

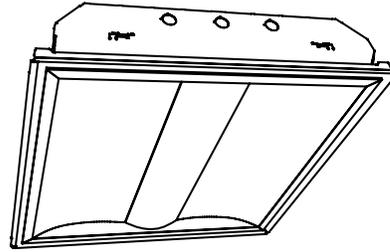
Day-Brite CFI

by @ignify

Recessed

SofTrace Air LED 2x2

2400, 3000, 3400,
3800 or 4400lm



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

Day-Brite / CFI SofTrace recessed LED 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 delivers leading edge performance for the most environmentally conscious user.

Ordering guide

Example: 2STGA24L840-2-D-UNV-DIM

Width	Family	Ceiling Type	Air Function	Lumen Package ¹	Color Temp.	Length	Center Diffuser	Voltage	Driver	Options
2	ST				—	2	—	—	—	
2 2'	ST Softrace	G Grid F Flange Z Z Spline / Modular T Screw Slot	A Air Supply/ Return S Static (Reveal w/o air slots)	24L 2400 nominal delivered lumens 30L 3000 nominal delivered lumens 34L 3400 nominal delivered lumens 38L 3800 nominal delivered lumens 44L 4400 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (ribbed) DS Diffuse (smooth) PMW Round perf w/ white overlay	UNV Universal voltage 120-277V 347 347V	DIM 0-10V dimming Step dimming to 40% input power 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/SW 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires GLR Fusing, fast blow WR White reveal PAF Housing painted after fabrication EMLED Integral emergency battery pack, 1100lm nominal (ballast enclosure on top of luminaire)

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)

- **FKDP22** Flange conversion kit 2'X2'
- **FMA22** 2'x2' "F" mounting frame for NEMA "F" mounting

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x2	2STGA24L840	20.6	116
	2STGA30L840	26.3	115
	2STGA34L840	29.7	114
	2STGA38L840	34.2	113



2ST SofTrace Air LED 2X2

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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.
- Outstanding visual comfort, ideal for modern offices, schools and retail environments.
- Lumen packages range from 2,400 to 4,400 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.
- Grid, Flange, Z-spline/ Modular or Screw Slot models available.
- Designed for air supply/return through side slots in black reveal. See sheet SofTrace_LED_2x4 for air flow data.

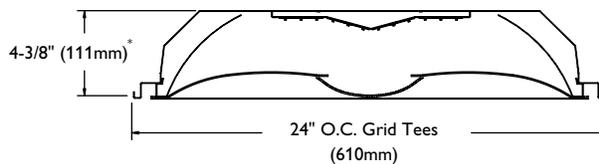
Construction/Finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is available.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- End K.O.s for thru wiring or conduit entry in shallow plenums.
- 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.

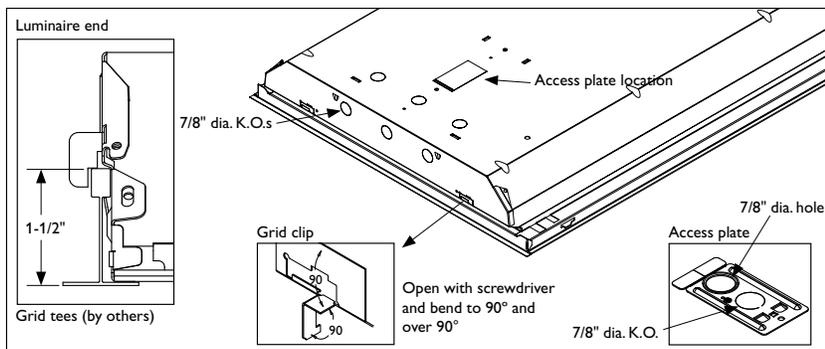
Electrical

- Driver and LED boards are easily accessible from below without tools. LED boards are individually replaceable, if required, via plug-in connectors.
- 0-10V dimming is available for 3,000 lumen or 4,400 lumen models.
- Available emergency option provides 1100 delivered lumens in emergency mode (requires ballast enclosure on top of luminaire).
- 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.

Dimensions



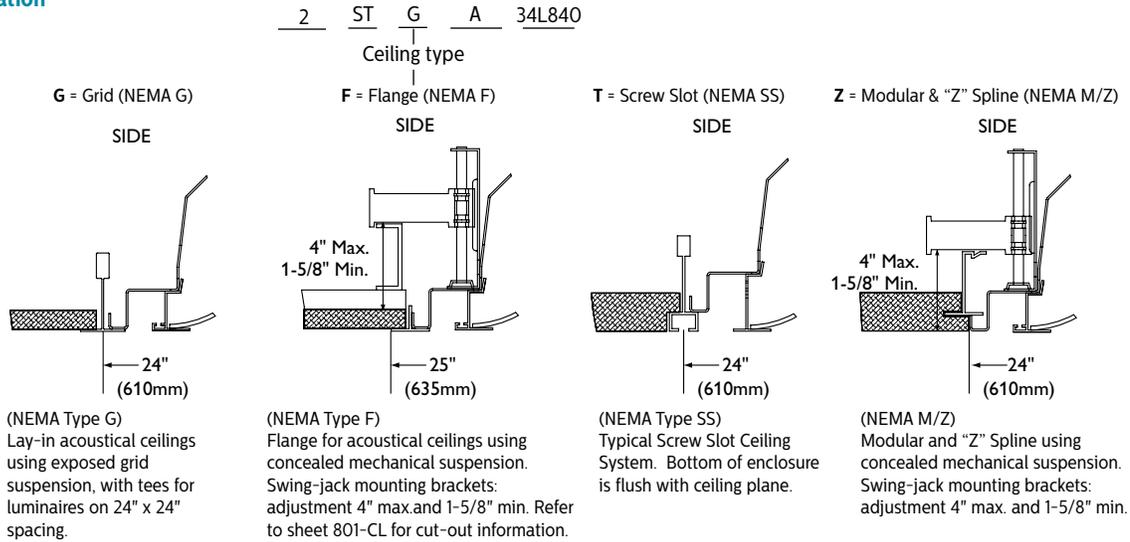
* EMLED is 1-3/4" (45mm) deeper



2ST SofTrace Air LED 2X2

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Ceiling configuration



2x2 SofTrace Air LED, 2400 nominal delivered lumens, diffuse

LER – 116

Catalog No.	2STGA24L840-2-D-UNV-DIM
Test No.	35380
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	2393
Input Watts	20.6
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	859	859	859	859
5	851	856	860	856
15	816	829	840	829
25	741	766	790	766
35	639	675	711	675
45	517	558	595	558
55	387	424	453	424
65	254	286	311	286
75	128	159	182	159
85	30	46	45	46

Light Distribution

Degrees	Lumens	% Luminaire
0-30	668	27.9
0-40	1090	45.6
0-60	1897	79.3
0-90	2393	100.0

Average Luminance

Angle	End	45°	Cross
45	2404	2593	2763
55	2219	2426	2597
65	1978	2224	2415
75	1625	2022	2310
85	1131	1715	1681

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%		
	70	50	30	70	50	30	50	30	
Wall (pw)	Zonal cavity method - Effective floor reflectance = 20%								
RCR	Zonal cavity method - Effective floor reflectance = 20%								
Room Cavity Ratio	0	118	118	118	115	115	115	111	111
	1	109	104	100	106	102	97	96	93
	2	98	91	83	95	89	81	84	80
	3	90	80	70	88	78	69	75	68
	4	82	70	61	80	68	60	67	59
	5	76	63	54	73	61	54	59	52
	6	69	56	47	68	56	46	54	46
	7	65	52	42	63	51	41	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

2x2 SofTrace Air LED, 3000 nominal delivered lumens, diffuse

LER – 115

Catalog No.	2STGA30L840-2-D-UNV-DIM
Test No.	35381
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	3049
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	1094	1094	1094	1094
5	1084	1090	1096	1090
15	1039	1057	1071	1057
25	945	976	1007	976
35	814	860	906	860
45	660	712	758	712
55	494	541	578	541
65	325	366	397	366
75	164	204	233	204
85	38	57	57	57

Light Distribution

Degrees	Lumens	% Luminaire
0-30	851	27.9
0-40	1389	45.6
0-60	2418	79.3
0-90	3049	100.0

Average Luminance

Angle	End	45°	Cross
45	3066	3308	3524
55	2827	3098	3312
65	2525	2842	3083
75	2079	2583	2954
85	1444	2156	2153

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%		
	70	50	30	70	50	30	50	30	
Wall (pw)	Zonal cavity method - Effective floor reflectance = 20%								
RCR	Zonal cavity method - Effective floor reflectance = 20%								
Room Cavity Ratio	0	118	118	118	115	115	115	111	111
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	4	82	70	61	80	68	60	67	59
	5	76	63	54	73	61	54	59	52
	6	69	56	47	68	56	46	54	46
	7	65	52	42	63	51	41	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 Air LED 2X2

2400, 3000, 3400, 3800, or 4400lm

2x2 SofTrace Air LED, 3400 nominal delivered lumens, diffuse

Catalog No.	2STGA34L840-2-D-UNV-DIM	Candela distribution				Light Distribution			Average Luminance				
Test No.	35382	Vertical Angle	Horizontal Angle				Degrees	Lumens % Luminaire		Angle	End	45°	Cross
S/MH	1.3	0°	45°	90°	-45°	0-30	953	27.9	45	3431	3709	3941	
Lamp Type	LED	5	1213	1220	1226	0-40	1555	45.5	55	3167	3474	3707	
Lumens/Lamp	3415	15	1163	1183	1198	0-60	2707	79.3	65	2821	3184	3446	
Input Watts	29.7	25	1056	1093	1127	0-90	3415	100.0	75	2314	2901	3293	
		35	910	964	1013				85	1595	2401	2367	
		45	739	798	848								
		55	553	606	647								
		65	363	410	443								
		75	182	229	259								
		85	42	64	63								

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%								
Room Cavity Ratio	0	118	118	118	115	115	115	111	111
	1	109	104	100	106	102	97	96	93
	2	98	91	83	95	89	81	84	80
	3	90	80	70	88	78	69	75	68
	4	82	70	61	80	68	60	67	59
	5	76	63	54	73	61	54	59	52
	6	69	56	47	68	56	46	54	46
	7	65	52	42	63	51	41	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

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.

2x2 SofTrace Air LED, 3800 nominal delivered lumens, diffuse

Catalog No.	2STGA38L840-2-D-UNV-DIM	Candela distribution				Light Distribution			Average Luminance				
Test No.	35383	Vertical Angle	Horizontal Angle				Degrees	Lumens % Luminaire		Angle	End	45°	Cross
S/MH	1.3	0°	45°	90°	-45°	0-30	1083	27.9	45	3902	4209	4476	
Lamp Type	LED	5	1379	1387	1394	0-40	1767	45.5	55	3600	3941	4209	
Lumens/Lamp	3879	15	1322	1344	1362	0-60	3075	79.3	65	3204	3606	3910	
Input Watts	34.2	25	1201	1242	1281	0-90	3879	100.0	75	2625	3282	3745	
		35	1035	1094	1151				85	1821	2695	2673	
		45	840	906	963								
		55	629	688	735								
		65	412	464	503								
		75	207	259	295								
		85	48	72	71								

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%								
Room Cavity Ratio	0	118	118	118	115	115	115	111	111
	1	109	104	100	106	102	97	96	93
	2	98	91	83	95	89	81	84	80
	3	90	80	70	88	78	69	75	68
	4	82	70	61	80	68	60	67	59
	5	76	63	54	73	61	54	59	52
	6	69	56	47	68	56	46	54	46
	7	65	52	42	63	51	41	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

Comparative yearly lighting energy cost per 1000 lumens – **\$2.12** 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.

