



Day-Brite / CFI SofTrace LED recessed is a fully luminous aperture luminaire providing contemporary appeal to architectural spaces. The linear form includes a round profile center and contiguous contoured sides with balanced glare to provide a clean aesthetic appeal. Its architectural style coupled with controls options makes SofTrace an ideal choice for applications such as office, institutional, and healthcare where energy savings and customized effect are desired.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide – standard & wireless controls

Standard configurations available with all choices, unless otherwise noted. Base configurations selections indicated by blue.

example: 2STXG38L840-4-DS-UNV-DIM-SWZDT

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser	Voltage	Driver	Options
2	STX	G				4				
2 2'	STX SofTrace Gen 2	G Grid	Standard configurations 38L 3800 43L 4300 48L 4800 54L 5400 74L 7400 Base configuration 42B 4200	Blank Standard H ⁵ High	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (ribbed) DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 347 347V	DIM ¹ Dimming Step dimming to 40% input power SDIM LDE Lutron LDE5, 5% dimming LDEH Lutron LDE1, 1% dimming DALI DALI dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow GTD/E⁶ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR^{4,7} UL924 listed Bodine GTD factory installed between driver and sensor BSL10LST⁴ Bodine 10W selftesting battery pack BSL6LST⁴ Bodine 6W selftesting battery pack DSC Quick driver disconnect IAP² Integral Interact Pro RF sensor, enables wireless connected lighting control IAO² Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control SWZDT² Integral sensor, daylighting and occupancy, advanced grouping with dwell time CHIC³ Chicago Plenum rated

Ordering guide – PoE controls

example: 2STXG38L840-4-DS-LV-POE-IAO

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser
2	STX	G				4	
2 2'	STX SofTrace Gen 2	G Grid	Standard configurations 38L 3800 43L 4300 48L 4800	Blank Standard	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (ribbed) DS Diffuse (smooth)
Voltage		Driver		Options			
LV		POE					
LV Low voltage		POE Power over ethernet		IAO Integral Interact Office daylighting and occupancy sensor, enables wired connected lighting control EMPOE 600lm integral emergency driver and battery pack			

Footnotes

- 1 Integral controls options dimmable to 5% via wireless wall switch. Non-controls options are 0-10v dimmable to 1% for Standard configurations, and to 10% for Base configurations.
- 2 Specify only with -DIM driver option.
- 3 CHIC option not provided with air return functionality.
- 4 Emergency options not available with 347V.
- 5 High efficacy option may only be ordered with Standard lumen configurations.
- 6 Must be installed in conjunction with a UL1008 device.
- 7 Must be ordered with an integral sensing option.

Accessories (order separately)

- **FSF424** – 2'x4' surface mount field installation kit (field assembled)
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" ceiling
- **STXD524L** – 2'x4' SofTrace Gen2 smooth replacement lens
- **STXD524LC** – 2'x4' SofTrace Gen2 with controls smooth replacement lens
- **STXD24L** – 2'x4' SofTrace Gen2 ribbed replacement lens
- **STXD24LC** – 2'x4' SofTrace Gen2 with controls ribbed replacement lens



2STX SofTrace recessed 2x4

up to 7400 lumens

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complement any space.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Available in standard efficacy and high efficacy (H) configurations up to 130lm/W.
- 80 CRI minimum source provides a balanced spectral power distribution.
- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA24 accessory (ordered separately).

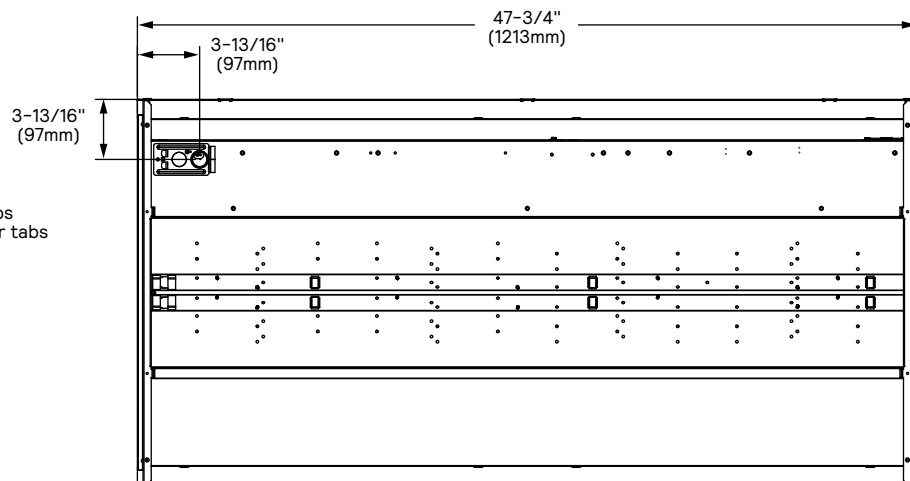
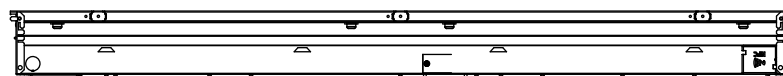
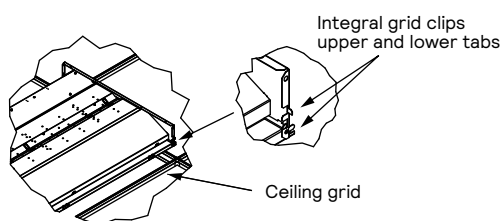
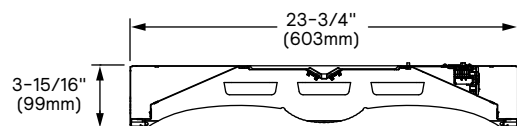
Construction/Finish

- Robust and durable dieformed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for access to LED boards and driver(s).
- Unique spring retainers ensure the diffuser is centered in the housing opening at all times.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Air return functionality is standard for all configurations. See air flow and noise data on page 4.

Energy data

Configuration	Nominal CCT/ CRI	Flux (lm)	Input Power (W)	Efficacy (LPW)	DLC
2STXG42B835	3500K/80	4206	34	123	Standard
2STXG42B840	4000K/80	4287	34	128	Premium
2STXG38L835	3500K/80	3844	32	120	Standard
2STXG38L840	4000K/80	3810	32	118	Standard
2STXG43L835	3500K/80	4282	36	119	Standard
2STXG43L840	4000K/80	4240	36	117	Standard
2STXG48L835	3500K/80	4889	41	119	Standard
2STXG48L840	4000K/80	4783	41	116	Standard
2STXG54L835	3500K/80	5521	48	115	Standard
2STXG54L840	4000K/80	5495	48	114	Standard
2STXG74L835	3500K/80	7452	70	107	Standard
2STXG74L840	4000K/80	7400	70	105	Standard

Dimensions



- Suitable for end to end continuous row mounting. 1" gap between luminaires requires chase nipple to accommodate through wiring (by others).
- Sheetmetal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Electrical

- Driver and LED board are accessible from below by easy removal of lens.
- Non-controls Base configurations 0-10V dimmable to 10%.
- Non-controls Standard configurations 0-10V dimmable to 1%.
- Standard configurations with controls options dimmable via wireless switches (see below).
- Predicted L70 lumen maintenance up to 85,000 hours at 25°C ambient for all configurations.
- Emergency battery packs accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Validation

- cETLus listed for use in damp locations
- Rated for direct contact with insulation (IC)
- CCEA Chicago Plenum listed
- SofTrace luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL

Environment

- Rated for dry or damp locations in operating ambient temperatures 0-30°C (32-86°F). 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. Not suitable for natatorium environments.

Warranty

- 5 year manufacturer's limited warranty.
- Visit signify.com/warranties for complete warranty information.

2STX SofTrace recessed 2x4

up to 7400 lumens

Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping and dwell time
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at www.componentcloud.philips.com/#/register;first=true
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

SofTrace shown with integral sensor



Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to **small and medium businesses** without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone)
- Prepare commissioning remotely via Interact Pro portal
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1)
- For more information on Interact Pro visit: www.interact-lighting.com/pro
- For more information on Interact Ready visit: www.philips.com/interact-ready

Interact Office (IAO)

- A wireless IoT connected lighting solution for **large enterprises** that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

Wired Controls Options

Interact Office Wired (PoE)

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

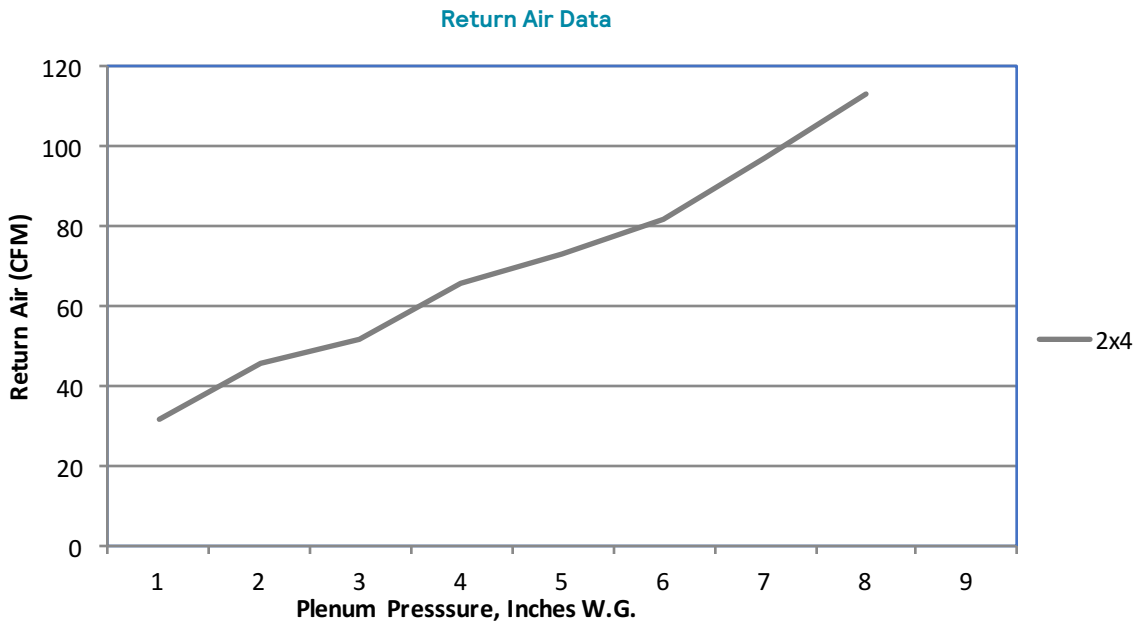
2STX SofTrace recessed 2x4

up to 7400 lumens

Air return



Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.



	2x4 Return Air – noise criteria							
CFM	27	37	53	62	71	80	90	102
NC (dB)	<15	24	25	29	33	35	38	40

2STX SofTrace recessed 2x4

up to 7400 lumens

Photometry

2x4 SofTrace recessed LED, base configuration, 4300 nominal delivered lumens

LER - 128

Catalog No. 2STXG42B840-4-D-UNV-DIM
Test No. 40708
S/MH 1.3
Lamp Type LED
Lumens 4287
Input Watts 34

Comparative yearly lighting energy cost per 1000 lumens – **\$1.88** 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.

Candlepower

Angle	End	45	Cross	Back-45
0	1491	1491	1491	1491
5	1466	1486	1498	1486
15	1409	1431	1445	1431
25	1298	1324	1340	1324
35	1143	1174	1191	1174
45	956	988	1007	988
55	741	776	797	776
65	506	548	572	548
75	248	300	330	300
85	60	102	103	102

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1154	26.9
0-40	1887	44.0
0-60	3337	77.8
0-90	4288	100.0
0-180	4288	100.0

Average Luminance

Zone	End	45°	Cross
45	2100	2170	2211
55	2006	2100	2158
65	1859	2014	2101
75	1485	1799	1980
85	1064	1810	1839

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
Wall	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	111	111	
1	108	103	98	106	101	96	96	93	
2	97	90	82	95	88	81	84	79	
3	90	79	70	86	77	69	73	68	
4	81	69	60	80	68	59	66	58	
5	75	61	53	72	60	53	58	51	
6	69	56	46	68	55	46	53	46	
7	64	51	41	63	50	41	47	40	
8	59	46	38	57	46	36	44	36	
9	56	42	34	55	41	34	40	34	
10	53	39	30	51	39	30	38	30	

2x4 SofTrace recessed LED, standard configuration, 4300 nominal delivered lumens

LER - 117

Catalog No. 2STXG43L840-4-D-UNV-DIM
Test No. 40676
S/MH 1.3
Lamp Type LED
Lumens 4240
Input Watts 36

Comparative yearly lighting energy cost per 1000 lumens – **\$2.03** 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.

Candlepower

Angle	End	45	Cross	Back-45
0	1472	1472	1472	1472
5	1447	1467	1476	1467
15	1393	1417	1429	1417
25	1286	1313	1329	1313
35	1134	1166	1185	1166
45	950	982	1003	982
55	737	771	794	771
65	468	508	551	508
75	247	298	327	298
85	61	100	101	100

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1142	26.9
0-40	1870	44.1
0-60	3313	78.1
0-90	4242	100.0
0-180	4242	100.0

Average Luminance

Zone	End	45°	Cross
45	2086	2157	2202
55	1995	2088	2149
65	1721	1866	2023
75	1481	1788	1962
85	1081	1773	1806

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
Wall	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	111	111	
1	108	104	98	106	101	96	96	93	
2	97	90	82	95	88	81	84	79	
3	90	79	70	86	77	69	73	68	
4	81	69	60	80	68	59	66	58	
5	75	61	53	72	60	53	58	52	
6	69	56	46	68	55	46	53	46	
7	65	51	41	63	50	41	48	40	
8	59	46	38	57	46	38	44	36	
9	56	42	34	55	41	34	40	34	
10	53	39	30	51	39	30	38	30	

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