551	1480											
		55	1030	1131	1183	1131											
		65	680	768	811	768											
		75	344	433	475	433											
		85	76	134	120	134											
Comparative yearly lighting energy cost per 1000 lumens – \$1.95 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.																	

2x4 SofTrace LED, 7000 nominal delivered lumens, diffuse

LER – 119

Catalog No.	2STG70L840-4-D-UNV-DIM	Candela distribution					Light Distribution			Average Luminance							
Test No.	36412	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross				
S/MH	1.3	0	2503	2503	2503	2503	0-30	1949	27.5	45	3369	3734	3886				
Lamp Type	LED	5	2470	2493	2501	2493	0-40	3199	45.1	55	3093	3499	3646				
Lumens/Lamp	7088	15	2373	2408	2433	2408	0-60	5623	79.3	65	2740	3165	3349				
Input Watts	59.5	25	2174	2244	2297	2244	0-90	7091	100.0	75	2223	2843	3105				
		35	1886	2004	2094	2004								85	1407	2328	2104
		45	1534	1700	1770	1700											
		55	1143	1293	1347	1293											
		65	746	862	911	862											
		75	371	474	518	474											
		85	79	131	118	131											
Comparative yearly lighting energy cost per 1000 lumens – \$2.02 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.																	

