Day-Brite

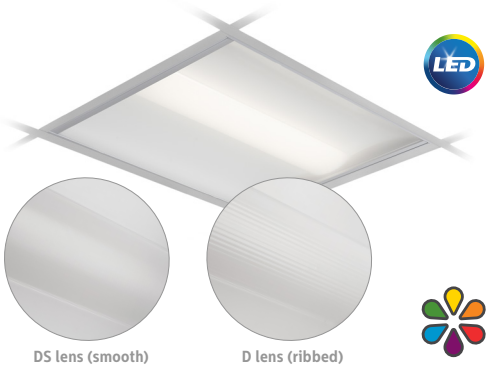
CFI

by signify

Recessed

SofTrace 2x2

2STX up to 4500 lumens



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.

SofTrace now offers AccuRender technology for the highest color quality at the highest efficacy.

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: 2STXG38L840-2-DS-UNV-DIM-SWZCS

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser	Voltage	Driver
2	STX	G			–	2 –	–	–	–
2 2'	**STX** SofTrace Gen 2	**G** Grid	**Base configuration** **38B** 3800 **Standard configurations** **30L** 3000 **38L** 3800 **45L** 4500 Other lumen packages may be ordered in increments of 100lm from 3000 to 4500 lumens	**Blank** Standard **H**[5] High	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K **AccuRender**[8,9] **930** 90 CRI, 3000K **935** 90 CRI, 3500K **940** 90 CRI, 4000K	**2** 2'	**D** Diffuse (ribbed) **DS** Diffuse (smooth)	**UNV** Universal Voltage, 120-277 volt **347** 347V	**DIM**[1] Dimming **SDIM** Step dimming to 40% input power **LDE** Lutron LDE5, 5% dimming **LDEH** Lutron LDE1, 1% dimming **DALI** DALI dimming

Options	
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
BSL10LST[4]	Bodine 10W selftesting battery pack
BSL6LST[4]	Bodine 6W selftesting battery pack
DSC	Quick driver disconnect
CHIC[3]	Chicago Plenum rated
ER100[4,6,7]	UL924 listed sensor bypass relay, factory installed between driver & sensor
GTD/E[4,6]	UL924 listed Bodine GTD factory installed on driver input
GTD/SNSR[4,6,7]	UL924 listed Bodine GTD factory installed between driver and sensor
SWZCS[2,10]	Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time
SWZDT[2]	SpaceWise only sensor, daylighting and occupancy, advanced grouping with dwell time
RADIO[2]	Interact Pro RF sensor, enables wireless connected lighting control
IAOSB[2,10]	Interact Office advanced wireless sensor bundle, integral SC1500 w/ IoT capabilities for enterprise scale projects
AG	Antimicrobial Finish
WL	Wet location listed

Ordering guide – PoE controls

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

Width	Family	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color	Length	Center Diffuser
2	STX	G			–	2 –	–
2 2'	**STX** SofTrace gen 2	**G** Grid	**Standard configurations** **30L** 3000 **38L** 3800 **45L** 4500	**Blank** Standard	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K	**2** 2'	**D** Diffuse (ribbed) **DS** Diffuse (smooth)

Voltage	Driver	Options
LV –	POE –	
LV Low voltage	**POE** Power over ethernet	**EMPOE** 600lm integral emergency driver and battery pack **IAO** Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control **IAOSB** Interact Office advanced wired sensor bundle, integral SC2000 w/IoT capabilities for enterprise scale projects

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 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.
8 AccuRender is 90CRI with R_9>50.
9 Option is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory.(DLC Standard efficacy only)
10 Must order IRT9015 Interact commissioning remote with each system order.

Accessories (order separately)

- **FSF422 –** 2'x2' surface mount field installation kit (field assembled)
- **FMA22 –** 2'x2' "F" mounting frame for NEMA "F" ceiling
- **STXDS22L –** 2'x2' SofTrace Gen2 smooth replacement lens
- **STXDS22LC –** 2'x2' SofTrace Gen2 with controls smooth replacement lens
- **STXD22L –** 2'x2' SofTrace Gen2 ribbed replacement lens
- **STXD22LC –** 2'x2' SofTrace Gen2 with controls ribbed replacement lens

SWZCS accessories (order separately)

- **IRT9015 –** handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search

interact ready.

2STX SofTrace recessed 2x2

up to 4500 lumens

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complementany 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.
- AccuRender 90 CRI source provides preferred color quality.
- 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).

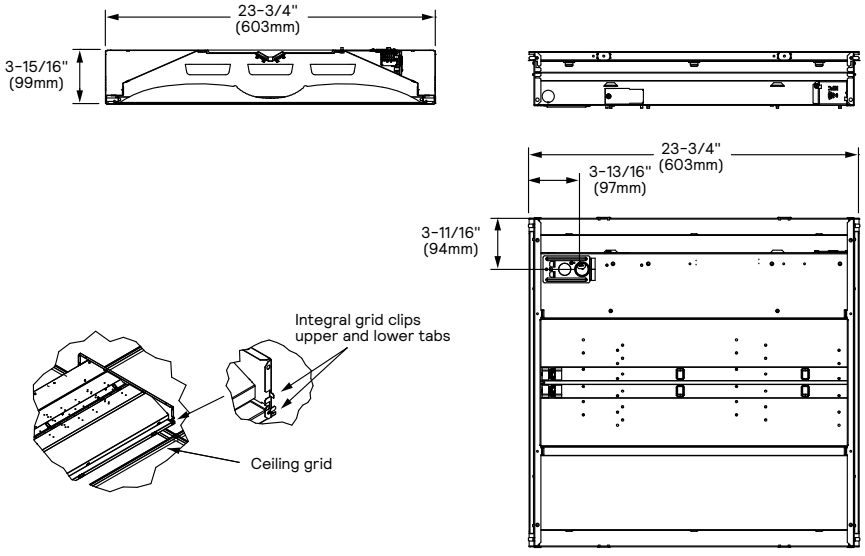
Construction/Finish

- 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
2STXG38B835	3500K/80	3953	34	116	Standard
2STXG38B840	4000K/80	3974	34	116	Standard
2STXG30L835	3500K/80	3019	26	114	Standard
2STXG30L840	4000K/80	3026	26	114	Standard
2STXG30LH835	3500K/80	2994	24	124	Standard
2STXG30LH840	4000K/80	3067	24	127	Premium
2STXG38L835	3500K/80	3838	34	113	Standard
2STXG38L840	4000K/80	3846	34	125	Standard
2STXG38LH835	3500K/80	3750	30	128	Premium
2STXG38LH840	4000K/80	3840	30	130	Premium
2STXG45L835	3500K/80	4538	42	109	Standard
2STXG45L840	4000K/80	4566	42	110	Standard
2STXG45LH835	3500K/80	4557	36	126	Premium
2STXG45LH840	4000K/80	4652	36	129	Premium

Dimensions



- Suitable for end to end continuous row mounting. 1" gap between luminaires requires chase nipple to accommodate through wiring (by others).
- Sheetmetal componets are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance basked 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 87,000 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
- When ordered with -WL option code, suitable for use in wet locations with covered ceilings
- 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 2x2

up to 4500 lumens

Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking 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 http://registration.componentcloud.philips.com/appregistration/
- 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

Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

SofTrace shown with integral sensor

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS and an evolution of SpaceWise)

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.

Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with SWS200 wireless scene switch and Interact Ready wireless battery powered sensors..
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, 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 software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- 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, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

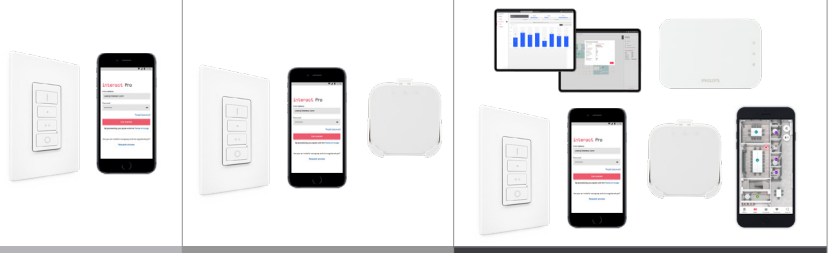
Energy Data (PoE)

Configuration	Nominal CCT/CRI	Flux (lm)	DC Power (W)*	Efficacy (LPW)
2STXG30L840	4000K/80	3067	24	126
2STXG38L840	4000K/80	3902	32	122
2STXG45L840	4000K/80	4634	39	118

*DC power supply

2STX SofTrace recessed 2x2

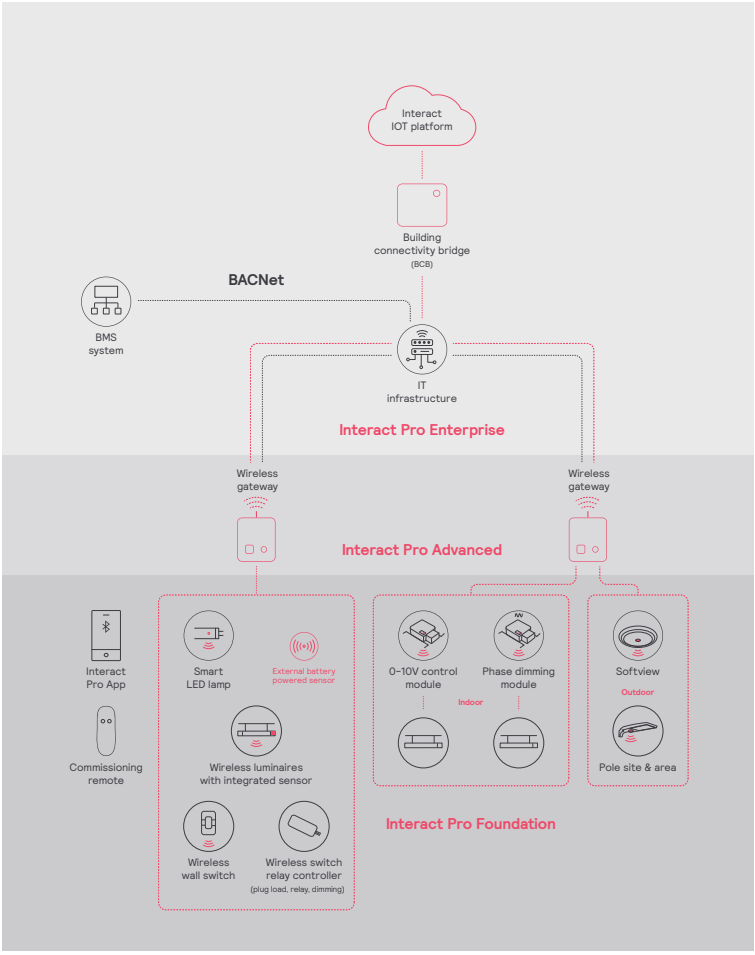
up to 4500 lumens

	Interact Pro scalable system		
			
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16



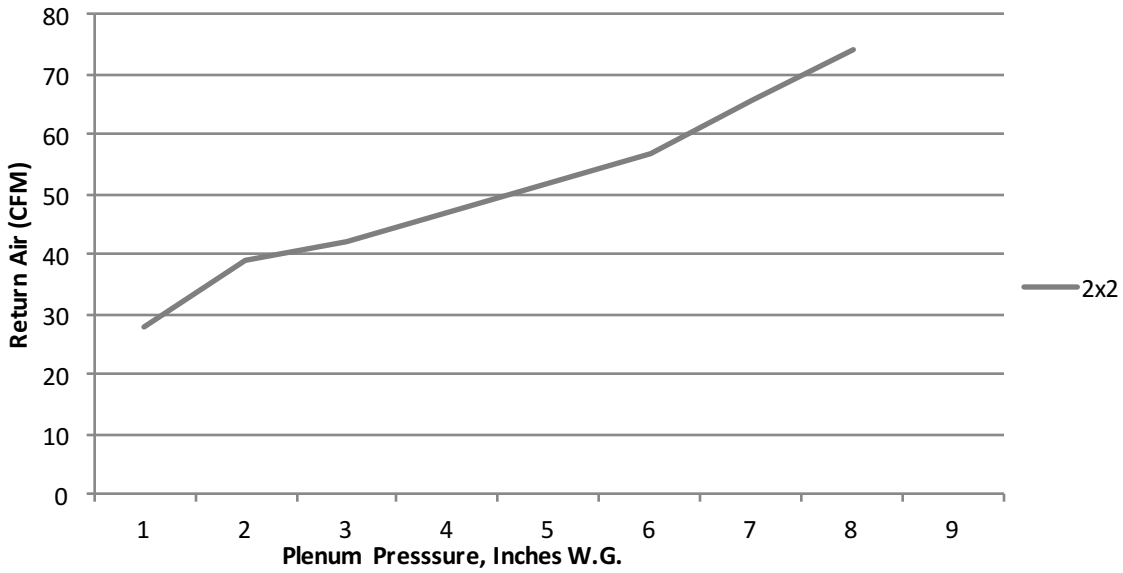
2STX SofTrace recessed 2x2

up to 4500 lumens

Air return

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

Return Air Data



	2x2 Return Air – noise criteria							
CFM	28	39	42	47	52	57	65.5	74
NC (dB)	<15	26	31	33	38	42	44	46

Photometry

2x2 SofTrace recessed LED, base configuration, 3800 nominal delivered lumens — **LER – 115**

Catalog No.	2STXG38B840-2-D-UNV-DIM
Test No.	40559
S/MH	1.3
Lamp Type	LED
Lumens	3971
Input Watts	34

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.

Candlepower

Angle	End	45	Cross	Back-45
0	1398	1398	1398	1398
5	1382	1392	1397	1392
15	1326	1340	1351	1340
25	1217	1238	1255	1238
35	1065	1093	1118	1093
45	884	915	943	915
55	691	713	742	713
65	452	509	529	509
75	234	274	302	274
85	66	82	76	82

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1080	27.2
0-40	1763	44.4
0-60	3108	78.2
0-90	3972	100.0
0-180	3972	100.0

Average Luminance

Zone	End	45°	Cross
45	4106	4251	4380
55	3961	4085	4248
65	3517	3958	4115
75	2972	3473	3838
85	2477	3103	2876

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	109	104	98	106	101	96	96	93
2	98	90	82	95	88	81	84	79
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	59	66	58
5	76	63	53	72	60	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30

2STX SofTrace recessed 2x2

up to 4500 lumens

2x2 SofTrace recessed LED, standard configuration, 3800 nominal delivered lumens — LER – 112

Catalog No. 2STXG38L840-2-D-UNV-DIM
Test No. 40553
S/MH 1.3
Lamp Type LED
Lumens 3846
Input Watts 34

Comparative yearly lighting energy cost per 1000 lumens – **$2.14** 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	1362	1362	1362	1362
5	1347	1356	1362	1356
15	1292	1305	1316	1305
25	1185	1205	1223	1205
35	1036	1064	1087	1064
45	861	890	917	890
55	674	693	721	693
65	425	462	479	462
75	227	265	294	265
85	63	84	76	84

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1051	27.3
0-40	1716	44.6
0-60	3025	78.6
0-90	3846	100.0
0-180	3847	100.0

Average Luminance

Zone	End	45°	Cross
45	3999	4135	4259
55	3859	3971	4129
65	3303	3589	3726
75	2880	3365	3727
85	2383	3159	2876

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	109	104	98	106	101	96	96	93
2	98	90	82	95	88	81	84	79
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	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	30	38	30

2x2 SofTrace recessed LED, high efficacy configuration, 3800 nominal delivered lumens — LER – 128

Catalog No. 2STXG38LH840-2-D-UNV-DIM
Test No. 40572
S/MH 1.3
Lamp Type LED
Lumens 3840
Input Watts 30

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	1363	1363	1363	1363
5	1348	1358	1363	1358
15	1293	1307	1317	1307
25	1186	1206	1223	1206
35	1039	1066	1089	1066
45	862	891	917	891
55	663	694	721	694
65	425	454	479	454
75	223	265	294	265
85	62	79	76	79

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1053	27.4
0-40	1719	44.8
0-60	3025-	78.8
0-90	3840	100.0
0-180	3841	100.0

Average Luminance

Zone	End	45°	Cross
45	4003	4141	4263
55	3796	3976	4128
65	3305	3529	3725
75	2832	3359	3728
85	2326	2993	2873

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	109	104	98	106	101	96	96	93
2	98	90	82	95	88	81	84	79
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	56	46	54	46
7	65	51	41	63	50	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	30	38	30

Signify North America Corporation
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008