

Recessed

SofTrace LED 2x4

Up to 7000 lumens



Project:	
Location:	
Cat.No:	
Туре:	
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 8ase 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	DIM ³ 0-10V dimming SDIM ² Step dimming to 40% input power Lutron Hi-lume A 1% dimming LDE ⁵ Lutron LDE5, 5% dimming DALI DALI	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' F1/D 3/8" twin flex, 3 wire 18 gauge 6' 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 F2/6W Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED7 Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) PAF Housing painted after fabrication 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 SDIM not available for 63L or 70L lumen package.
- 3 O-10V dimming to 1% for Standard configurations and 5% for Base configurations.
- Specify for 36L lumen package only. Consult factory for other lumen packages.
 Specificy for 36L or 42L lumen packages only. Consult factory for other lumen packages.
- specificy for 36L or 42L tumen packages only. Consult factory for other lumen p
 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
	2STG36L840	28	125
	2STG42L840	33	124
2x4 Standard	2STG50L840	40	124
	2STG63L840	51	122
	2STG70L840	59	119
2x4 Base	2STG41B840	33	127



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.

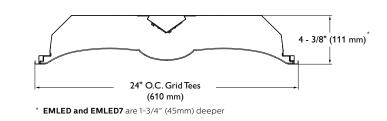
Visit **www.philips.com/warranties** for complete warranty information.

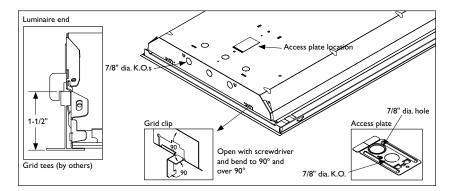
- Predicted L70 lumen maintanance up to 70,000 hours for Standard configurations and 50,000 hours for Base configurations.
- To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1300lm for EMLED and 900lm for EMLED7.
- cETLus listed to UL standards, suitable for damp locations.

Enclosure

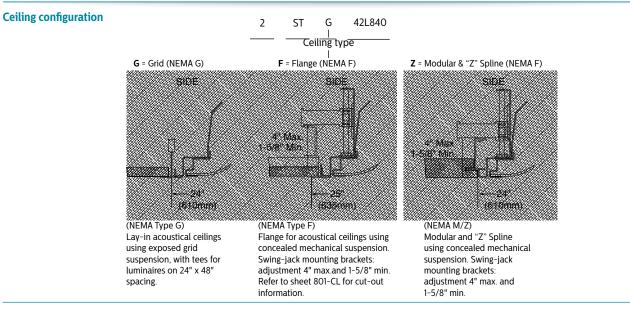
- Choice of three enclosures:
- Single piece thermo formed acrylic lens with ribbed center diffuser (D)
- Three piece acrylic lens with smooth center diffuser (DS)
- Single piece acrylic lens with round perforated steel center diffuser (PMW)

Dimensions





Up to 7000 lm



2x4 SofTrace LED, 4100 nominal delivered lumens, diffuse

		Cande	la dist	ributio	n		Light Dist	Light Distribution					Average Luminance				
Catalog No.	2STG41B840-4-D-UNV	Vertical		Horizon	tal Angle		Degrees L	umens	% Lumina	aire		Angle	End	45°	Cross		
Test No.	38126	Angle	0°	45°	90°	-45°	0-30	1159	28.0			45	1987	2143	2233		
S/MH	1.3	0	1491	1491	1491	1491	0-40 0-60	1892 3293	45.7 79.6			55 65	1838 1653	2004 1838	2089 1929		
Lamp Type	LED	5 15	1463 1403	1488 1437	1498 1459	1488 1437	0-90	4136	100.0			75	1289	1581	1735		
Lumens/Lamp	4137	25	1283	1437	1373	1331						85	893	1472	1349		
Input Watts	33	35	1110	1177	1225	1177	Coefficie										
input watts	22	45	905	976	1017	976	EFFECTIVE F	LOOR C	AVITY REI	FLECTAN	ER (pfc=0.	20)					
		55	679	740	772	740	Ceiling (pcc)		80%			70%		50%			
		65	450	500	525	500	Wall (pw)	70	50	30	70	50	30	50	30		
Comparative yearly	y lighting energy cost per 1000	75	215	264	289	264	RCR		Zonal cav	ity metho	od - Effe	ective floor reflectance = 20%					
-	sed on 3000 hrs. and \$.08 pwr KWH. esults were obtained in the Day-Brite	85	50	83	76	83	0 2 2 2	118 109 98	118 104 91	118 100 83	115 106 95	115 102 89	115 97 82		111 93 80		
laboratory which is	s NVLAP accredited by the National rds and Technology.						Cavity 5 5 6	90 82 76 69	80 70 63 56	71 61 54 47	88 80 73 68	78 68 61 56	70 60 54 47	75 67 59 54	68 59 53 46		
Photometric values compliance with LI	s based on test performed in M-79.						E 7 02 8 9 10	65 60 56 53	52 46 42 40	47 42 39 34 32	63 58 55 52	50 51 46 42 39	42 38 34 32	48 45 41 38	40 41 38 34 30		

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2x4 SofTrace LED, 3600 nominal delivered lumens, diffuse

		Cande	la disti	ributio	n		Light Dist	Light Distribution					Average Luminance				
Catalog No.	2STG36L840-4-D-UNV-DIM	Vertical		Horizon	tal Angle		Degrees Lu	mens	% Lumina	aire		Angle	End	45°	Cro		
Test No.	35355	Angle	0°	45°	90°	-45°		1005	27.5			45	1740		196		
S/MH	1.3	0	1287	1287	1287	1287		1646 2881	45.1 78.9			55 65	1613 1446	1774 1635	185 172		
Lamp Type	LED	5	1273	1282	1290	1282		3650	100.0			75	1446	1505			
Lumens/Lamp	3650	15	1222	1244	1259	1244						85	784	1333	125		
•		25	1119	1157	1186	1157	Coefficier	nts of	Utiliza	tion							
Input Watts	29.2	35 45	972 793	1027 857	1068 896	1027 857	EFFECTIVE FL			ER (pfc=0.2	20)						
		55	596	656	683	656	Ceiling (pcc)	1	80%		1	70%		50%			
		65	394	445	469	445	Wall (pw)	70	50	30	70		30		30		
Comparative yearly	lighting energy cost per 1000	75	199	251	276	251	RCR		Zonal cav	ity metho	od - Effe	tive floor re	flectan	ectance = 20%			
The photometric re laboratory which is Institute of Standar	sed on 3000 hrs. and \$.08 pwr KWH. sults were obtained in the Day-Brite NVLAP accredited by the National ds and Technology.	85	44	75	70	75	m Cavity Ratio	118 109 98 90 81 76 69 65	118 104 90 79 69 63 56 51	118 98 83 70 61 54 47 42	115 106 95 88 80 73 68 63	102 89 78	115 97 81 69 60 53 46 41	111 96 84 75 67 59 54 48	111 93 80 68 58 52 46 40		
compliance with LI							E 7 02 8 9 10	59 56 53	46 42 40	38 34 32	58 55 52	46	38 34 32	45 40 38	36 34 30		

Up to 7000 lm

6 / L N		Cande	la dist	ributio	n		Light Di	Light Distribution					Average Luminance							
Catalog No.	2STG42L840-4-D-UNV-DIM	Vertical		Horizon	tal Angle		Degrees	Lumens	% Lumina	aire		Angle	End	45°	Cross					
Test No.	35357	Angle	0°	45°	90°	-45°	0-30	1146	27.6			45	1981	2146	2243					
S/MH	1.3	0	1467	1467	1467	1467	0-40 0-60	1876 3282	45.1 78.9			55	1835							
Lamp Type	LED	5	1451	1462	1471	1462	0-80	4159	100.0			65 75	1645 1356		1958 1874					
		15	1393	1418	1436	1418						85		1516	1415					
Lumens/Lamp	4158	25	1276	1319	1352	1319	Coeffici	onts of	Iltiliza	tion										
Input Watts	33.4	35	1107	1171	1218	1171					ICE 20 P	FR (nfc=0	R (pfc=0.20)							
		45 55	902 678	977 747	1021 778	977 747				LECIA	1			5.00						
		65	448	506	533	747 506	Ceiling (po		80%	20	70	70%	20	50%						
	lighting energy cost per 1000	75	226	285	312	285	Wall (pw) RCR	70	50 Zonal car	30	70	50 50 stive floor r	30	50	30					
	sed on 3000 hrs. and \$.08 pwr KWH.	85	50	85	79	85	RCR	0 110							111					
10111C113 \$1.52 Du			1 30	05	15	05		0 118 1 109	118 104	118 98	115 106	115 102	115 97	111 96	111 93					
The photometric re	esults were obtained in the Day-Brite						avity Ratio	2 98	90	83	95	89	81	84	80					
laboratory which is	NVLAP accredited by the National						× R	3 90	79	70	88	78	69	75	68					
	rds and Technology.						vit	4 81 5 76	69 63	61 54	80 73	68 61	60 53	67 59	58 52					
							0	6 69	56	47	68	56	46	54	46					
Photometric values	s based on test performed in						Room	7 65	51	42	63	51	41	48	40					
compliance with L	M-79.			r			Ro	8 59	46	38	58	46	38	45	36					
								9 56 10 53	42 40	34 32	55 52	41 39	34 32	40 38	34 30					

2x4 SofTrace LED, 5000 nominal delivered lumens, diffuse

Catalag Na	2STG50L840-4-D-UNV-DIM	Cande	la disti	ributio	n		Light Dis	Light Distribution					Average Luminance				
Catalog No.		Vertical		Horizon	tal Angle		Degrees L	umens	% Lumina	ire		Angle	End	45°	Cros		
Test No.	35358	Angle	0°	45°	90°	-45°	0-30	1369	27.5			45	2370	2565	2678		
S/MH	1.3	0	1752	1752	1752	1752	0-40 0-60	2241 3923	45.1 78.9			55	2196	2416	2517		
amp Type	LED	5	1733	1746	1757	1746	0-90	4972	100.0			65 75	1967 1624	2224 2044			
umens/Lamp	4971	15	1664	1695	1715	1695						85	1055	1792	168		
•		25	1525	1576	1614	1576	Coefficie	onts of	Utiliza	tion							
Input Watts	40.0	35 45	1322 1079	1400 1168	1454 1220	1400 1168		FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
		45 55	811	892	930	892	Ceiling (pcc	1.1	80%			70%	-/	50%			
		65	535	605	639	605	Wall (pw)	70	50	30	70		30	50	30		
	/ lighting energy cost per 1000	75	271	341	376	341	RCR					ctive floor re			50		
umens – \$1.94 bas	sed on 3000 hrs. and \$.08 pwr KWH.	85	59	101	95	101	C	118	118	118	115	115	115	111	111		
laboratory which is	esults were obtained in the Day-Brite NVLAP accredited by the National rds and Technology.						Cavity Ratio	81 81	104 90 79 69 63 56	98 83 70 61 54 47	106 95 88 80 73 68	89 78 68 61	97 81 69 60 53 46	96 84 75 67 59 54	93 80 68 58 52 46		
Photometric values compliance with LI	s based on test performed in M-79.							7 65 3 59 9 56	51 46 42 40	47 42 38 34 32	63 58 55 52	51 46 41	40 41 38 34 32	48 45 40 38	40 36 34 30		

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Up to 7000 lm

		Candela distribution					Light Distribution					Average Luminance				
Catalog No.	2STG63L840-4-D-UNV-DIM	Vertical		Horizon	tal Angle		Degrees		% Lumina	ire		Angle	End	45°	Cross	
Test No.	35360	Angle	0°	45°	90°	-45°	0-30 0-40	1737 2843	27.5			45	3006	3250	3405	
S/MH	1.3	0	2224	2224	2224	2224	0-40	2843 4976	45.1 78.9			55 65	2788 2500	3060 2821	3204 2981	
Lamp Type	LED	5	2199	2216	2230	2216	0-90	6306	100.0			75	2064	2599	2851	
Lumens/Lamp	6305	15	2111	2150	2177	2150						85	1345	2391	2134	
Input Watts	51.3	25 35	1933 1677	1998 1774	2050 1847	1998 1774	Coeffic	ients o	f Utiliza	tion						
input watts	51.5	45	1369	1480	1551	1480	EFFECTIV	E FLOOR	CAVITY REI	LECTAN	CE 20 P	ER (pfc=0.2				
		55	1030	1131	1183	1131	Ceiling (p	cc)	80%			70%		50%		
		65	680	768	811	768	Wall (pw)	70	50	30	70	50	30	50	30	
	y lighting energy cost per 1000	75	344	433	475	433	RCR		Zonal cav	ity meth	od - Effe	ctive floor re	flectance	e = 20%		
lumens – \$1.95 ba	sed on 3000 hrs. and \$.08 pwr KWH.	85	76	134	120	134	0	0 118	104	118 98	115 106	102		96	111 93	
laboratory which is	esults were obtained in the Day-Brite 5 NVLAP accredited by the National rds and Technology.						Cavity Ratio	2 98 3 90 4 81 5 76 6 69	69 63	83 70 61 54 47	95 88 80 73 68		69 60 53	75 67 59	80 68 58 52 46	
Photometric value compliance with L	s based on test performed in M-79.						Room	7 65 8 59 9 56 10 53	51	47 42 38 34 32	63 58 55 52	50 51 46 41 39	41 38 34	48 45 40	40 36 34 30	

2x4 SofTrace LED, 7000 nominal delivered lumens, diffuse

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		Cande	la dist	ributio	n		Light Di	Light Distribution					Average Luminance				
Catalog No.	2STG70L840-4-D-UNV-DIM	Vertical		Horizon	tal Angle		Degrees	Lumens	% Lumina	aire		Angle	End	45°	Cros		
Test No.	36412	Angle	0 *	45°	90.	-45°	0-30	1949	27.5			45	3369	3734	388		
S/MH	1.3	0	2503	2503	2503	2503	0-40 0-60	3199 5623	45.1 79.3			55 65			364 334		
Lamp Type	LED	5	2470	2493	2501	2493	0-90	7091	100.0			75	2223	2843	310		
Lumens/Lamp	7088	15 25	2373 2174	2408 2244	2433 2297	2408 2244						85	1407	2328	210-		
Input Watts	59.5	35	1886	2004	2094	2004	Coeffici										
input Matto	55.5	45	1534	1700	1770	1700	EFFECTIVE	FLOOR	FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
		55	1143	1293	1347	1293	Ceiling (po	:c)	80%			70%		50%	,		
		65	746	862	911	862	Wall (pw)	70	50	30	70	50	30	50	30		
Comparative yearly	y lighting energy cost per 1000	75	371	474	518	474	RCR		Zonal cav	ity meth	od - Effe	ctive floor re	flectanc	3369 3734 3093 3499 2740 3165 2223 2843 1407 2328) 0 50% 2 ectance - 20% 15 111 1 7 96 5 9 75 6 9 75 6 0 67 5 3 59 5 6 554 4 11 48 4 8 45 3 8 40 3			
The photometric re laboratory which is	ised on 3000 hrs. and \$.08 pwr KWH. esults were obtained in the Day-Brite 5 NVLAP accredited by the National rds and Technology.	85	79	131	118	131	Cavity Ratio	0 118 1 109 2 98 3 90 4 82 5 76 6 69		118 100 83 70 61 54 47	115 106 95 88 80 73 68	102 89 78 68 61	115 97 81 69 60 53 46	96 84 75 67 59	111 93 80 68 58 52 46		
Photometric values compliance with LI	s based on test performed in M-79.						Room	7 65 8 59 9 56 10 53	50 51 46 42 40	47 42 38 34 32	63 58 55 52	50 51 46 41 39	40 41 38 34 32	48 45	40 41 36 34 30		

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