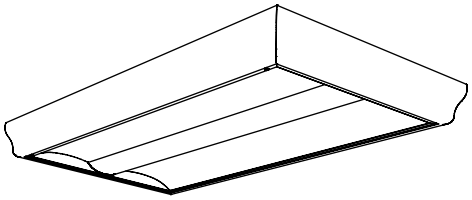
Day-Brite CFI by Signify

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	**36L** 3600 nominal delivered lumens **42L** 4200 nominal delivered lumens **50L** 5000 nominal delivered lumens **63L** 6300 nominal delivered lumens	**835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K	**4** 4′	**D** Diffuse (Ribbed) **DS** Diffuse (Smooth) **PMW** Round perforated with white overlay	**UNV** Universal Voltage 120-277V **347** 347V	**DIM** 0-10V dimming **SDIM**[2] 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.
2 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 rea of use, consult factory for compatibility.

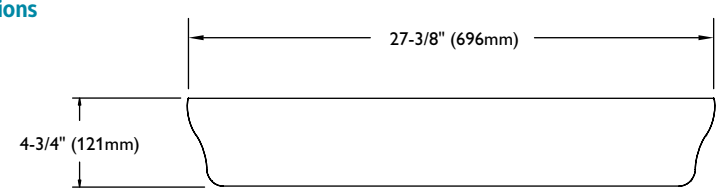
Electrical

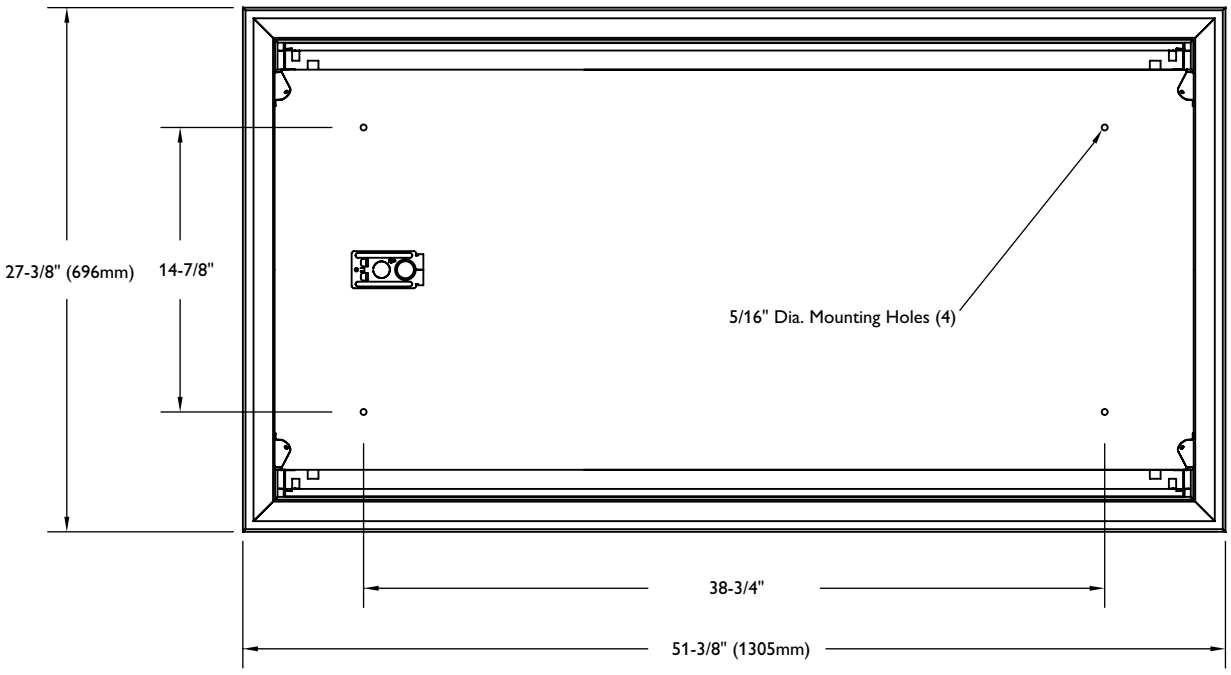
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable, if required, via plug-in connectors.
- 0-10V dimming is standard.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models so equipped).
  Visit **www.philips.com/warrantie**s 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

Catalog No.	2SST36L840-4-D-UNV-DIM
Test No.	35355
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	3650
Input Watts	29.2

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.

Candela distribution

Vertical Angle	Horizontal Angle 0°	45°	90°	-45°
0	1287	1287	1287	1287
5	1273	1282	1290	1282
15	1222	1244	1259	1244
25	1119	1157	1186	1157
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

LER – 125

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1005	27.5
0- 40	1646	45.1
0- 60	2881	78.9
0- 90	3650	100.0

Average Luminance

Angle	End	45°	Cross
45	1740	1883	1968
55	1613	1774	1850
65	1446	1635	1722
75	1195	1505	1655
85	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%							
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

Room Cavity Ratio

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

Catalog No.	2SST42L840-4-D-UNV-DIM
Test No.	35357
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	4158
Input Watts	33.4

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.

Candela distribution

Vertical Angle	Horizontal Angle 0°	45°	90°	-45°
0	1467	1467	1467	1467
5	1451	1462	1471	1462
15	1393	1418	1436	1418
25	1276	1319	1352	1319
35	1107	1171	1218	1171
45	902	977	1021	977
55	678	747	778	747
65	448	506	533	506
75	226	285	312	285
85	50	85	79	85

LER – 124

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1146	27.6
0- 40	1876	45.1
0- 60	3282	78.9
0- 90	4159	100.0

Average Luminance

Angle	End	45°	Cross
45	1981	2146	2243
55	1835	2022	2107
65	1645	1859	1958
75	1356	1707	1874
85	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%							
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

Room Cavity Ratio

2SST SofTrace surface LED 2x4

3600, 4200, 5000 or 6300lm

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

LER – 124

Catalog No.	2SST50L840-4-D-UNV-DIM
Test No.	35358
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	4971
Input Watts	40.0

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.

Candela distribution

Vertical Angle	Horizontal Angle 0°	45°	90°	-45°
0	1752	1752	1752	1752
5	1733	1746	1757	1746
15	1664	1695	1715	1695
25	1525	1576	1614	1576
35	1322	1400	1454	1400
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

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1369	27.5
0- 40	2241	45.1
0- 60	3923	78.9
0- 90	4972	100.0

Average Luminance

Angle	End	45°	Cross
45	2370	2565	2678
55	2196	2416	2517
65	1967	2224	2346
75	1624	2044	2253
85	1055	1792	1687

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	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

Room Cavity Ratio

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

LER – 123

Catalog No.	2SST63L840-4-D-UNV-DIM
Test No.	35360
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	6305
Input Watts	51.3

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.

Candela distribution

Vertical Angle	Horizontal Angle 0°	45°	90°	-45°
0	2224	2224	2224	2224
5	2199	2216	2230	2216
15	2111	2150	2177	2150
25	1933	1998	2050	1998
35	1677	1774	1847	1774
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

Light Distribution

Degrees	Lumens	% Luminaire
0- 30	1737	27.5
0- 40	2843	45.1
0- 60	4976	78.9
0- 90	6306	100.0

Average Luminance

Angle	End	45°	Cross
45	3006	3250	3405
55	2788	3060	3204
65	2500	2821	2981
75	2064	2599	2851
85	1345	2391	2134

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	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

Room Cavity Ratio

Signify

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