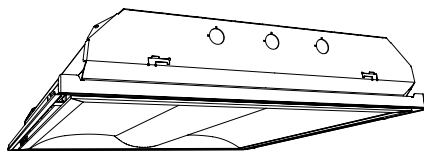


Recessed

SofTrace air 2x2

T5, T5HO, T8 or CFTT5



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

SofTrace 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: 2STGA217-D-UNV-1/2-EBHHE-LPT835HL

Width	Family	Ceiling Type	Air Function	No. of Lamps (not included)	Lamp Type	Center Diffusers	Voltage	Ballast Config.	Ballast Type	Options
2	ST			2	—	—	—	1/2	—	—
2 2'	ST Softrace	G Grid F Flange Z Z Spline / Modular T Screw Slot	A Air supply/ return Static (Reveal but no air slots) S	2	14 14WTS (22") 17 17WT8 (24") 24HO 24WT5HO (22") CF40 40WTT5 (24") CF50 50WTT5 (24") CF55 55WTT5 (24")	D Diffuse (Ribbed) DS Diffuse (Smooth) PMW Round perf w/ white overlay	120 277 347 UNV Universal Voltage 120-277V	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 EBS0115 T5 electronic step dimming ballast, 1.15 ballast factor EBS0 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 EB10I CF40 electronic ballast, <10% THD, Instant start 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	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 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 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 hi lumen lamps, 80+ CRI, 3000K LPT835HL Installed T8 hi lumen lamps, 80+ CRI, 3500K LPT841HL Installed T8 hi lumen lamps, 80+ CRI, 4100K LPT830 Installed CF/T8/T5/T5HO lamps, 80+ CRI, 3000K LPT835 Installed CF/T8/T5/T5HO lamps, 80+ CRI, 3500K LPT841 Installed CF/T8/T5/T5HO lamps, 80+ CRI, 4100K PAF Housing painted after fabrication WR White reveal RIB Ribbed side diffusers

Accessories (order separately)

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

2ST SofTrace air recessed 2x2

T5, T5HO, T8, or CFTT5

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 or 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.
- Grid, Flange, Z-spline/ Modular, or Screw Slot models available.
- Designed for air supply/return through side slots in reveal. See sheet 518-AH 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.
- Wireway cover is easily removable from below without tools.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.

Electrical

- cULus listed for damp locations.
- Emergency ballasts can be incorporated.
- Systems are available offering electrical system efficacy ratings up to 90 Lumens/Watt.
- Total luminaire efficacy as high as 76 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 with smooth or ribbed surface or round perforated steel with overlay.
- Smooth side diffusers standard, ribbed optional.

Energy Data

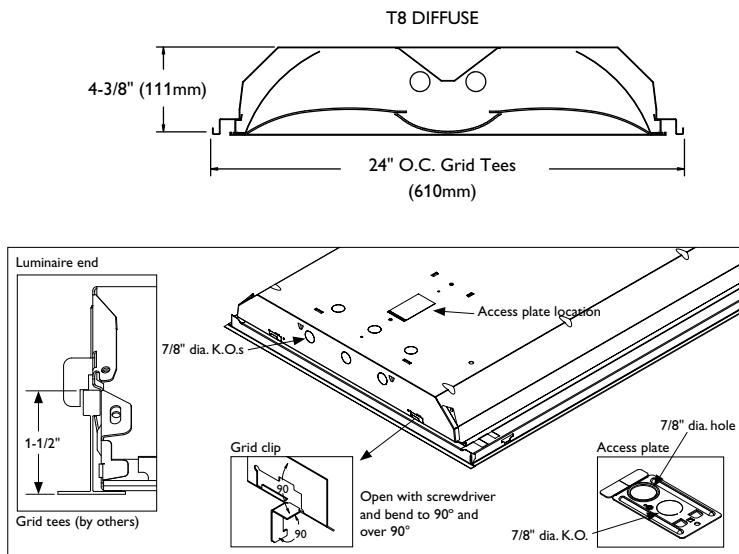
Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
14	EB	34W / 34W	84	—
	EBSD95@hi	35W / 35W	77	—
	EBSD95@lo	16W / 16W	62	—
	EBSD115@hi	38W / 37W	84	—
	EBSD115@lo	18W / 19W	57	—
17	EB	34W / 34W	76	86
	EB10R	34W / 34W	74	84
	EBHE	30W / 30W	80	90
	EBLHE	30W / 30W	76	86
	EBHHE	43W / 43W	78	88
	EBSD@hi	30W / 30W	77	87
	EBSD@lo	16W / 16W	50	57
24HO	EB	53W / 52 W	77	—
CF40	EB	76W / 73W	79	—
CF50	EB	106W / 106W	85	—
CF55	EB	112W / 109W	79	—

*T8 values assume 70+CRI lamp. 80+CRI lamps with increased lumen ratings are also available.

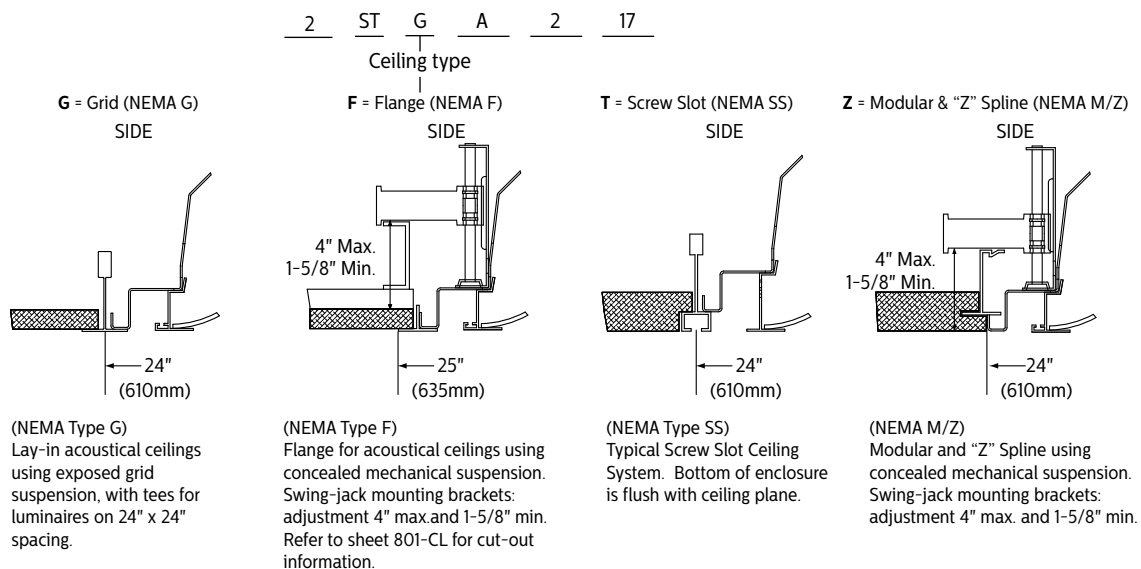
2ST SofTrace air recessed 2x2

T5, T5HO, T8, or CFTT5

Dimensions



Ceiling configuration



2ST SofTrace air recessed 2x2

T5, T5HO, T8, or CFTT5

Photometry

STGA 2x2 2 Lamp T8

Efficiency – 81.7%

LER – 60

TER – 51

		Candlepower				Light Distribution							
Catalog No.	2STGA217-D-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire				
Test No.	27039D1	0	779	779	779	0-30	600	22.6	27.7				
S/MH	1.3	5	773	775	777	0-40	980	37.0	45.3				
Lamp Type	F17T8	10	762	763	765	0-60	1729	65.2	79.8				
Lumens/Lamp	1325	15	743	744	745	0-90	2165	81.7	100.0				
Ballast Factor	0.88	20	718	719	721								
Input Watts	32	25	685	687	693								
Comparative yearly lighting energy cost per 1000 lumens – \$4.00 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.		30	640	648	659								
		35	593	605	629								
		40	537	557	595								
		45	475	508	559								
		50	407	452	516								
		55	339	396	461								
		60	271	330	391								
		65	208	264	317								
		70	150	199	240								
		75	99	136	166								
		80	56	81	89								
		85	23	29	30								
						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	84	81	86	82	80	80	77				
2		81	73	68	79	72	68	69	66				
3		73	65	58	71	64	57	60	56				
4		68	57	51	66	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	40	34	40	34				
8		48	38	30	47	38	30	36	30				
9		46	34	28	45	34	28	34	28				
10		42	33	26	41	32	26	30	26				

STGA 2x2 2 Lamp T5

Efficiency – 88.9%

LER – 65

TER – 57

		Candlepower				Light Distribution								
Catalog No.	2STGA214-D-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire					
Test No.	27067D1	0	772	772	772	0-30	592	24.7	27.8					
S/MH	1.2	5	764	767	772	0-40	962	40.1	45.1					
Lamp Type	F14T5	10	753	755	760	0-60	1694	70.6	79.4					
Lumens/Lamp	1200	15	734	737	739	0-90	2134	88.9	100.0					
Ballast Factor	1.00	20	708	710	712									
Input Watts	33	25	673	675	679									
Comparative yearly lighting energy cost per 1000 lumens – \$3.69 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.		30	632	635	640									
		35	580	588	605									
		40	528	540	574									
		45	465	488	543									
		50	397	439	507									
		55	331	385	460									
		60	266	327	402									
		65	202	264	328									
		70	146	200	254									
		75	96	137	177									
		80	56	83	96									
		85	22	30	29									
						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	106	106	106	103	103	103	98	98
						1	96	93	89	93	91	86	86	83
						2	88	81	75	85	79	72	76	70
						3	80	70	64	78	68	63	67	60
						4	72	63	55	70	61	54	58	53
						5	68	56	47	66	55	47	53	46
						6	61	50	42	60	50	41	47	40
						7	57	46	38	56	45	38	44	36
						8	54	41	34	52	40	34	40	33
						9	50	38	30	48	38	30	36	29
						10	46	34	28	46	34	28	34	28

2ST SofTrace air recessed 2x2

T5, T5HO, T8, or CFTT5

Photometry

STGA 2x2 2 Lamp T8

Efficiency – 68.9%

LER – 52

TER – 44

		Candlepower				Light Distribution			
Catalog No.	2STGA217-PMW-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
Test No.	27112D1	0	623	623	623	0-30	485	18.3	26.6
S/MH	1.4	5	618	623	620	0-40	803	30.3	43.9
Lamp Type	F17T8	10	608	610	614	0-60	1445	54.5	79.1
Lumens/Lamp	1325	15	592	597	604	0-90	1827	68.9	100.0
Ballast Factor	0.88	20	570	580	592				
Input Watts	31	25	543	558	580				
Comparative yearly lighting energy cost per 1000 lumens – \$4.62 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.		30	509	533	566				
		35	470	505	550				
		40	425	472	530				
		45	377	435	502				
		50	323	393	465				
		55	269	344	419				
		60	213	289	366				
		65	162	231	308				
		70	117	180	239				
		75	77	123	155				
		80	44	66	73				
		85	16	16	19				
						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		81	81	81	80	80	80	77	77
1		75	71	68	72	69	68	67	65
2		68	61	57	66	60	56	58	55
3		61	55	48	59	54	47	52	46
4		56	47	41	55	46	41	46	40
5		52	42	36	51	41	35	40	35
6		47	39	33	46	38	32	36	32
7		45	34	28	42	34	28	33	28
8		40	32	26	40	32	26	30	25
9		39	28	23	38	28	23	28	23
10		35	27	22	34	27	20	26	20

STGA 2x2 2 Lamp T5

Efficiency – 78.9%

LER – 56

TER – 48

		Candlepower				Light Distribution																																																																																																																																																									
Catalog No.	2STGA214-PMW-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire																																																																																																																																																						
Test No.	27115D1	0	639	639	639	0-30	497	20.7	26.2																																																																																																																																																						
S/MH	1.4	5	636	636	636	0-40	821	34.2	43.4																																																																																																																																																						
Lamp Type	F14T5	10	624	625	628	0-60	1488	62.0	78.5																																																																																																																																																						
Lumens/Lamp	1200	15	608	612	617	0-90	1894	78.9	100.0																																																																																																																																																						
Ballast Factor	1.00	20	585	593	603																																																																																																																																																										
Input Watts	34	25	557	572	589																																																																																																																																																										
		30	523	543	574																																																																																																																																																										
		35	485	515	561																																																																																																																																																										
		40	438	482	544																																																																																																																																																										
		45	386	446	520																																																																																																																																																										
		50	333	406	489																																																																																																																																																										
		55	276	359	443																																																																																																																																																										
		60	220	305	387																																																																																																																																																										
		65	167	243	337																																																																																																																																																										
		70	121	185	269																																																																																																																																																										
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Comparative yearly lighting energy cost per 1000 lumens – \$4.29 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.		Coefficients of Utilization <table><tr><td colspan="10">EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</td></tr><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="3">50</td></tr><tr><td>pw</td><td>70</td><td>50</td><td>30</td><td>70</td><td>50</td><td>30</td><td>50</td><td>30</td><td></td></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr><tr><td>0</td><td>93</td><td>93</td><td>93</td><td>92</td><td>92</td><td>92</td><td>88</td><td>88</td><td></td></tr><tr><td>1</td><td>85</td><td>81</td><td>79</td><td>83</td><td>80</td><td>77</td><td>77</td><td>73</td><td></td></tr><tr><td>2</td><td>78</td><td>70</td><td>66</td><td>76</td><td>69</td><td>65</td><td>67</td><td>63</td><td></td></tr><tr><td>3</td><td>70</td><td>61</td><td>56</td><td>68</td><td>60</td><td>55</td><td>58</td><td>54</td><td></td></tr><tr><td>4</td><td>65</td><td>55</td><td>47</td><td>63</td><td>54</td><td>47</td><td>52</td><td>46</td><td></td></tr><tr><td>5</td><td>58</td><td>48</td><td>41</td><td>57</td><td>47</td><td>40</td><td>46</td><td>40</td><td></td></tr><tr><td>6</td><td>55</td><td>44</td><td>36</td><td>53</td><td>42</td><td>36</td><td>41</td><td>35</td><td></td></tr><tr><td>7</td><td>51</td><td>40</td><td>33</td><td>48</td><td>39</td><td>33</td><td>38</td><td>32</td><td></td></tr><tr><td>8</td><td>46</td><td>35</td><td>29</td><td>46</td><td>35</td><td>28</td><td>34</td><td>28</td><td></td></tr><tr><td>9</td><td>44</td><td>33</td><td>27</td><td>42</td><td>33</td><td>27</td><td>32</td><td>26</td><td></td></tr><tr><td>10</td><td>40</td><td>30</td><td>23</td><td>40</td><td>29</td><td>23</td><td>29</td><td>23</td><td></td></tr></table>								EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)										pcc	80			70			50			pw	70	50	30	70	50	30	50	30		RCR										0	93	93	93	92	92	92	88	88		1	85	81	79	83	80	77	77	73		2	78	70	66	76	69	65	67	63		3	70	61	56	68	60	55	58	54		4	65	55	47	63	54	47	52	46		5	58	48	41	57	47	40	46	40		6	55	44	36	53	42	36	41	35		7	51	40	33	48	39	33	38	32		8	46	35	29	46	35	28	34	28		9	44	33	27	42	33	27	32	26		10	40	30	23	40	29	23	29	23	
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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

