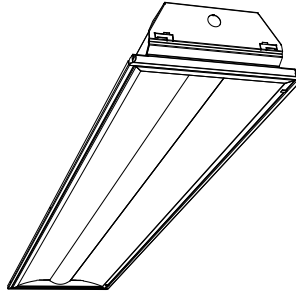


**PHILIPS**  
**Day-Brite**  
**CFI**

Recessed

SofTrace 1x4

T5, T5HO, or T8



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

The Philips Day-Brite / Philips CFI SofTrace recessed 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: 1STG132-D-UNV-1/1-EBHHE-LPT835HL**

Width	Family	Ceiling Type	No. of Lamps (not included)	Lamp Type	Diffusers	Voltage	Ballast Configuration	Ballast Type	Options
1	ST								
1 1'	ST Softrace	G Grid F Flange Z Spline / Modular	1 (28WT5 only) 2 (32WT8 only)	28 28WT5 (46") 32 32WT8 (48") 54HO 54WT5HO (46")	D Diffuse (Ribbed) PMW Round perf w/ white overlay	120 120V 277 277V 347 347V 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 EBS095 T5 electronic step dimming ballast, .95 ballast factor (2 lamp only) EBS0115 T5 electronic step dimming ballast, 1.15 ballast factor EB Electronic ballast, < 10% THD std. ballast factor EB10R T8 electronic ballast, <10% THD, program rapid start EBS0 T8 electronic step dimming ballast, .88 ballast factor 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 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	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F2/5W 3/8" flex, 5 wire 18 gauge 6' E1 B100 emerg. ballast, T8, 350-450 lumens, 120/277V E1CAN B100-CAN emerg. ballast, Canada market, T8 350-450 lumens, 120/347V E7 B60 emerg. ballast, T8, 600-700 lumens, 120/277V E5 B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV E5CAN B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V E5ST B50ST emerg. ballast w/self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV E7LP LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V E6LP LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V GLR Fusing, fast blow LPT830HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3000K LPT835HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K LPT841HL Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K LPT830 Installed T8/T5/T5HO lamps, 80+ CRI, 3000K LPT835 Installed T8/T5/T5HO lamps, 80+ CRI, 3500K LPT841 Installed T8/T5/T5HO lamps, 80+ CRI, 4100K PAF Housing painted after fabrication CHIC Chicago plenum rated Suitable for Type-IC (insulated ceiling)

**Accessories (order separately)**

- **FMA14** 1'x4' "F" mounting frame for NEMA "F" mounting



# 1ST SofTrace recessed 1x4

T5, T5HO, or T8

## 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 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.
- Specific models are available for Grid, Flange, Z-spline/ Modular, or Screw Slot ceiling systems.

## Construction/Finish

- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.

## 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 EBSD115@hi (@lo)	33W / 33W 38W / 38W (19W/ 19W)	91	96
			88 (66)	92 (69)
1 Lamp 32	EB EB10R EBLHE EBHHE EBSD@hi (@lo)	31W / 31W 31W / 30W 29W / 29W 41W / 41W 29W / 29W (14W / 14W)	79	88
			79	88
			87	96
			82	91
			85 (60)	94 (66)
1 Lamp 54HO	EB	63W / 62 W	82	-
2 Lamp 28	EB95 EBSD95@hi (@lo) EB115 EBSD115@hi (@lo) EB	60W / 58W 60W / 58W (28W / 28W) 72W / 71W 72W / 71W (35W / 35W) 66W / 64W	95	100
			95 (73)	100 (74)
			94	99
			94 (80)	99 (78)
			94	99

\*Standard Lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy savings lamps are also available.

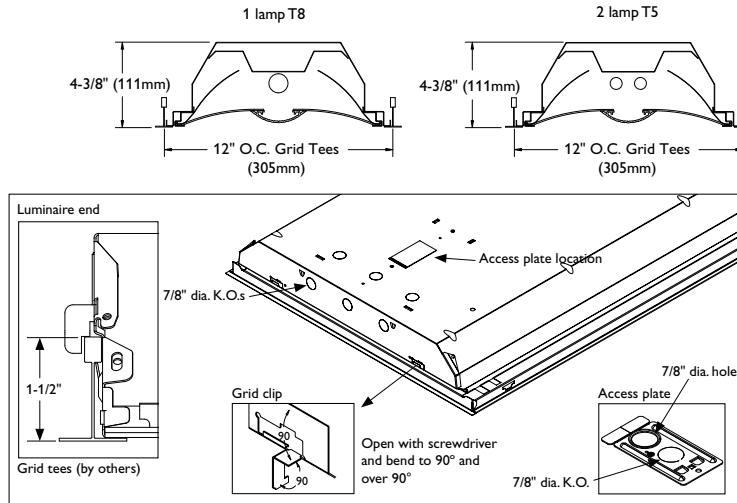


Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, “Contain Mercury” and/or the symbol “HG”. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and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

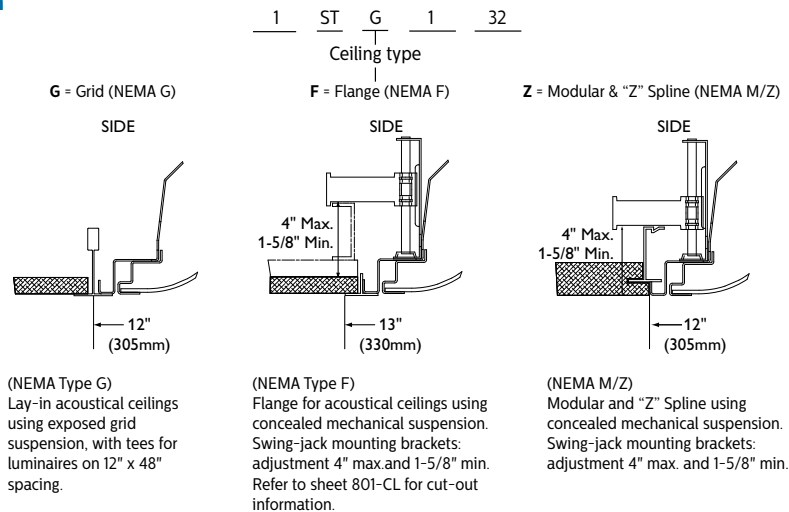
# 1ST SofTrace recessed 1x4

T5, T5HO, or T8

## Dimensions



## Ceiling configuration



## Photometry

### ST 1x4 1 Lamp T8 Diffuse

Efficiency – 80.5%

LER – 55

TER – 47

Catalog No.	1STG132-D-1/1-EB	Candlepower				Light Distribution			
		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
Test No.	27095	0	875	875	875	0-30	662	23.2	28.8
S/MH	1.2	5	874	871	865	0-40	1076	37.7	46.9
Lamp Type	F32T8	10	861	853	841	0-60	1869	65.6	81.5
Lumens/Lamp	2850	15	841	825	810	0-90	2293	80.5	100.0
Ballast Factor	0.88	20	811	789	775				
Input Watts	37	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				
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 Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.									
						Coefficients of Utilization			
						EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)			
						pcc			
						pw			
						RCR			
						0			
						1			
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			

# 1ST SofTrace recessed 1x4

T5, T5HO, or T8

ST 1x4 1 Lamp T5 Diffuse		Efficiency – 93.0%				LER – 71	TER – 62							
<b>Catalog No.</b>	1STG128-D-1/1-EB	<b>Candlepower</b>				<b>Light Distribution</b>								
<b>Test No.</b>	27091	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Lamp</b>	<b>% Luminaire</b>					
<b>S/MH</b>	1.2	0	936	936	936	0-30	703	27.0	29.1					
<b>Lamp Type</b>	F28T5	5	928	927	924	0-40	1138	43.8	47.1					
<b>Lumens/Lamp</b>	2600	10	917	911	902	0-60	1971	75.8	81.5					
<b>Ballast Factor</b>	1.00	15	897	881	866	0-90	2418	93.0	100.0					
<b>Input Watts</b>	34	20	864	839	821	<b>Coefficients of Utilization</b>								
Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.38</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		25	823	794	777	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>								
		30	772	741	735	pcc	80		70		50			
		35	712	687	696	pw	70	50	30	70	50	30		
		40	644	631	654	RCR								
		45	572	572	602	0	111	111	111	108	108	108	103	103
		50	495	508	535	1	102	96	93	98	94	92	91	88
		55	415	435	457	2	93	84	79	90	82	78	80	75
		60	334	359	373	3	84	75	68	81	73	67	70	65
		65	257	278	286	4	78	67	58	75	65	57	63	56
		70	188	206	207	5	70	59	51	68	58	51	56	50
75	123	138	131	6	66	54	46	64	53	45	51	44		
80	71	76	66	7	60	48	40	59	47	40	46	40		
85	30	28	25	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	

ST 1x4 2 Lamp T5 Diffuse		Efficiency – 81.9%				LER – 71	TER – 62							
<b>Catalog No.</b>	1STG228-D-1/2-EB	<b>Candlepower</b>				<b>Light Distribution</b>								
<b>Test No.</b>	27104	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Lamp</b>	<b>% Luminaire</b>					
<b>S/MH</b>	1.3	0	1552	1552	1552	0-30	1214	23.3	28.5					
<b>Lamp Type</b>	F28T5	5	1545	1550	1533	0-40	1996	38.4	46.9					
<b>Lumens/Lamp</b>	2600	10	1526	1533	1518	0-60	3473	66.8	81.6					
<b>Ballast Factor</b>	1.00	15	1490	1498	1491	0-90	4257	81.9	100.0					
<b>Input Watts</b>	60	20	1438	1457	1458	<b>Coefficients of Utilization</b>								
Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.38</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		25	1374	1401	1417	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>								
		30	1296	1334	1366	pcc	80		70		50			
		35	1199	1257	1295	pw	70	50	30	70	50	30		
		40	1091	1163	1197	RCR								
		45	970	1047	1073	0	96	96	96	94	94	94	91	91
		50	843	916	935	1	89	85	81	86	83	81	80	78
		55	710	779	781	2	81	75	69	79	72	68	70	66
		60	577	631	631	3	73	66	58	71	65	58	61	56
		65	445	490	487	4	68	58	52	66	57	51	55	50
		70	323	360	355	5	63	52	45	60	51	45	50	44
75	217	242	227	6	57	46	40	56	46	40	45	39		
80	125	139	120	7	54	42	35	52	41	34	40	34		
85	53	52	48	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	

ST 1x4 1 Lamp T8		Efficiency – 72.1%				LER – 49	TER – 43							
<b>Catalog No.</b>	1STG132-PMW-1/1-EB	<b>Candlepower</b>				<b>Light Distribution</b>								
<b>Test No.</b>	27096	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Lamp</b>	<b>% Luminaire</b>					
<b>S/MH</b>	1.4	0	697	697	697	0-30	556	19.5	27.0					
<b>Lamp Type</b>	F32T8	5	696	696	692	0-40	928	32.6	45.1					
<b>Lumens/Lamp</b>	2850	10	686	689	689	0-60	1667	58.5	81.1					
<b>Ballast Factor</b>	.88	15	671	678	683	0-90	2055	72.1	100.0					
<b>Input Watts</b>	37	20	649	663	677	<b>Coefficients of Utilization</b>								
Comparative yearly lighting energy cost per 1000 lumens – <b>\$4.90</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		25	622	645	670	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>								
		30	589	623	658	pcc	80		70		50			
		35	551	595	639	pw	70	50	30	70	50	30		
		40	505	560	606	RCR								
		45	456	516	557	0	85	85	85	83	83	83	80	80
		50	400	460	495	1	79	75	71	77	73	70	70	68
		55	341	396	421	2	71	66	60	69	64	59	61	57
		60	277	323	345	3	65	57	52	64	56	51	55	50
		65	216	252	265	4	59	51	45	57	50	44	47	42
		70	158	183	187	5	55	46	39	53	45	39	42	38
75	104	118	105	6	51	40	34	48	40	34	39	34		
80	61	56	48	7	46	36	30	46	36	30	34	29		
85	26	18	17	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	

# 1ST SofTrace recessed 1x4

T5, T5HO, or T8

## ST 1x4 1 Lamp T5

Efficiency – 82.3%

LER – 63

TER – 54

<b>Catalog No.</b> 1STG128-PMW-1/1-EB <b>Test No.</b> 27090 <b>S/MH</b> 1.4 <b>Lamp Type</b> F28T5 <b>Lumens/Lamp</b> 2600 <b>Ballast Factor</b> 1.00 <b>Input Watts</b> 34  Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.81</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	<b>Candlepower</b>				<b>Light Distribution</b>				
	<b>Angle</b> 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	<b>End</b> 9711 711 710 704 684 662 634 601 558 516 463 410 349 284 222 164 109 63 26	<b>45</b> 711 710 705 694 680 663 641 613 594 579 532 456 374 287 203 114 49 17	<b>Cross</b> 711 707 705 702 697 691 682 664 639 594 532 456 374 287 203 114 49 17	<b>Degrees</b> 0-30 0-40 0-60 0-90	<b>Lumens</b> 569 953 1728 2140	<b>% Lamp</b> 21.9 36.7 66.5 82.3	<b>% Luminaire</b> 26.6 44.5 80.8 100.0	
<b>Coefficients of Utilization</b>									
<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>									
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	

## ST 1x4 2 Lamp T5

Efficiency – 76.0%

LER – 63

TER – 55

<b>Catalog No.</b> 1STG228-PMW-1/2-EB <b>Test No.</b> 271011 <b>S/MH</b> 1.4 <b>Lamp Type</b> F28T5 <b>Lumens/Lamp</b> 2600 <b>Ballast Factor</b> 1.00 <b>Input Watts</b> 63  Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.81</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	<b>Candlepower</b>				<b>Light Distribution</b>				
	<b>Angle</b> 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	<b>End</b> 1309 1307 1287 1258 1217 1166 1103 1032 944 851 744 634 516 399 294 196 111 47	<b>45</b> 1309 1314 1306 1296 1278 1253 1218 1244 1169 1068 960 825 677 509 347 195 84 29	<b>Cross</b> 1309 1302 1309 1316 1318 1313 1290 1244 1169 1068 960 825 677 509 347 195 84 29	<b>Degrees</b> 0-30 0-40 0-60 0-90	<b>Lumens</b> 1065 1785 3206 3953	<b>% Lamp</b> 20.5 34.3 61.6 76.0	<b>% Luminaire</b> 26.9 45.1 81.1 100.0	
<b>Coefficients of Utilization</b>									
<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>									
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	

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