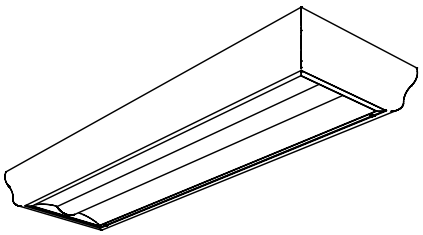
# Day-Brite CFI by Signify

## 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<br>**26L** 2600 nominal delivered lumens<br>**29L** 2900 nominal delivered lumens<br>**35L** 3500 nominal delivered lumens | **835** 80 CRI, 3500K<br>**840** 80 CRI, 4000K<br>**850** 80 CRI, 5000K | **4** 4′ | **D** Diffuse<br>**PMW** Round perforated with white overlay | **UNV** Universal voltage 120-277V<br>**347** 347V | **DIM** 0-10V dimming<br>**SDIM** Step dimming to 40% input power<br>**DALI** DALI dimming | **CC** Custom Color<br>**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.

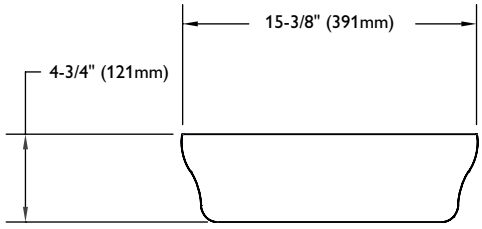
### Electrical

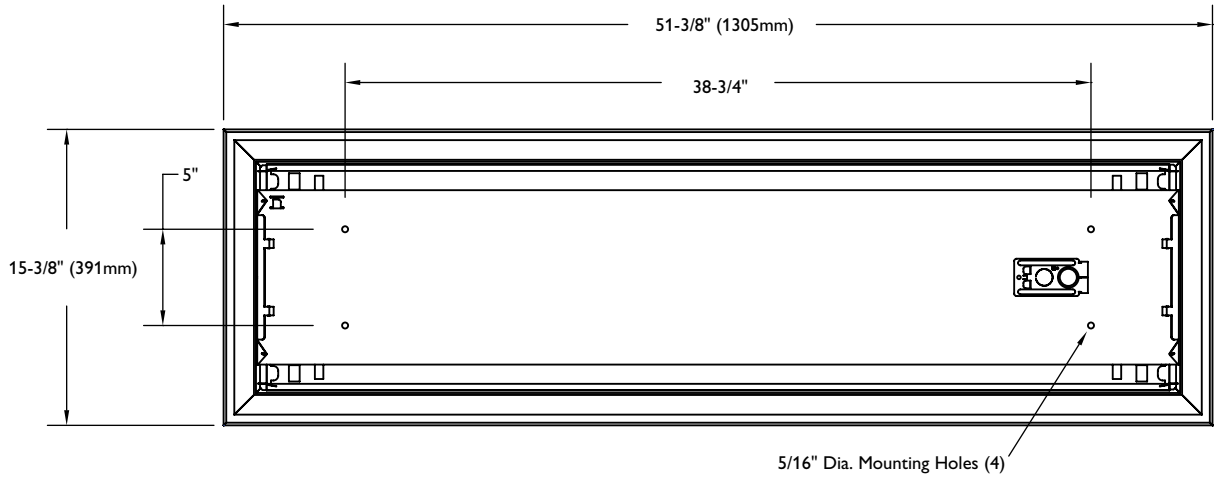
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable, if required, via plug-in connectors.
- 0-10V dimming is standard.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models 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

**LER – 115**

| | |
|---|---|
| **Catalog No.** | 1SST22L840-4-D-UNV-DIM |
| **Test No.** | 35063 |
| **S/MH** | 1.2 |
| **Lamp Type** | LED |
| **Lumens/Lamp** | 2234 |
| **Input Watts** | 19.4 |

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** | 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 |

#### Light Distribution

| Degrees | Lumens | % Luminaire |
|---|---|---|
| **0- 30** | 705 | 31.5 |
| **0- 40** | 1123 | 50.2 |
| **0- 60** | 1847 | 82.6 |
| **0- 90** | 2235 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 2608 | 2504 | 2331 |
| **55** | 2340 | 2178 | 1991 |
| **65** | 2030 | 1882 | 1716 |
| **75** | 1627 | 1585 | 1368 |
| **85** | 1064 | 1056 | 978 |

#### 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 | 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 |

Room Cavity Ratio

### 1x4 SofTrace surface LED, 2600 nominal delivered lumens, diffuse

**LER – 115**

| | |
|---|---|
| **Catalog No.** | 1SST26L840-4-D-UNV-DIM |
| **Test No.** | 35064 |
| **S/MH** | 1.2 |
| **Lamp Type** | LED |
| **Lumens/Lamp** | 2612 |
| **Input Watts** | 22.6 |

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** | 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 |

#### Light Distribution

| Degrees | Lumens | % Luminaire |
|---|---|---|
| **0- 30** | 824 | 31.5 |
| **0- 40** | 1313 | 50.2 |
| **0- 60** | 2159 | 82.6 |
| **0- 90** | 2613 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 3054 | 2930 | 2725 |
| **55** | 2738 | 2545 | 2327 |
| **65** | 2375 | 2203 | 2006 |
| **75** | 1904 | 1851 | 1601 |
| **85** | 1245 | 1229 | 1139 |

#### 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 | 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 |

Room Cavity Ratio

# 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

| Degrees | Lumens | % Luminaire |
|---|---|---|
| **0- 30** | 960 | 31.5 |
| **0- 40** | 1529 | 50.2 |
| **0- 60** | 2515 | 82.6 |
| **0- 90** | 3044 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 3557 | 3407 | 3179 |
| **55** | 3193 | 2955 | 2717 |
| **65** | 2766 | 2567 | 2338 |
| **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% | | | | | | | |
| 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 |

Room Cavity Ratio

### 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

| Degrees | Lumens | % Luminaire |
|---|---|---|
| **0- 30** | 1122 | 31.5 |
| **0- 40** | 1788 | 50.2 |
| **0- 60** | 2940 | 82.6 |
| **0- 90** | 3558 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 4152 | 3991 | 3711 |
| **55** | 3731 | 3470 | 3168 |
| **65** | 3223 | 2997 | 2727 |
| **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% | | | | | | | |
| 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 |

Room Cavity Ratio



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