

Day-Brite

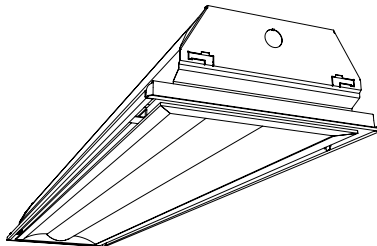
CFI

by @ignify

Recessed

SofTrace air 1x4

T5, T5HO, or T8



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: 1STGA132-D-UNV-1/1-EBHHE-LPT835HL

Width	Family	Ceiling Type	Air Function	No. of Lamps (not included)	Lamp Type	Center Diffusers	Voltage	Ballast Configuration	Ballast Type	Options
1	ST				—	—	—	—	—	
1 1'	ST Softrace	G Grid F Flange Z Z Spline/ Modular T Screw Slot	A Air supply/ return S Static (reveal but no air slots)	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 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 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	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 WR White Reveal

Accessories (order separately)

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



1ST SofTrace air 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.
- Designed for air supply/return through side slots in reveal. See sheet 518-AH for air flow data.

Construction/Finish

- Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is available.
- Suitable for end-to-end mounting.
- 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

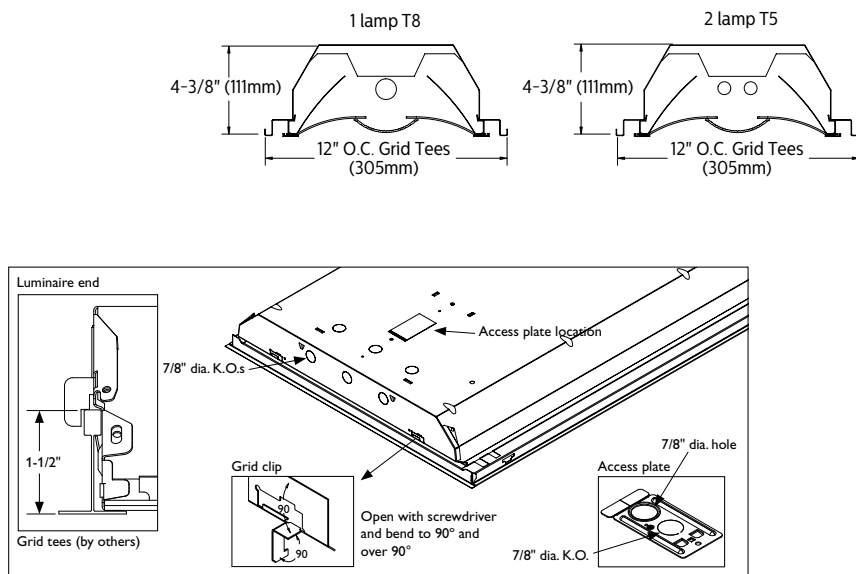
Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
1 Lamp 28	EB EBSD115@hi (@lo)	33W / 33W 38W / 38W (19W/ 19W)	91 88 (66)	96 92 (69)
1 Lamp 32	EB EB10R EBLHE EBHHE EBSD@hi (@lo)	31W / 31W 31W / 30W 29W / 29W 41W / 41W 29W / 29W (14W / 14W)	79 79 86 82 85 (60)	88 88 96 91 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 95 (73) 94 94 (80) 94	100 100 (74) 99 99 (78) 99

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

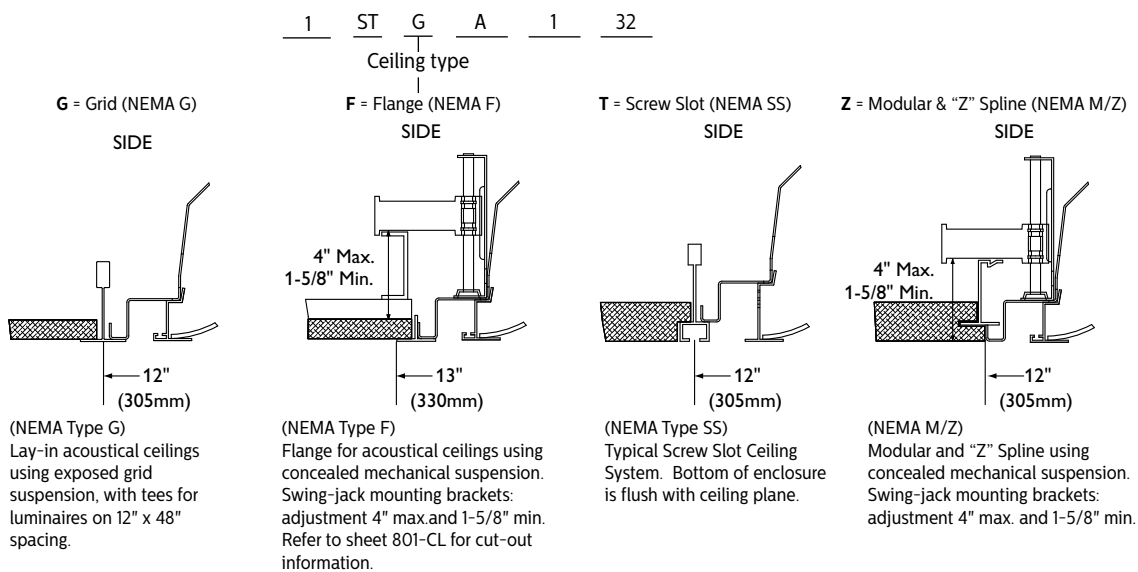
1ST SofTrace air recessed 1x4

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Dimensions



Ceiling configuration



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Photometry

STGA 1x4 1 Lamp T8

Efficiency – 80.5%

LER – 55

TER – 47

Catalog No. 1STGA132-D-1/1-EB		Candlepower				Light Distribution			
Test No. 27095D1		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
S/MH 1.2		0	875	875	875	0-30	662	23.2	28.8
Lamp Type F32T8		5	874	871	865	0-40	1076	37.7	46.9
Lumens/Lamp 2850		10	861	853	841	0-60	1869	65.6	81.5
Ballast Factor 0.88		15	841	825	810	0-90	2293	80.5	100.0
Input Watts 37		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				
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.									

STGA 1x4 1 Lamp T5

Efficiency – 93.0%

LER – 71

TER – 62

Catalog No. 1STGA128-D-1/1-EB		Candlepower				Light Distribution			
Test No. 27091D1		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
S/MH 1.2		0	936	936	936	0-30	703	27.0	29.1
Lamp Type F28T5		5	928	927	924	0-40	1138	43.8	47.1
Lumens/Lamp 2600		10	917	911	902	0-60	1971	75.8	81.5
Ballast Factor 1.00		15	897	881	866	0-90	2418	93.0	100.0
Input Watts 34		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				
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.									
		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

1ST SofTrace air recessed 1x4

T5, T5HO, or T8

Photometry

STGA 1x4 2 Lamp T5

Efficiency – 81.9%

LER – 71

TER – 62

Catalog No.		Candlepower				Light Distribution																																																																																																																																	
Test No.		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire																																																																																																																														
S/MH		0	1552	1552	1552	0-30	1214	23.3	28.5																																																																																																																														
Lamp Type		5	1545	1550	1533	0-40	1996	38.4	46.9																																																																																																																														
Lumens/Lamp		10	1526	1533	1518	0-60	3473	66.8	81.6																																																																																																																														
Ballast Factor		15	1490	1498	1491	0-90	4257	81.9	100.0																																																																																																																														
Input Watts		20	1438	1457	1458	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="2">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></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="2"></td></tr><tr><td>0</td><td>96</td><td>96</td><td>96</td><td>94</td><td>94</td><td>94</td><td>91</td><td>91</td></tr><tr><td>1</td><td>89</td><td>85</td><td>81</td><td>86</td><td>83</td><td>81</td><td>80</td><td>78</td></tr><tr><td>2</td><td>81</td><td>75</td><td>69</td><td>79</td><td>72</td><td>68</td><td>70</td><td>66</td></tr><tr><td>3</td><td>73</td><td>66</td><td>58</td><td>71</td><td>65</td><td>58</td><td>61</td><td>56</td></tr><tr><td>4</td><td>68</td><td>58</td><td>52</td><td>66</td><td>57</td><td>51</td><td>55</td><td>50</td></tr><tr><td>5</td><td>63</td><td>52</td><td>45</td><td>60</td><td>51</td><td>45</td><td>50</td><td>44</td></tr><tr><td>6</td><td>57</td><td>46</td><td>40</td><td>56</td><td>46</td><td>40</td><td>45</td><td>39</td></tr><tr><td>7</td><td>54</td><td>42</td><td>35</td><td>52</td><td>41</td><td>34</td><td>40</td><td>34</td></tr><tr><td>8</td><td>50</td><td>39</td><td>32</td><td>48</td><td>39</td><td>32</td><td>36</td><td>30</td></tr><tr><td>9</td><td>46</td><td>35</td><td>28</td><td>46</td><td>34</td><td>28</td><td>34</td><td>28</td></tr><tr><td>10</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></tr></table>				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
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85	53	52	48																																																																																																																																				

STGA 1x4 1 Lamp T8

Efficiency – 72.1%

LER – 49

TER – 43

Catalog No.		Candlepower				Light Distribution																																																																																																																																	
Test No.		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire																																																																																																																														
S/MH		0	697	697	697	0-30	556	19.5	27.0																																																																																																																														
Lamp Type		5	696	696	692	0-40	928	32.6	45.1																																																																																																																														
Lumens/Lamp		10	686	689	689	0-60	1667	58.5	81.1																																																																																																																														
Ballast Factor		15	671	678	683	0-90	2055	72.1	100.0																																																																																																																														
Input Watts		20	649	663	677	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="2">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></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="2"></td></tr><tr><td>0</td><td>85</td><td>85</td><td>85</td><td>83</td><td>83</td><td>83</td><td>80</td><td>80</td></tr><tr><td>1</td><td>79</td><td>75</td><td>71</td><td>77</td><td>73</td><td>70</td><td>70</td><td>68</td></tr><tr><td>2</td><td>71</td><td>66</td><td>60</td><td>69</td><td>64</td><td>59</td><td>61</td><td>57</td></tr><tr><td>3</td><td>65</td><td>57</td><td>52</td><td>64</td><td>56</td><td>51</td><td>55</td><td>50</td></tr><tr><td>4</td><td>59</td><td>51</td><td>45</td><td>57</td><td>50</td><td>44</td><td>47</td><td>42</td></tr><tr><td>5</td><td>55</td><td>46</td><td>39</td><td>53</td><td>45</td><td>39</td><td>42</td><td>38</td></tr><tr><td>6</td><td>51</td><td>40</td><td>34</td><td>48</td><td>40</td><td>34</td><td>39</td><td>34</td></tr><tr><td>7</td><td>46</td><td>36</td><td>30</td><td>46</td><td>36</td><td>30</td><td>34</td><td>29</td></tr><tr><td>8</td><td>44</td><td>34</td><td>28</td><td>42</td><td>33</td><td>28</td><td>32</td><td>27</td></tr><tr><td>9</td><td>40</td><td>30</td><td>25</td><td>40</td><td>30</td><td>25</td><td>29</td><td>25</td></tr><tr><td>10</td><td>38</td><td>28</td><td>23</td><td>36</td><td>28</td><td>23</td><td>28</td><td>22</td></tr></table>				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
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		45	456	516	557																																																																																																																																		
		50	400	460	495																																																																																																																																		
		55	341	396	421																																																																																																																																		
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1ST SofTrace air recessed 1x4

T5, T5HO, or T8

Photometry

STGA 1x4 1 Lamp T5

Efficiency – 82.3%

LER – 63

TER – 54

		Candlepower				Light Distribution																																																																																																																																			
Catalog No.	1STGA128-PMW-1/1-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire																																																																																																																																
Test No.	27090D1	0	9711	711	711	0-30	569	21.9	26.6																																																																																																																																
S/MH	1.4	5	711	710	707	0-40	953	36.7	44.5																																																																																																																																
Lamp Type	F28T5	10	701	704	705	0-60	1728	66.5	80.8																																																																																																																																
Lumens/Lamp	2600	15	684	694	702	0-90	2140	82.3	100.0																																																																																																																																
Ballast Factor	1.00	20	662	680	697	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><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></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr><tr><td>0</td><td>97</td><td>97</td><td>97</td><td>95</td><td>95</td><td>95</td><td>91</td><td>91</td></tr><tr><td>1</td><td>90</td><td>85</td><td>82</td><td>88</td><td>83</td><td>81</td><td>81</td><td>78</td></tr><tr><td>2</td><td>81</td><td>75</td><td>68</td><td>80</td><td>72</td><td>68</td><td>70</td><td>66</td></tr><tr><td>3</td><td>73</td><td>66</td><td>58</td><td>71</td><td>65</td><td>57</td><td>61</td><td>56</td></tr><tr><td>4</td><td>68</td><td>57</td><td>51</td><td>66</td><td>56</td><td>50</td><td>55</td><td>48</td></tr><tr><td>5</td><td>63</td><td>52</td><td>45</td><td>60</td><td>51</td><td>44</td><td>48</td><td>42</td></tr><tr><td>6</td><td>57</td><td>46</td><td>39</td><td>56</td><td>46</td><td>39</td><td>44</td><td>38</td></tr><tr><td>7</td><td>53</td><td>41</td><td>34</td><td>52</td><td>41</td><td>34</td><td>40</td><td>34</td></tr><tr><td>8</td><td>50</td><td>38</td><td>30</td><td>47</td><td>38</td><td>30</td><td>36</td><td>30</td></tr><tr><td>9</td><td>46</td><td>34</td><td>28</td><td>45</td><td>34</td><td>28</td><td>34</td><td>28</td></tr><tr><td>10</td><td>42</td><td>32</td><td>26</td><td>41</td><td>32</td><td>26</td><td>30</td><td>25</td></tr></table>				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
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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																																																																																																																																	
Input Watts	34	25	634	663	691																																																																																																																																				
Comparative yearly lighting energy cost per 1000 lumens – \$3.81 based on 3000 hrs. and \$.08 pwr KWH.		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																																																																																																																																				
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		80	63	61	49																																																																																																																																				
		85	26	19	17																																																																																																																																				

STGA 1x4 2 Lamp T5

Efficiency – 76.0%

LER – 63

TER – 55

Catalog No.	1STGA228-PMW-1/2-EB	Candlepower				Light Distribution			
Test No.	27101D1	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
S/MH	1.4	0	1309	1309		0-30	1065	20.5	26.9
Lamp Type	F28T5	5	1307	1314	1302	0-40	1785	34.3	45.1
Lumens/Lamp	2600	10	1287	1306	1309	0-60	3206	61.6	81.1
Ballast Factor	1.00	15	1258	1296	1316	0-90	3953	76.0	100.0
Input Watts	63	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				



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

