

Day-Brite CFI

by Signify

Recessed

SofTrace LED 2x4

with tunable white technology
4000/4400/4600/5300 or
6200 lm



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

Day-Brite / CFI SofTrace LED recessed architectural provides excellent visual comfort. Its modern architectural styling complements any space. Tunable white light allows color temperature flexibility between 2700K and 6500K CCT.

Ordering guide

Example: 2STG53L8TW-4-D-UNV-DTW

| Width | Family | Ceiling Type | Lumen Package ¹ | Color Temp. | Length | Center Diffusers | Voltage | Driver | Options |
|-------|-------------|---|--|--|--------|---|---------------------------------------|---------------------------------------|--|
| 2 | ST | | | 8TW | 4 | | UNV | DTW | |
| 2 2' | ST Softrace | G Grid F Flange Z Z Spline / Modular | 40L 4000 nominal delivered lumens 44L 4400 nominal delivered lumens 46L 4600 nominal delivered lumens 53L 5300 nominal delivered lumens 62L 6200 nominal delivered lumens | 8TW 80 CRI, 2700K thru 6500K white light tuning | 4 4' | D Diffuse (ribbed) DS Diffuse (smooth) PMW Round perf w/ white overlay | UNV Universal voltage 120-277V | DTW Dual channel tunable white | EMLED Internal emergency, 1100lm nominal, 6500K color circuit only F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/7W 3/8" single flex, 7 wire 18 gauge 6' for dimmable luminaires GLR Fusing, fast blow DSC Quick driver disconnect |

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.

Accessories (order separately)

- **FKDP24** Flange conversion kit 2'x4'
- **FMA24** 2'x4" "F" mounting frame for NEMA "F" mounting



2ST SofTrace LED recessed 2x4

with tunable white technology, 4000/4400/4600/5300/6200 lumens

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.
- Grid, Flange or Z-spline/ Modular models available.

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.

Electrical

- Must order compatible Philips Lighting control system.
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- Five-year luminaire warranty including LED boards and driver.
- High efficiency LEDs have 60,000 hour L70 rated life (defined as 70% lumen maintenance.)
- 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)
 - Single piece acrylic lens with smooth center diffuser (DS)
 - Three piece acrylic lens with round perforated steel center diffuser (PMW)

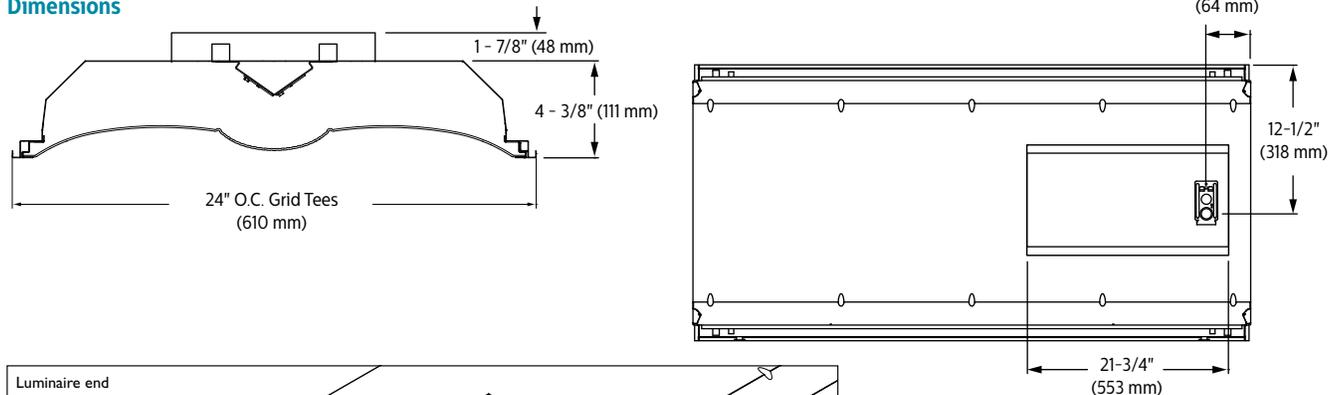
General Notes

- All options factory installed.
- All accessories are field installed.
- 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.

Controls

- Luminaires are not sold individually and are only compatible with load controllers, sensors, user interfaces and front end software from Philips. Philips controls platform allows for more flexibility with customized lighting scenes and behaviors as well as scalability of the tunable white solution into a more extensive lighting network management system. To learn more about the Philips controls solution please visit our tunable white page or <http://www.lightingproducts.philips.com/our-brands/philips-controls/dynalite.html>

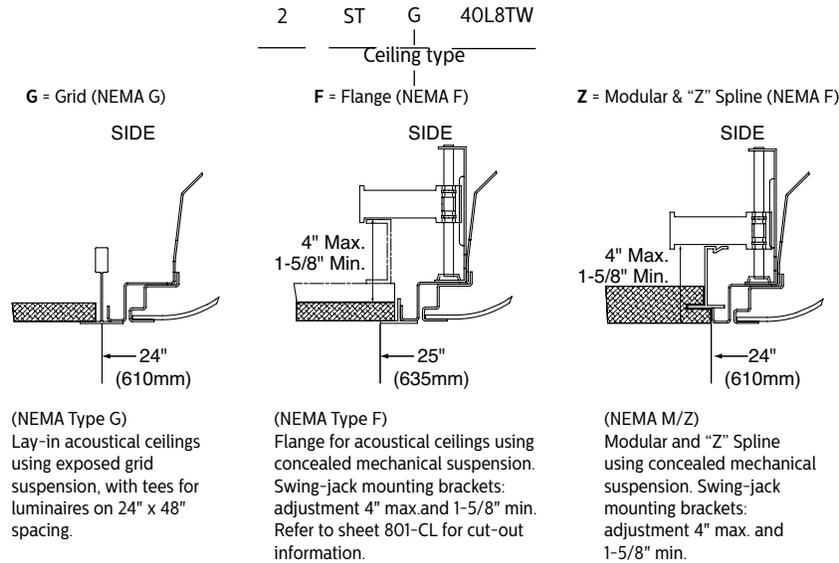
Dimensions



2ST SofTrace LED recessed 2x4

with tunable white technology, 4000/4400/4600/5300/6200 lumens

Ceiling configuration



Electrical Specifications

| Input Voltage | 120V | | | | 277V | | | |
|-------------------------------|-------|------|-------|-------|------|------|-------|-------|
| | 2700K | | | | | | | |
| Nominal CCT | 2700K | | | | | | | |
| Nominal Lumens | 4000 | 4400 | 4600 | 5300 | 4000 | 4400 | 4600 | 5300 |
| Commissioned State | | | | | | | | |
| Power (W) | 41.8 | 47.0 | 55.9 | 65.7 | 41.5 | 46.4 | 55.0 | 64.3 |
| Current (A) | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.2 | 0.2 | 0.3 |
| Power Factor | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| THD (%) | 14.0 | 13.0 | 11.0 | 10.0 | 17.0 | 16.5 | 16.0 | 14.5 |
| Off State Power (W) | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 0.9 |
| Non-Commissioned State | | | | | | | | |
| Power (W) | 78.0 | 87.0 | 102.0 | 116.0 | 77.0 | 86.0 | 101.0 | 113.0 |
| Current (A) | 0.7 | 0.7 | 0.9 | 1.0 | 0.3 | 0.3 | 0.4 | 0.4 |

Photometry

2x4 SofTrace LED recessed with tunable white, 4400 nominal delivered lumens, diffuse, 2700K CCT

LER – 104

| Catalog No. | 2STG44L8TW-4-D-UNV-DTW | Candlepower | | | | Light Distribution | | | Average Luminance | | | | |
|---|------------------------|--|------|------|-------|--------------------|--------|-------------|-------------------|------|------|-------|--|
| | | Angle | End | 45 | Cross | Degrees | Lumens | % Luminaire | Angle | End | 45' | Cross | |
| Test No. | 36600 | 0 | 1519 | 1519 | 1519 | 0-30 | 1181 | 27.8 | 45 | 1936 | 2159 | 2278 | |
| S/MH | 1.3 | 5 | 1499 | 1512 | 1519 | 0-40 | 1937 | 45.5 | 55 | 1775 | 2036 | 2139 | |
| Lamp Type | LED | 15 | 1437 | 1460 | 1478 | 0-60 | 3405 | 80.0 | 65 | 1469 | 1786 | 1911 | |
| Lumens/Lamp | 4255 | 25 | 1312 | 1358 | 1396 | 0-90 | 4254 | 100.0 | 75 | 1199 | 1557 | 1710 | |
| Input Watts | 41 | 35 | 1134 | 1210 | 1272 | 0-180 | 4255 | 100.0 | 85 | 771 | 1329 | 1145 | |
| Input Watts | 41 | 45 | 921 | 1027 | 1083 | | | | | | | | |
| CCT | 2700K | 55 | 685 | 785 | 825 | | | | | | | | |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.31 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. | | 65 | 418 | 508 | 543 | | | | | | | | |
| | | 75 | 209 | 271 | 298 | | | | | | | | |
| | | 85 | 45 | 78 | 67 | | | | | | | | |
| | | Coefficients of Utilization | | | | | | | | | | | |
| | | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) | | | | | | | | | | | |
| | | pcc | 80 | | | 70 | | | 50 | | | | |
| | | pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | | | |
| | | RCR | 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | | |
| | | 1 | 109 | 104 | 100 | 106 | 102 | 97 | 97 | 93 | | | |
| | | 2 | 98 | 91 | 83 | 95 | 89 | 82 | 84 | 80 | | | |
| 3 | 90 | 80 | 71 | 88 | 78 | 70 | 75 | 68 | | | | | |
| 4 | 82 | 70 | 61 | 80 | 68 | 60 | 67 | 59 | | | | | |
| 5 | 76 | 63 | 54 | 73 | 61 | 54 | 59 | 53 | | | | | |
| 6 | 69 | 56 | 47 | 68 | 56 | 47 | 54 | 46 | | | | | |
| 7 | 65 | 52 | 42 | 63 | 51 | 42 | 48 | 41 | | | | | |
| 8 | 60 | 46 | 39 | 58 | 46 | 38 | 45 | 38 | | | | | |
| 9 | 56 | 42 | 34 | 55 | 42 | 34 | 40 | 34 | | | | | |
| 10 | 53 | 40 | 32 | 52 | 39 | 32 | 38 | 30 | | | | | |

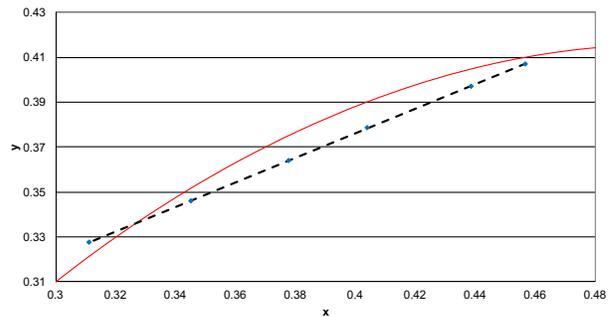
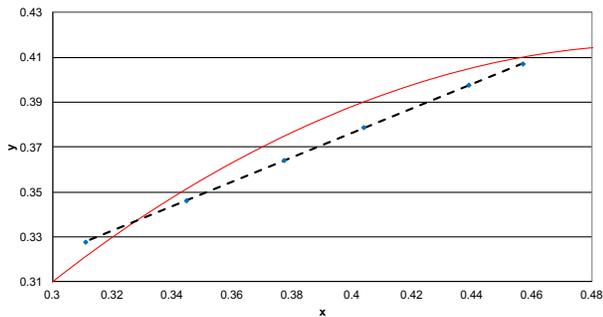
2ST SofTrace LED recessed 2x4

with tunable white technology, 4000/4400/4600/5300/6200 lumens

Color information

| 2x4 SofTrace 4000lm | 2700K | 3000K | 3500K | 4000K | 5000K | 6500K |
|---------------------|---------|---------|---------|---------|---------|--------|
| Flux | 3790 | 3798 | 3805 | 3885 | 3811 | 3919 |
| Power | 41.4 | 42.9 | 40.7 | 40.2 | 38.2 | 35.4 |
| Efficacy | 91.5 | 88.6 | 93.5 | 96.8 | 99.8 | 110.7 |
| CCT | 2716 | 2915 | 3431 | 3990 | 5000 | 6606 |
| CRI | 83 | 84 | 87 | 87 | 87 | 84 |
| R9 | 18 | 23 | 33 | 37 | 32 | 16 |
| x | 0.4568 | 0.4387 | 0.4037 | 0.3774 | 0.3446 | 0.3110 |
| y | 0.4071 | 0.3974 | 0.3784 | 0.3641 | 0.3462 | 0.3278 |
| Duv | -0.0010 | -0.0029 | -0.0051 | -0.0051 | -0.0026 | 0.0034 |

| 2x4 SofTrace 4400lm | 2700K | 3000K | 3500K | 4000K | 5000K | 6500K |
|---------------------|---------|---------|---------|---------|---------|--------|
| Flux | 4247 | 4257 | 4259 | 4346 | 4254 | 4349 |
| Power | 46.5 | 47.8 | 45.2 | 44.4 | 42.2 | 39.4 |
| Efficacy | 91.2 | 89.0 | 94.3 | 97.9 | 100.8 | 110.3 |
| CCT | 2717 | 2916 | 3427 | 3980 | 4984 | 6610 |
| CRI | 83 | 84 | 86 | 87 | 87 | 84 |
| R9 | 18 | 23 | 33 | 37 | 34 | 16 |
| x | 0.4567 | 0.4386 | 0.4039 | 0.3777 | 0.3450 | 0.3110 |
| y | 0.4070 | 0.3973 | 0.3784 | 0.3642 | 0.3462 | 0.3275 |
| Duv | -0.0011 | -0.0029 | -0.0052 | -0.0052 | -0.0027 | 0.0033 |



| 2x4 SofTrace 4600lm | 2700K | 3000K | 3500K | 4000K | 5000K | 6500K |
|---------------------|---------|---------|---------|---------|---------|--------|
| Flux | 4969 | 5017 | 4983 | 5079 | 4955 | 5030 |
| Power | 55.0 | 56.2 | 52.4 | 51.3 | 48.7 | 45.8 |
| Efficacy | 90.3 | 89.3 | 95.1 | 99.1 | 101.9 | 109.8 |
| CCT | 2719 | 2932 | 3424 | 3972 | 4971 | 6625 |
| CRI | 83 | 84 | 86 | 87 | 87 | 84 |
| R9 | 18 | 23 | 32 | 37 | 34 | 16 |
| x | 0.4564 | 0.4372 | 0.4040 | 0.3780 | 0.3454 | 0.3108 |
| y | 0.4068 | 0.3965 | 0.3784 | 0.3641 | 0.3461 | 0.3271 |
| Duv | -0.0011 | -0.0031 | -0.0052 | -0.0053 | -0.0029 | 0.0032 |

| 2x4 SofTrace 5300lm | 2700K | 3000K | 3500K | 4000K | 5000K | 6500K |
|---------------------|---------|---------|---------|---------|---------|--------|
| Flux | 5805 | 5877 | 5833 | 5936 | 5780 | 5813 |
| Power | 65.6 | 66.2 | 61.2 | 59.7 | 56.2 | 53.7 |
| Efficacy | 88.5 | 88.8 | 95.4 | 99.5 | 102.9 | 108.3 |
| CCT | 2722 | 2934 | 3423 | 3965 | 4962 | 6654 |
| CRI | 83 | 84 | 86 | 87 | 87 | 84 |
| R9 | 17 | 23 | 32 | 36 | 34 | 16 |
| x | 0.4561 | 0.4370 | 0.4039 | 0.3781 | 0.3456 | 0.3104 |
| y | 0.4066 | 0.3962 | 0.3781 | 0.3639 | 0.3459 | 0.3264 |
| Duv | -0.0012 | -0.0032 | -0.0053 | -0.0055 | -0.0031 | 0.0030 |

