

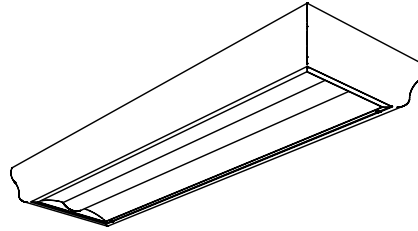
Day-Brite CFI

by Signify

Surface

SofTrace LED 1x4

2200, 2600, 2900 or 3500 lm



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Day-Brite / CFI SofTrace surface 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 now delivers leading edge performance for the most environmentally conscious user.

Ordering guide

Example: 1SST22L840-4-D-UNV-DIM

Width	Family	Lumen Package ¹	Color Temp.	Length	Center Diffuser	Voltage	Driver	Options
1	SST		—	4	—	—	—	
1' 1'	ST Softrace	22L 2200 nominal delivered lumens 26L 2600 nominal delivered lumens 29L 2900 nominal delivered lumens 35L 3500 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4' 4'	D Diffuse PMW Round perforated with white overlay	UNV Universal voltage 120-277V 347 347V	DIM 0-10V dimming SDIM Step dimming to 40% input power DALI DALI dimming	CC Custom Color GLR Fusing, fast blow

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.

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
1x4	1SST22L840	19.4	115
	1SST26L840	22.6	115
	1SST29L840	26.3	115
	1SST35L840	31.1	114



1SST SofTrace surface LED 1x4

2200, 2600, 2900 or 3500lm

Application

- Subtle enclosure curves provide architectural styling to complement any space.
- Soft, contoured housing shape provides modern architectural detail and complements the enclosure design without dominating the room.
- 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.
- Outstanding visual comfort, ideal for modern offices, schools and retail environments.
- Lumen packages range from 2,200 to 3,500 initial lumens, providing flexibility to optimize light levels for a specific application.
- High CRI source provides excellent color rendering with a CRI of 80.
- 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.
- Matte white external finish is standard, custom colors available.
- 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.

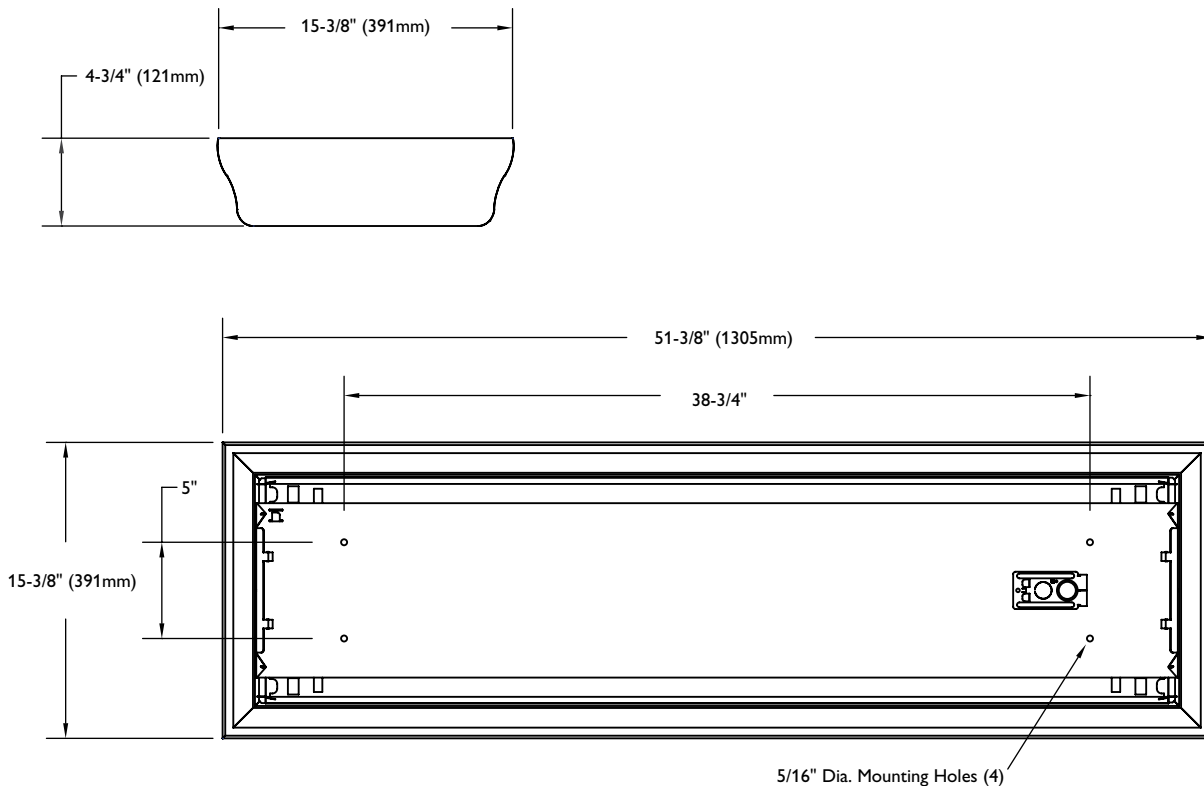
Electrical

- Driver and LED boards are easily accessible from below. LED boards are individually replaceable, if required, via plug-in connectors.
- 0-10V dimming is standard.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models so equipped). Visit www.philips.com/warranties for complete warranty information.
- High efficiency LEDs have a minimum 70,000 hour rated life (L70).
- cETLus listed to UL standards, suitable for damp locations.

Enclosure

- Single piece thermo formed acrylic lens with ribbed center diffuser (D)
- Three piece acrylic lens with round perforated steel center diffuser (PMW)

Dimensions



1SST SofTrace surface LED 1x4

2200, 2600, 2900 or 3500lm

1x4 SofTrace surface LED, 2200 nominal delivered lumens, diffuse

<p>Catalog No. ISST22L840-4-D-UNV-DIM</p> <p>Test No. 35063</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens/Lamp 2234</p> <p>Input Watts 19.4</p> <hr/> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.09 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>	<p>Candela distribution</p> <table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>926</td><td>926</td><td>926</td><td>926</td></tr> <tr><td>5</td><td>912</td><td>922</td><td>927</td><td>922</td></tr> <tr><td>15</td><td>873</td><td>888</td><td>892</td><td>888</td></tr> <tr><td>25</td><td>793</td><td>803</td><td>796</td><td>803</td></tr> <tr><td>35</td><td>678</td><td>674</td><td>649</td><td>674</td></tr> <tr><td>45</td><td>539</td><td>517</td><td>482</td><td>517</td></tr> <tr><td>55</td><td>392</td><td>365</td><td>334</td><td>365</td></tr> <tr><td>65</td><td>251</td><td>232</td><td>212</td><td>232</td></tr> <tr><td>75</td><td>123</td><td>120</td><td>104</td><td>120</td></tr> <tr><td>85</td><td>27</td><td>27</td><td>25</td><td>27</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	926	926	926	926	5	912	922	927	922	15	873	888	892	888	25	793	803	796	803	35	678	674	649	674	45	539	517	482	517	55	392	365	334	365	65	251	232	212	232	75	123	120	104	120	85	27	27	25	27	<p>LER – 115</p> <p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0- 30</td><td>705</td><td>31.5</td></tr> <tr><td>0- 40</td><td>1123</td><td>50.2</td></tr> <tr><td>0- 60</td><td>1847</td><td>82.6</td></tr> <tr><td>0- 90</td><td>2235</td><td>100.0</td></tr> </tbody> </table> <p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>2608</td><td>2504</td><td>2331</td></tr> <tr><td>55</td><td>2340</td><td>2178</td><td>1991</td></tr> <tr><td>65</td><td>2030</td><td>1882</td><td>1716</td></tr> <tr><td>75</td><td>1627</td><td>1585</td><td>1368</td></tr> <tr><td>85</td><td>1064</td><td>1056</td><td>978</td></tr> </tbody> </table> <p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th rowspan="2">Ceiling (pcc)</th> <th colspan="3">80%</th> <th colspan="3">70%</th> <th colspan="3">50%</th> </tr> <tr> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>Wall (pw)</td> <td>70</td> <td>50</td> <td>30</td> <td>70</td> <td>50</td> <td>30</td> <td>50</td> <td>30</td> </tr> <tr> <td>RCR</td> <td colspan="9">Zonal cavity method - 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1x4 SofTrace surface LED, 2600 nominal delivered lumens, diffuse

<p>Catalog No. ISST26L840-4-D-UNV-DIM</p> <p>Test No. 35064</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens/Lamp 2612</p> <p>Input Watts 22.6</p> <hr/> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.07 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>	<p>Candela distribution</p> <table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>1082</td><td>1082</td><td>1082</td><td>1082</td></tr> <tr><td>5</td><td>1066</td><td>1079</td><td>1085</td><td>1079</td></tr> <tr><td>15</td><td>1021</td><td>1038</td><td>1043</td><td>1038</td></tr> <tr><td>25</td><td>928</td><td>938</td><td>932</td><td>938</td></tr> <tr><td>35</td><td>793</td><td>787</td><td>759</td><td>787</td></tr> <tr><td>45</td><td>631</td><td>606</td><td>563</td><td>606</td></tr> <tr><td>55</td><td>459</td><td>427</td><td>390</td><td>427</td></tr> <tr><td>65</td><td>293</td><td>272</td><td>248</td><td>272</td></tr> <tr><td>75</td><td>144</td><td>140</td><td>121</td><td>140</td></tr> <tr><td>85</td><td>32</td><td>31</td><td>29</td><td>31</td></tr> </tbody> </table>	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	<p>LER – 115</p> <p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0- 30</td><td>824</td><td>31.5</td></tr> <tr><td>0- 40</td><td>1313</td><td>50.2</td></tr> <tr><td>0- 60</td><td>2159</td><td>82.6</td></tr> <tr><td>0- 90</td><td>2613</td><td>100.0</td></tr> </tbody> </table> <p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>3054</td><td>2930</td><td>2725</td></tr> <tr><td>55</td><td>2738</td><td>2545</td><td>2327</td></tr> <tr><td>65</td><td>2375</td><td>2203</td><td>2006</td></tr> <tr><td>75</td><td>1904</td><td>1851</td><td>1601</td></tr> <tr><td>85</td><td>1245</td><td>1229</td><td>1139</td></tr> </tbody> </table> <p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th rowspan="2">Ceiling (pcc)</th> <th colspan="3">80%</th> <th colspan="3">70%</th> <th colspan="3">50%</th> </tr> <tr> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>Wall (pw)</td> <td>70</td> <td>50</td> <td>30</td> <td>70</td> <td>50</td> <td>30</td> <td>50</td> <td>30</td> </tr> <tr> <td>RCR</td> <td colspan="9">Zonal cavity method - 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Effective floor reflectance = 20%									Room Cavity Ratio	0	118	118	118	115	115	115	111	111	1	109	105	101	107	103	98	97	94	94	2	100	92	85	96	90	83	86	81	81	3	92	81	73	89	80	72	77	70	70	4	83	72	64	81	70	64	68	61	61	5	78	65	56	76	64	56	61	55	55	6	71	58	51	69	57	50	56	48	48	7	67	54	45	65	53	45	52	44	44	8	61	48	40	60	48	40	46	40	40	9	57	45	36	56	45	36	44	36	36	10	55	41	34	54	40	34	40	34	34
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																																																																																																																																																																																																																																																			
Degrees	Lumens	% Luminaire																																																																																																																																																																																																																																																					
0- 30	824	31.5																																																																																																																																																																																																																																																					
0- 40	1313	50.2																																																																																																																																																																																																																																																					
0- 60	2159	82.6																																																																																																																																																																																																																																																					
0- 90	2613	100.0																																																																																																																																																																																																																																																					
Angle	End	45°	Cross																																																																																																																																																																																																																																																				
45	3054	2930	2725																																																																																																																																																																																																																																																				
55	2738	2545	2327																																																																																																																																																																																																																																																				
65	2375	2203	2006																																																																																																																																																																																																																																																				
75	1904	1851	1601																																																																																																																																																																																																																																																				
85	1245	1229	1139																																																																																																																																																																																																																																																				
Ceiling (pcc)	80%			70%			50%																																																																																																																																																																																																																																																
	70	50	30	70	50	30	50	30																																																																																																																																																																																																																																															
Wall (pw)	70	50	30	70	50	30	50	30																																																																																																																																																																																																																																															
RCR	Zonal cavity method - Effective floor reflectance = 20%																																																																																																																																																																																																																																																						
Room Cavity Ratio	0	118	118	118	115	115	115	111	111																																																																																																																																																																																																																																														
1	109	105	101	107	103	98	97	94	94																																																																																																																																																																																																																																														
2	100	92	85	96	90	83	86	81	81																																																																																																																																																																																																																																														
3	92	81	73	89	80	72	77	70	70																																																																																																																																																																																																																																														
4	83	72	64	81	70	64	68	61	61																																																																																																																																																																																																																																														
5	78	65	56	76	64	56	61	55	55																																																																																																																																																																																																																																														
6	71	58	51	69	57	50	56	48	48																																																																																																																																																																																																																																														
7	67	54	45	65	53	45	52	44	44																																																																																																																																																																																																																																														
8	61	48	40	60	48	40	46	40	40																																																																																																																																																																																																																																														
9	57	45	36	56	45	36	44	36	36																																																																																																																																																																																																																																														
10	55	41	34	54	40	34	40	34	34																																																																																																																																																																																																																																														

1SST SofTrace surface LED 1x4

2200, 2600, 2900 or 3500lm

1x4 SofTrace surface LED, 2900 nominal delivered lumens, diffuse

Catalog No.	1SST29L840-4-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

LER – 115

Light Distribution			Average Luminance			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	960	31.5	45	3557	3407	3179
0-40	1529	50.2	55	3193	2955	2717
0-60	2515	82.6	65	2766	2567	2338
0-90	3044	100.0	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%								
Room Cavity Ratio	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	

1x4 SofTrace surface LED, 3500 nominal delivered lumens, diffuse

Catalog No.	1SST35L840-4-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

LER – 114

Light Distribution			Average Luminance			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	1122	31.5	45	4152	3991	3711
0-40	1788	50.2	55	3731	3470	3168
0-60	2940	82.6	65	3223	2997	2727
0-90	3558	100.0	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%								
Room Cavity Ratio	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	

