

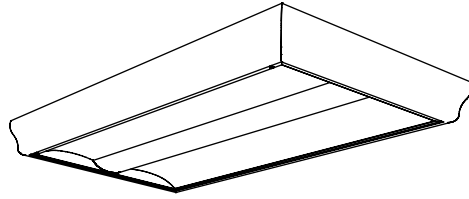
# Day-Brite CFI

by  Signify

## Surface

SofTrace LED 2x4

3600, 4200, 5000 or 6300lm



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: 2SST36L840-4-D-UNV-DIM

Width	Family	Lumen Package	Color	Length	Center Diffuser	Voltage	Driver	Options
2	SST		—	4	—	—	—	
2 2'	ST Softrace	<b>36L</b> 3600 nominal delivered lumens <b>42L</b> 4200 nominal delivered lumens <b>50L</b> 5000 nominal delivered lumens <b>63L</b> 6300 nominal delivered lumens	<b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K <b>850</b> 80 CRI, 5000K	4 4'	<b>D</b> Diffuse (Ribbed) <b>DS</b> Diffuse (Smooth) <b>PMW</b> Round perforated with white overlay	<b>UNV</b> Universal Voltage 120-277V <b>347</b> 347V	<b>DIM</b> 0-10V dimming <b>SDIM</b> <sup>2</sup> Step dimming to 40% input power <b>DALI</b> DALI dimming	<b>CC</b> Custom Color <b>GLR</b> Fusing, fast blow

#### 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 lumen package.

### Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4	2SST36L840	29.2	125
	2SST42L840	33.4	124
	2SST50L840	40.0	124
	2SST63L840	51.3	122



# 2SST SofTrace surface LED 2x4

3600, 4200, 5000 or 6300lm

## 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 3,600 to 6,300 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.

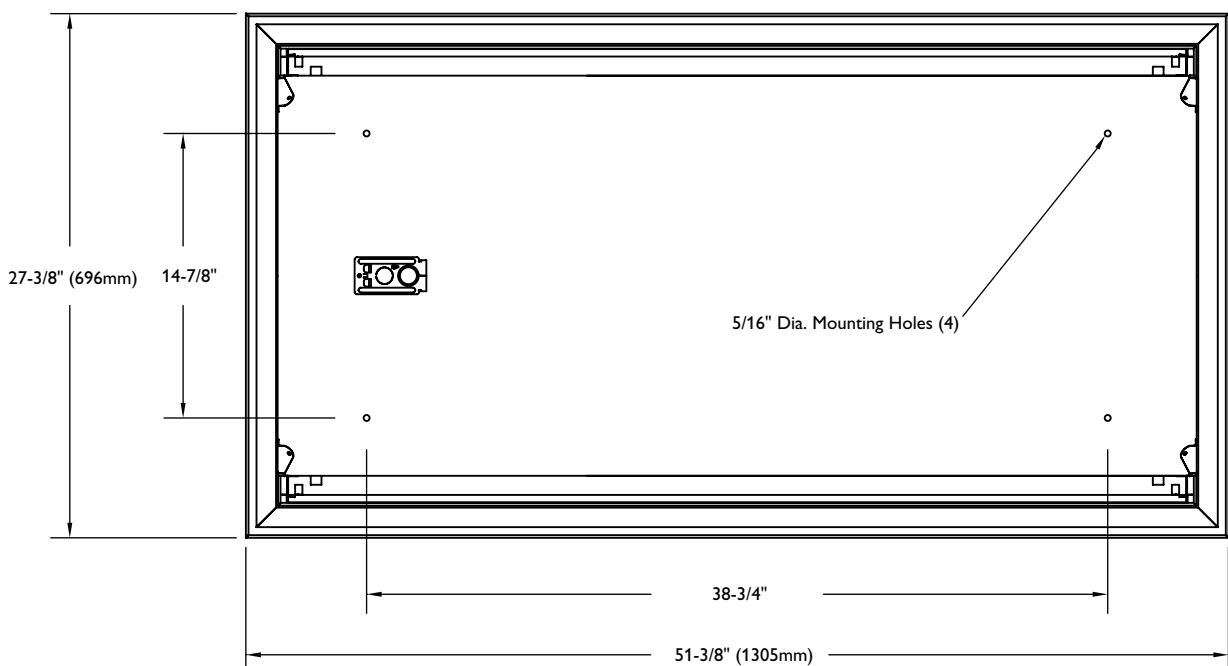
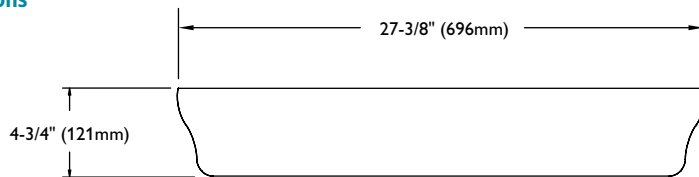
## Electrical

- 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](http://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

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

## Dimensions



# 2SST SofTrace surface LED 2x4

3600, 4200, 5000 or 6300lm

## 2x4 SofTrace surface LED, 3600 nominal delivered lumens, diffuse

<b>Catalog No.</b>	2SST36L840-4-D-UNV-DIM	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
<b>Test No.</b>	35355	Vertical Angle	Horizontal Angle				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
<b>S/MH</b>	1.3		0°	45°	90°	-45°	<b>0-30</b>	1005	27.5	<b>45</b>	1740	1883	1968
<b>Lamp Type</b>	LED	<b>0</b>	1287	1287	1287	1287	<b>0-40</b>	1646	45.1	<b>55</b>	1613	1774	1850
<b>Lumens/Lamp</b>	3650	<b>5</b>	1273	1282	1290	1282	<b>0-60</b>	2881	78.9	<b>65</b>	1446	1635	1722
<b>Input Watts</b>	29.2	<b>15</b>	1222	1244	1259	1244	<b>0-90</b>	3650	100.0	<b>75</b>	1195	1505	1655
Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.92</b> based on 3000 hrs. and \$.08 pwr KWH.		<b>25</b>	1119	1157	1186	1157							
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		<b>35</b>	972	1027	1068	1027							
Photometric values based on test performed in compliance with LM-79.		<b>45</b>	793	857	896	857							
		<b>55</b>	596	656	683	656							
		<b>65</b>	394	445	469	445							
		<b>75</b>	199	251	276	251							
		<b>85</b>	44	75	70	75							

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<b>Light Distribution</b>			<b>Average Luminance</b>			
<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
<b>0-30</b>	1005	27.5	<b>45</b>	1740	1883	1968
<b>0-40</b>	1646	45.1	<b>55</b>	1613	1774	1850
<b>0-60</b>	2881	78.9	<b>65</b>	1446	1635	1722
<b>0-90</b>	3650	100.0	<b>75</b>	1195	1505	1655
			<b>85</b>	784	1333	1252

## 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	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

## 2x4 SofTrace surface LED, 4200 nominal delivered lumens, diffuse

<b>Catalog No.</b>	2SST42L840-4-D-UNV-DIM	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
<b>Test No.</b>	35357	Vertical Angle	Horizontal Angle				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
<b>S/MH</b>	1.3		0°	45°	90°	-45°	<b>0-30</b>	1146	27.6	<b>45</b>	1981	2146	2243
<b>Lamp Type</b>	LED	<b>0</b>	1467	1467	1467	1467	<b>0-40</b>	1876	45.1	<b>55</b>	1835	2022	2107
<b>Lumens/Lamp</b>	4158	<b>5</b>	1451	1462	1471	1462	<b>0-60</b>	3282	78.9	<b>65</b>	1645	1859	1958
<b>Input Watts</b>	33.4	<b>15</b>	1393	1418	1436	1418	<b>0-90</b>	4159	100.0	<b>75</b>	1356	1707	1874
Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.92</b> based on 3000 hrs. and \$.08 pwr KWH.		<b>25</b>	1276	1319	1352	1319							
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		<b>35</b>	1107	1171	1218	1171							
Photometric values based on test performed in compliance with LM-79.		<b>45</b>	902	977	1021	977							
		<b>55</b>	678	747	778	747							
		<b>65</b>	448	506	533	506							
		<b>75</b>	226	285	312	285							
		<b>85</b>	50	85	79	85							

## LER – 124

<b>Light Distribution</b>			<b>Average Luminance</b>			
<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
<b>0-30</b>	1146	27.6	<b>45</b>	1981	2146	2243
<b>0-40</b>	1876	45.1	<b>55</b>	1835	2022	2107
<b>0-60</b>	3282	78.9	<b>65</b>	1645	1859	1958
<b>0-90</b>	4159	100.0	<b>75</b>	1356	1707	1874
			<b>85</b>	882	1516	1415

## 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	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

# 2SST SofTrace surface LED 2x4

3600, 4200, 5000 or 6300lm

## 2x4 SofTrace surface LED, 5000 nominal delivered lumens, diffuse

## LER – 124

<b>Catalog No.</b> 2SST50L840-4-D-UNV-DIM <b>Test No.</b> 35358 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 4971 <b>Input Watts</b> 40.0  Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.94</b> 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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>								
	Vertical Angle	Horizontal Angle			Degrees	Lumens	% Luminaire	Angle	End	45'	Cross					
		0°	45°	90°	-45°	0-30	1369	27.5	45	2370	2565	2678				
	0	1752	1752	1752	1752	0-40	2241	45.1	55	2196	2416	2517				
	5	1733	1746	1757	1746	0-60	3923	78.9	65	1967	2224	2346				
	15	1664	1695	1715	1695	0-90	4972	100.0	75	1624	2044	2253				
	25	1525	1576	1614	1576				85	1055	1792	1687				
	35	1322	1400	1454	1400	<b>Coefficients of Utilization</b>										
	45	1079	1168	1220	1168	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>										
	55	811	892	930	892	Ceiling (pcc)	80%			70%			50%			
65	535	605	639	605	Wall (pw)	70	50	30	70	50	30	50	30			
75	271	341	376	341	RCR	Zonal cavity method - Effective floor reflectance = 20%										
85	59	101	95	101	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			

## 2x4 SofTrace surface LED, 6300 nominal delivered lumens, diffuse

## LER – 123

<b>Catalog No.</b> 2SST63L840-4-D-UNV-DIM <b>Test No.</b> 35360 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 6305 <b>Input Watts</b> 51.3  Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.95</b> 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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>								
	Vertical Angle	Horizontal Angle			Degrees	Lumens	% Luminaire	Angle	End	45'	Cross					
		0°	45°	90°	-45°	0-30	1737	27.5	45	3006	3250	3405				
	0	2224	2224	2224	2224	0-40	2843	45.1	55	2788	3060	3204				
	5	2199	2216	2230	2216	0-60	4976	78.9	65	2500	2821	2981				
	15	2111	2150	2177	2150	0-90	6306	100.0	75	2064	2599	2851				
	25	1933	1998	2050	1998				85	1345	2391	2134				
	35	1677	1774	1847	1774	<b>Coefficients of Utilization</b>										
	45	1369	1480	1551	1480	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>										
	55	1030	1131	1183	1131	Ceiling (pcc)	80%			70%			50%			
65	680	768	811	768	Wall (pw)	70	50	30	70	50	30	50	30			
75	344	433	475	433	RCR	Zonal cavity method - Effective floor reflectance = 20%										
85	76	134	120	134	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			

