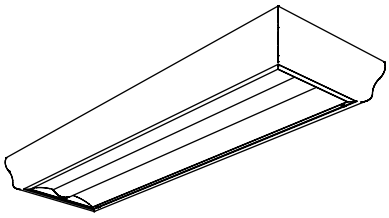
Day-Brite CFI by signify

Surface

SofTrace 1x4

T5, T5HO, or T8



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The 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: 1SST132-D-UNV-1/1-EBHHE-LPT835HL

Width	Family	No. of Lamps (not included)	Lamp Type	Center Diffusers	Voltage	Ballast Configuration	Ballast Type	Options
1	SST		–	–	–	–	–	
1 1'	**SST** SofTrace surface	**1** **2** (28WT5 only)	**28** 28WT5 (46") **32** 32WT8 (48") **54HO** 54WT5HO (46")	**D** Diffuse (Ribbed) **PMW** Round perf w/ white overlay	**120** **277** **347** **UNV** Universal Voltage 120-277V	**1/1** One 1 lamp ballast **1/2** One 2 lamp ballast	**EB95** T5 electronic ballast, .95 ballast factor **EB115** T5 electronic ballast, 1.15 ballast factor **EBSD95** T5 electronic step dimming ballast, .95 ballast factor (2 lamp only) **EBSD115** T5 electronic step dimming ballast, 1.15 ballast factor **EBSD** T8 electronic step dimming ballast,.88 ballast factor **EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control **EBDX** Advance Mark 10 dimming ballast, phase control **EBD** Electronic dimming ballast, customer specified **EB** Electronic ballast, < 10% THD std. ballast factor **EB10R** T8 electronic ballast, <10% THD, program rapid start **EBHE** T8 electronic ballast, high efficiency std. ballast factor **EBLHE** T8 electronic ballast, high efficiency low ballast factor **EBHHE** T8 electronic ballast, high efficiency high ballast factor	**CC** Custom Color **E7LP** LP550 emerg. ballast, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast, U.S. or Canada market, 750-1325 lumens, 120/277V **GLR** Fusing, fast blow

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Application

- Highly efficient, highly flexible surface mounted luminaire with an upscale architectural appearance.
- Soft, contoured housing shape provides modern architectural detail and complements the enclosure design without dominating the room.
- 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.
- Excellent optical efficiency and luminaire efficacy provide significant energy savings.
- Many ballast/lamp systems are available, providing flexibility to tailor the luminaire to specific applications.
- Step dimming ballasts can be switched to less than 50% input power for energy savings to meet most energy codes while maintaining symmetrical illumination.

Construction/Finish

- Extruded aluminum external construction provides accurate, high quality fit and finish.
- Wireway cover is easily removable without tools for quick ballast or wiring access from below.

Electrical

- cULus listed for damp locations.
- Emergency ballasts can be incorporated.
- Systems are available offering electrical system efficacy ratings up to 100 Lumens/Watt.
- Total luminaire efficacy as high as 82 LPW.

Enclosure

- Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended “baskets.”
- One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below without tools.
- T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Choice of center sections includes diffuse acrylic or round perforated steel with overlay.

Energy Data

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
1 Lamp 28	EB	33W / 33W	91	**96**
	EBSD115@hi	38W / 38W	88	92
	EBSD115@lo	19W / 19W	66	69
1 Lamp 32	EB	31W / 31W	79	88
	EB10R	31W / 30W	79	88
	EBHE	28W / 28W	86	96
	EBLHE	25W / 25W	88	95
	EBHHE	39W / 38W	86	94
	EBSD@hi	29W / 29W	85	94
	EBSD@lo	14W / 14W	60	66
1 Lamp 54HO	EB	63W / 62W	82	–
2 Lamp 28	EB95	60W / 58W	95	**100**
	EBSD95@hi	60W / 58W	95	100
	EBSD95@lo	28W / 28W	73	74
	EB115	72W / 71W	94	99
	EBSD115@hi	72W / 71W	94	99
	EBSD115@lo	35W / 35W	80	78
	EB	66W / 64W	94	99

The photometric test results are the same for the smooth or ribbed center and smooth or ribbed sides.

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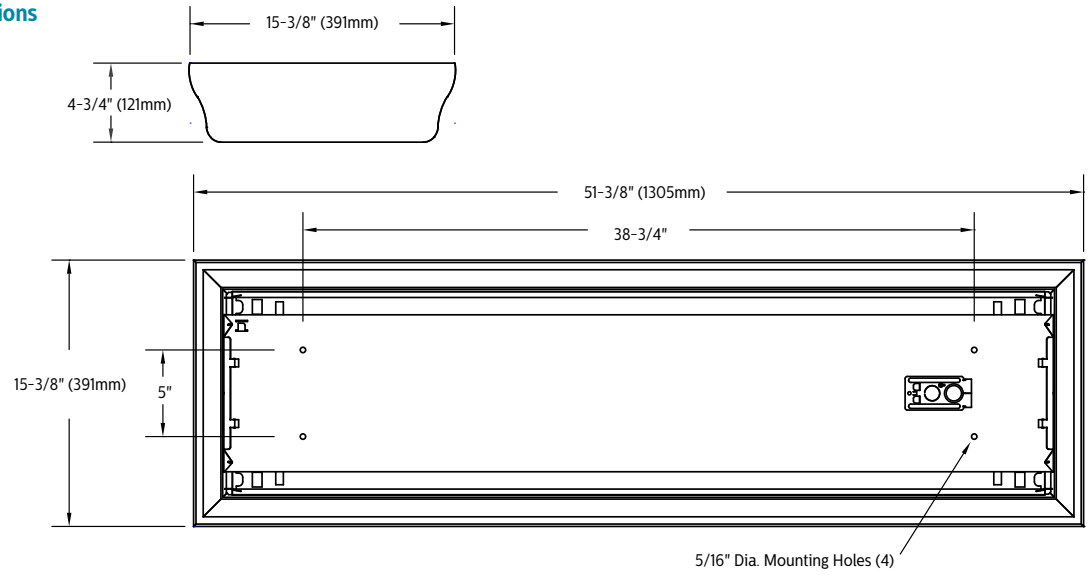
Dimensions



SofTrace surface 1x4 1 Lamp T8 Diffuse — Efficiency – 80.5% — LER – 55 — TER – 47

Catalog No.	1SST132-D-1/1-EB
Test No.	27095D2
S/MH	1.2
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	0.88
Input Watts	37

Comparative yearly lighting energy cost per 1000 lumens – **$4.36** 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.

Candlepower

Angle	End	45	Cross
0	875	875	875
5	874	871	865
10	861	853	841
15	841	825	810
20	811	789	775
25	774	748	737
30	727	701	702
35	673	654	667
40	611	602	623
45	543	547	570
50	472	486	504
55	399	414	430
60	323	340	348
65	248	265	267
70	182	195	192
75	121	132	123
80	69	73	63
85	30	28	23

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	662	23.2	28.8
0-40	1076	37.7	46.9
0-60	1869	65.6	81.5
0-90	2293	80.5	100.0

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	95	95	95	93	93	93	89	89
1	88	83	81	85	81	79	79	76
2	80	73	68	78	71	67	68	65
3	72	65	57	70	64	57	60	56
4	67	57	51	65	56	50	55	48
5	61	52	44	59	51	44	48	42
6	56	46	39	56	46	39	44	38
7	53	41	34	52	41	34	40	34
8	48	39	32	47	38	32	36	30
9	46	34	28	45	34	28	34	28
10	42	33	26	41	32	26	30	26

SofTrace surface 1x4 1 Lamp T5 Diffuse — Efficiency – 93.0% — LER – 71 — TER – 62

Catalog No.	1SST128-D-1/1-EB
Test No.	27091D2
S/MH	1.2
Lamp Type	F28T5
Lumens/Lamp	2600
Ballast Factor	1.00
Input Watts	34

Comparative yearly lighting energy cost per 1000 lumens – **$3.38** 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.

Candlepower

Angle	End	45	Cross
0	936	936	936
5	928	927	924
10	917	911	902
15	897	881	866
20	864	839	821
25	823	794	777
30	772	741	735
35	712	687	696
40	644	631	654
45	572	572	602
50	495	508	535
55	415	435	457
60	334	359	373
65	257	278	286
70	188	206	207
75	123	138	131
80	71	76	66
85	30	28	25

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	703	27.0	29.1
0-40	1138	43.8	47.1
0-60	1971	75.8	81.5
0-90	2418	93.0	100.0

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	111	111	111	108	108	108	103	103
1	102	96	93	98	94	92	91	88
2	93	84	79	90	82	78	80	75
3	84	75	68	81	73	67	70	65
4	78	67	58	75	65	57	63	56
5	70	59	51	68	58	51	56	50
6	66	54	46	64	53	45	51	44
7	60	48	40	59	47	40	46	40
8	56	45	36	56	44	36	42	35
9	53	40	33	52	40	33	39	33
10	50	38	30	48	36	29	35	29

1SST SofTrace surface 1x4

T5, T5HO, or T8

SofTrace surface 1x4 2 Lamp T5 Diffuse — Efficiency – 81.9% — LER – 71 — TER – 62

Catalog No.	1SST228-D-1/2-EB
Test No.	27104D2
S/MH	1.3
Lamp Type	F28T5
Lumens/Lamp	2600
Ballast Factor	1.00
Input Watts	60

Comparative yearly lighting energy cost per 1000 lumens – **$3.38** 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.

Candlepower

Angle	End	45	Cross
0	1552	1552	1552
5	1545	1550	1533
10	1526	1533	1518
15	1490	1498	1491
20	1438	1457	1458
25	1374	1401	1417
30	1296	1334	1366
35	1199	1257	1295
40	1091	1163	1197
45	970	1047	1073
50	843	916	935
55	710	779	781
60	577	631	631
65	445	490	487
70	323	360	355
75	217	242	227
80	125	139	120
85	53	52	48

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1214	23.3	28.5
0-40	1996	38.4	46.9
0-60	3473	66.8	81.6
0-90	4257	81.9	100.0

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	96	96	96	94	94	94	91	91
1	89	85	81	86	83	81	80	78
2	81	75	69	79	72	68	70	66
3	73	66	58	71	65	58	61	56
4	68	58	52	66	57	51	55	50
5	63	52	45	60	51	45	50	44
6	57	46	40	56	46	40	45	39
7	54	42	35	52	41	34	40	34
8	50	39	32	48	39	32	36	30
9	46	35	28	46	34	28	34	28
10	44	33	27	42	33	27	32	26

SofTrace surface 1x4 1 Lamp T8 — Efficiency – 72.1% — LER – 49 — TER – 43

Catalog No.	1SST132-PMW-1/1-EB
Test No.	27096D2
S/MH	1.4
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.88
Input Watts	37

Comparative yearly lighting energy cost per 1000 lumens – **$4.90** 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.

Candlepower

Angle	End	45	Cross
0	697	697	697
5	696	696	692
10	686	689	689
15	671	678	683
20	649	663	677
25	622	645	670
30	589	623	658
35	551	595	639
40	505	560	606
45	456	516	557
50	400	460	495
55	341	396	421
60	277	323	345
65	216	252	265
70	158	183	187
75	104	118	105
80	61	56	48
85	26	18	17

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	556	19.5	27.0
0-40	928	32.6	45.1
0-60	1667	58.5	81.1
0-90	2055	72.1	100.0

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	85	85	85	83	83	83	80	80
1	79	75	71	77	73	70	70	68
2	71	66	60	69	64	59	61	57
3	65	57	52	64	56	51	55	50
4	59	51	45	57	50	44	47	42
5	55	46	39	53	45	39	42	38
6	51	40	34	48	40	34	39	34
7	46	36	30	46	36	30	34	29
8	44	34	28	42	33	28	32	27
9	40	30	25	40	30	25	29	25
10	38	28	23	36	28	23	28	22

1SST SofTrace surface 1x4

T5, T5HO, or T8

SofTrace surface 1x4 1 Lamp T5

Efficiency – 82.3% **LER – 63** **TER – 54**

Catalog No.	1SST128-PMW-1/1-EB
Test No.	27090D2
S/MH	1.4
Lamp Type	F28T5
Lumens/Lamp	2600
Ballast Factor	1.00
Input Watts	34

Comparative yearly lighting energy cost per 1000 lumens – **$3.81** 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.

Candlepower

Angle	End	45	Cross
0	9711	711	711
5	711	710	707
10	701	704	705
15	684	694	702
20	662	680	697
25	634	663	691
30	601	641	682
35	558	613	664
40	516	583	639
45	463	537	594
50	410	484	532
55	349	418	456
60	284	343	374
65	222	270	287
70	164	195	203
75	109	127	114
80	63	61	49
85	26	19	17

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	569	21.9	26.6
0-40	953	36.7	44.5
0-60	1728	66.5	80.8
0-90	2140	82.3	100.0

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	97	97	97	95	95	95	91	91
1	90	85	82	88	83	81	81	78
2	81	75	68	80	72	68	70	66
3	73	66	58	71	65	57	61	56
4	68	57	51	66	56	50	55	48
5	63	52	45	60	51	44	48	42
6	57	46	39	56	46	39	44	38
7	53	41	34	52	41	34	40	34
8	50	38	30	47	38	30	36	30
9	46	34	28	45	34	28	34	28
10	42	32	26	41	32	26	30	25

SofTrace surface 1x4 2 Lamp T5

Efficiency – 76.0% **LER – 63** **TER – 55**

Catalog No.	1SST228-PMW-1/2-EB
Test No.	271011D2
S/MH	1.4
Lamp Type	F28T5
Lumens/Lamp	2600
Ballast Factor	1.00
Input Watts	63

Comparative yearly lighting energy cost per 1000 lumens – **$3.81** 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.

Candlepower

Angle	End	45	Cross
0	1309	1309	1309
5	1307	1314	1302
10	1287	1306	1309
15	1258	1296	1316
20	1217	1278	1318
25	1166	1253	1313
30	1103	1218	1290
35	1032	1166	1244
40	944	1092	1169
45	851	998	1068
50	744	885	960
55	634	760	825
60	516	634	677
65	399	503	509
70	294	363	347
75	196	227	195
80	111	103	84
85	47	31	29

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1065	20.5	26.9
0-40	1785	34.3	45.1
0-60	3206	61.6	81.1
0-90	3953	76.0	100.0

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	91	91	91	88	88	88	83	83
1	82	79	76	81	78	75	75	71
2	76	68	64	73	68	63	65	60
3	68	60	55	67	59	54	56	53
4	63	54	46	60	53	46	51	46
5	57	47	40	56	46	40	46	40
6	53	42	35	52	42	35	40	34
7	48	39	32	47	39	32	36	32
8	46	35	28	45	34	28	34	28
9	42	33	26	41	32	26	30	26
10	40	29	23	39	29	23	28	23

Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

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