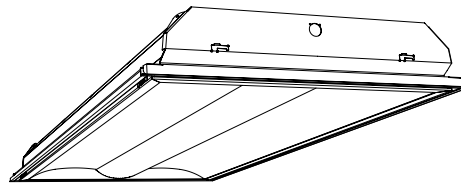


### Recessed

SofTrace air 2x4

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: 2STGA232-D-UNV-1/2-EBLHE-LPT835HL

| Width | Family      | Ceiling Type                                                 | Air Function                                                  | No. of Lamps (not included) | Lamp Type                                              | Center Diffusers                                                             | Voltage                                             | Ballast                | Ballast Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|-------------|--------------------------------------------------------------|---------------------------------------------------------------|-----------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2     | ST          |                                                              |                                                               | 2                           | —                                                      | —                                                                            | —                                                   | 1/2                    | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2 2'  | ST Softrace | G Grid<br>F Flange<br>Z Z Spline/<br>Modular<br>T Screw Slot | A Air supply/<br>return<br>S Static (Reveal but no air slots) | 2                           | 28 28WT5 (46")<br>32 32WT8 (48")<br>54HO 54WT5HO (46") | D Diffuse (Ribbed)<br>DS Diffuse (Smooth)<br>PMW Round perf w/ white overlay | 120<br>277<br>347<br>UNV Universal Voltage 120-277V | 1/2 One 2 lamp ballast | EB95 T5 electronic ballast, .95 ballast factor<br>EB115 T5 electronic ballast, 1.15 ballast factor<br>EBS95 T5 electronic step dimming ballast, .95 ballast factor<br>EBS95 T5 electronic step dimming ballast, 1.15 ballast factor<br>EBSD T8 electronic step dimming ballast, .88 ballast factor<br>EBD7 Advance Mark 7 dimming ballast, 0-10V (low voltage) control<br>EBDX Advance Mark 10 dimming ballast, phase control<br>EBD Electronic dimming ballast, customer specified<br>EB Electronic ballast, < 10% THD std. ballast factor<br>EBHE T8 electronic ballast, high efficiency std. ballast factor<br>EBLHE T8 electronic ballast, high efficiency low ballast factor<br>EBHHE T8 electronic ballast, high efficiency high ballast factor<br>EB10R T8 electronic ballast, <10% THD, program rapid start | F1 3/8" flex, 3 wire 18 gauge 6'<br>F2 3/8" flex, 4 wire 18 gauge 6'<br>F2/5W 3/8" flex, 5 wire 18 gauge 6'<br>E1 B100 emerg. ballast, T8, 350-450 lumens, 120/277V<br>E1CAN B100-CAN emerg. ballast, Canada market, T8 350-450 lumens, 120/347V<br>E7 B60 emerg. ballast, T8, 600-700 lumens, 120/277V<br>E5 B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV<br>E5CAN B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V<br>E5ST B50ST emerg. ballast w/ self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV<br>E7LP LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V<br>E6LP LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V<br>GLR Fusing, fast blow<br>LPT830HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3000K<br>LPT835HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K<br>LPT841HL Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K<br>LPT830 Installed T8/T5/T5HO lamps, 80+ CRI, 3000K<br>LPT835 Installed T8/T5/T5HO lamps, 80+ CRI, 3500K<br>LPT841 Installed T8/T5/T5HO lamps, 80+ CRI, 4100K<br>PAF Housing painted after fabrication<br>WR White reveal<br>RIB Ribbed side diffusers |

#### Accessories (order separately)

- FMA24 2'x4' "F" mounting frame for NEMA "F" mounting
- FKDP24 Flange conversion kit 2'x4'

# 2ST SofTrace air recessed 2x4

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 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.
- End K.O.s 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 102 Lumens/Watt.
- Total luminaire efficacy as high as 88 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

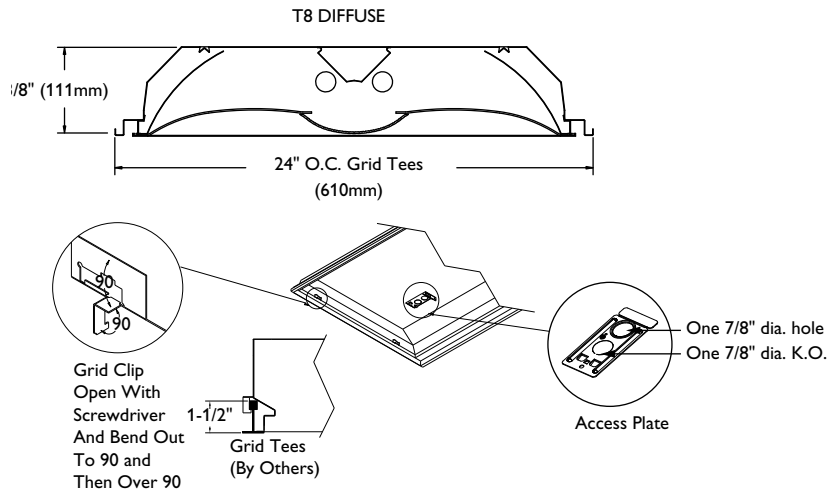
| Lamp Type | Ballast Type | Input Power (120/277V) | Electrical System Lumens/Watt |                |
|-----------|--------------|------------------------|-------------------------------|----------------|
|           |              |                        | Std. Lamps*                   | Hi-Lumen Lamps |
| 28        | EB95         | 59W / 58W              | 95                            | 100            |
|           | EBSD95@hi    | 59W / 58W              | 95                            | 100            |
|           | EBSD95@lo    | 28W / 28W              | 73                            | 76             |
|           | EB115        | 71W / 69W              | 97                            | 102            |
|           | EBSD115@hi   | 71W / 71W              | 94                            | 99             |
|           | EBSD115@lo   | 35W / 35W              | 80                            | 81             |
|           | EB           | 66W / 64W              | 91                            | 95             |
|           |              |                        |                               |                |
| 32        | EB           | 58W / 58W              | 85                            | 94             |
|           | EB10R        | 62W / 60W              | 82                            | 91             |
|           | EBHE         | 55W / 54W              | 90                            | 100            |
|           | EBLHE        | 47W / 47W              | 92                            | 102            |
|           | EBHHE        | 74W / 73W              | 91                            | 100            |
|           | EBSD@hi      | 57W / 56W              | 88                            | 97             |
|           | EBSD@lo      | 28W / 28W              | 60                            | 66             |
|           |              |                        |                               |                |
| 54HO      | EB           | 120W / 117W            | 85                            | —              |

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

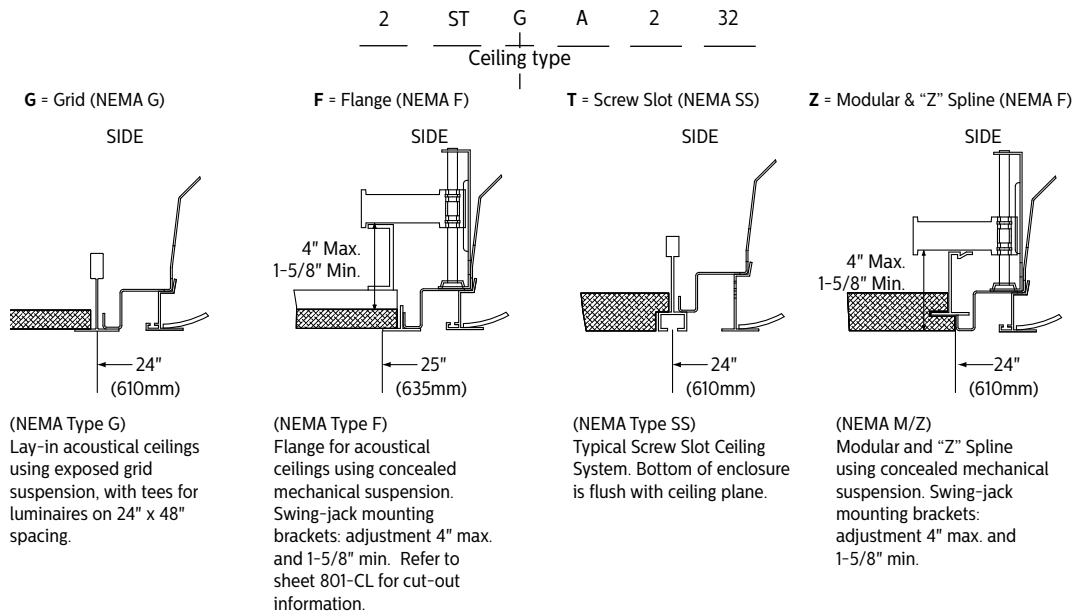
# 2ST SofTrace air recessed 2x4

T5, T5HO, or T8

## Dimensions



## Ceiling configuration



# 2ST SofTrace air recessed 2x4

T5, T5HO, or T8

## ST 2x4 2 Lamp T8 Diffuse\*

Efficiency – 85.2%

LER – 72

TER – 63

|                                                                                                                                                    |                   | Candlepower |      |      |       | Light Distribution                                   |        |        |             |    |    |    |    |    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|------|------|-------|------------------------------------------------------|--------|--------|-------------|----|----|----|----|----|--|
| Catalog No.                                                                                                                                        | 2STGA232-D-1/2-EB | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Lamp | % Luminaire |    |    |    |    |    |  |
| Test No.                                                                                                                                           | 27034D1           | 0           | 1725 | 1725 | 1725  | 0-30                                                 | 1331   | 23.4   | 27.4        |    |    |    |    |    |  |
| S/MH                                                                                                                                               | 1.2               | 5           | 1730 | 1719 | 1707  | 0-40                                                 | 2175   | 38.2   | 44.8        |    |    |    |    |    |  |
| Lamp Type                                                                                                                                          | F32T8             | 10          | 1701 | 1693 | 1680  | 0-60                                                 | 3856   | 67.7   | 79.4        |    |    |    |    |    |  |
| Lumens/Lamp                                                                                                                                        | 2850              | 15          | 1661 | 1653 | 1639  | 0-90                                                 | 4854   | 85.2   | 100.0       |    |    |    |    |    |  |
| Ballast Factor                                                                                                                                     | .88               | 20          | 1608 | 1597 | 1584  |                                                      |        |        |             |    |    |    |    |    |  |
| Input Watts                                                                                                                                        | 59                | 25          | 1533 | 1525 | 1515  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 30          | 1444 | 1439 | 1443  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 35          | 1334 | 1345 | 1372  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 40          | 1219 | 1241 | 1294  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 45          | 1089 | 1137 | 1214  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 50          | 944  | 1020 | 1120  |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 55          | 814  | 895  | 996   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 60          | 642  | 756  | 850   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 65          | 492  | 606  | 688   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 70          | 359  | 462  | 517   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 75          | 236  | 320  | 355   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 80          | 135  | 195  | 188   |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   | 85          | 56   | 73   | 66    |                                                      |        |        |             |    |    |    |    |    |  |
| Comparative yearly lighting energy cost per 1000 lumens – \$3.33 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. |                   |             |      |      |       |                                                      |        |        |             |    |    |    |    |    |  |
| *smooth or ribbed center, smooth or ribbed sides                                                                                                   |                   |             |      |      |       |                                                      |        |        |             |    |    |    |    |    |  |
|                                                                                                                                                    |                   |             |      |      |       | 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                                                    | 101    | 101    | 101         | 98 | 98 | 98 | 94 | 94 |  |
|                                                                                                                                                    |                   |             |      |      |       | 1                                                    | 93     | 89     | 84          | 90 | 86 | 82 | 82 | 80 |  |
|                                                                                                                                                    |                   |             |      |      |       | 2                                                    | 83     | 77     | 70          | 81 | 76 | 69 | 72 | 68 |  |
|                                                                                                                                                    |                   |             |      |      |       | 3                                                    | 77     | 68     | 60          | 75 | 66 | 59 | 64 | 57 |  |
|                                                                                                                                                    |                   |             |      |      |       | 4                                                    | 69     | 59     | 53          | 68 | 58 | 52 | 56 | 51 |  |
|                                                                                                                                                    |                   |             |      |      |       | 5                                                    | 65     | 54     | 46          | 63 | 53 | 45 | 51 | 44 |  |
|                                                                                                                                                    |                   |             |      |      |       | 6                                                    | 59     | 47     | 40          | 57 | 46 | 40 | 46 | 39 |  |
|                                                                                                                                                    |                   |             |      |      |       | 7                                                    | 55     | 44     | 35          | 54 | 42 | 35 | 41 | 34 |  |
|                                                                                                                                                    |                   |             |      |      |       | 8                                                    | 51     | 40     | 33          | 50 | 39 | 32 | 38 | 32 |  |
|                                                                                                                                                    |                   |             |      |      |       | 9                                                    | 47     | 36     | 29          | 46 | 35 | 28 | 34 | 28 |  |
|                                                                                                                                                    |                   |             |      |      |       | 10                                                   | 45     | 34     | 27          | 44 | 33 | 27 | 32 | 26 |  |

## ST 2x4 2 Lamp T5 Diffuse\*

Efficiency – 95.1%

LER – 78

TER – 68

|                                                                                                                                                    |                     | Candlepower |      |      |       | Light Distribution                                   |        |        |             |     |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|------|------|-------|------------------------------------------------------|--------|--------|-------------|-----|-----|-----|-----|
| Catalog No.                                                                                                                                        | 2STGA228-D-1/2-EB95 | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Lamp | % Luminaire |     |     |     |     |
| Test No.                                                                                                                                           | 27100D1             | 0           | 1759 | 1759 | 1759  | 0-30                                                 | 1354   | 26.0   | 27.4        |     |     |     |     |
| S/MH                                                                                                                                               | 1.2                 | 5           | 1757 | 1749 | 1745  | 0-40                                                 | 2205   | 42.4   | 44.6        |     |     |     |     |
| Lamp Type                                                                                                                                          | F28T5               | 10          | 1732 | 1723 | 1718  | 0-60                                                 | 3906   | 75.1   | 79.0        |     |     |     |     |
| Lumens/Lamp                                                                                                                                        | 2600                | 15          | 1690 | 1682 | 1675  | 0-90                                                 | 4943   | 95.1   | 100.0       |     |     |     |     |
| Ballast Factor                                                                                                                                     | .95                 | 20          | 1636 | 1626 | 1608  |                                                      |        |        |             |     |     |     |     |
| Input Watts                                                                                                                                        | 60                  | 25          | 1559 | 1549 | 1534  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 30          | 1466 | 1456 | 1451  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 35          | 1358 | 1354 | 1374  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 40          | 1232 | 1249 | 1306  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 45          | 1093 | 1139 | 1237  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 50          | 941  | 1024 | 1154  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 55          | 791  | 903  | 1046  |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 60          | 640  | 768  | 903   |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 65          | 495  | 624  | 739   |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 70          | 356  | 476  | 565   |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 75          | 236  | 335  | 390   |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 80          | 136  | 203  | 203   |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     | 85          | 54   | 74   | 65    |                                                      |        |        |             |     |     |     |     |
| Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.08</b> 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. |                     |             |      |      |       |                                                      |        |        |             |     |     |     |     |
| *smooth or ribbed center, smooth or ribbed sides                                                                                                   |                     |             |      |      |       |                                                      |        |        |             |     |     |     |     |
|                                                                                                                                                    |                     |             |      |      |       | 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                                                                                                                                                  |                     |             |      |      |       | 112                                                  | 112    | 112    | 111         | 111 | 111 | 106 | 106 |
| 1                                                                                                                                                  |                     |             |      |      |       | 103                                                  | 98     | 94     | 101         | 96  | 93  | 93  | 90  |
| 2                                                                                                                                                  |                     |             |      |      |       | 93                                                   | 85     | 80     | 91          | 83  | 78  | 81  | 76  |
| 3                                                                                                                                                  |                     |             |      |      |       | 85                                                   | 76     | 68     | 82          | 73  | 67  | 70  | 65  |
| 4                                                                                                                                                  |                     |             |      |      |       | 78                                                   | 67     | 57     | 76          | 66  | 57  | 63  | 56  |
| 5                                                                                                                                                  |                     |             |      |      |       | 71                                                   | 59     | 51     | 69          | 58  | 51  | 56  | 48  |
| 6                                                                                                                                                  |                     |             |      |      |       | 66                                                   | 54     | 45     | 65          | 53  | 45  | 51  | 44  |
| 7                                                                                                                                                  |                     |             |      |      |       | 61                                                   | 48     | 40     | 59          | 47  | 40  | 46  | 39  |
| 8                                                                                                                                                  |                     |             |      |      |       | 56                                                   | 44     | 35     | 56          | 44  | 35  | 41  | 34  |
| 9                                                                                                                                                  |                     |             |      |      |       | 54                                                   | 40     | 33     | 52          | 40  | 33  | 39  | 32  |
| 10                                                                                                                                                 |                     |             |      |      |       | 50                                                   | 38     | 29     | 48          | 36  | 29  | 35  | 28  |

# 2ST SofTrace air recessed 2x4

T5, T5HO, or T8

## ST 2x4 2 Lamp T8 Perf.\*

Efficiency – 72.2%

LER – 59

TER – 52

|                                                                                                                                                    |                     |             |      |      |       |                    |        |        |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|------|------|-------|--------------------|--------|--------|-------------|
|                                                                                                                                                    |                     | Candlepower |      |      |       | Light Distribution |        |        |             |
| Catalog No.                                                                                                                                        | 2STGA232-PMW-1/2-EB | Angle       | End  | 45   | Cross | Degrees            | Lumens | % Lamp | % Luminaire |
| Test No.                                                                                                                                           | 27092D1             | 0           | 1394 | 1394 | 1394  | 0-30               | 1091   | 19.1   | 26.5        |
| S/MH                                                                                                                                               | 1.3                 | 5           | 1395 | 1390 | 1383  | 0-40               | 1803   | 31.6   | 43.8        |
| Lamp Type                                                                                                                                          | F32T8               | 10          | 1373 | 1372 | 1369  | 0-60               | 3254   | 57.1   | 79.1        |
| Lumens/Lamp                                                                                                                                        | 2850                | 15          | 1339 | 1343 | 1349  | 0-90               | 4115   | 72.2   | 100.0       |
| Ballast Factor                                                                                                                                     | .88                 | 20          | 1293 | 1306 | 1322  |                    |        |        |             |
| Input Watts                                                                                                                                        | 61                  | 25          | 1230 | 1258 | 1288  |                    |        |        |             |
|                                                                                                                                                    |                     | 30          | 1157 | 1198 | 1251  |                    |        |        |             |
|                                                                                                                                                    |                     | 35          | 1075 | 1132 | 1213  |                    |        |        |             |
|                                                                                                                                                    |                     | 40          | 970  | 1057 | 1162  |                    |        |        |             |
|                                                                                                                                                    |                     | 45          | 869  | 979  | 1105  |                    |        |        |             |
|                                                                                                                                                    |                     | 50          | 755  | 889  | 1023  |                    |        |        |             |
|                                                                                                                                                    |                     | 55          | 632  | 783  | 918   |                    |        |        |             |
|                                                                                                                                                    |                     | 60          | 506  | 666  | 790   |                    |        |        |             |
|                                                                                                                                                    |                     | 65          | 385  | 529  | 651   |                    |        |        |             |
|                                                                                                                                                    |                     | 70          | 279  | 403  | 508   |                    |        |        |             |
|                                                                                                                                                    |                     | 75          | 184  | 279  | 348   |                    |        |        |             |
|                                                                                                                                                    |                     | 80          | 103  | 158  | 156   |                    |        |        |             |
|                                                                                                                                                    |                     | 85          | 40   | 38   | 39    |                    |        |        |             |
| Comparative yearly lighting energy cost per 1000 lumens – <b>\$4.07</b> 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. |                     |             |      |      |       |                    |        |        |             |
| *smooth or ribbed sides                                                                                                                            |                     |             |      |      |       |                    |        |        |             |

| 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 | 72 | 70 | 69 | 68 |  |
| 2                                                    | 70 | 65 | 59 | 68 | 64 | 58 | 60 | 57 |  |
| 3                                                    | 65 | 56 | 51 | 63 | 56 | 51 | 54 | 48 |  |
| 4                                                    | 58 | 51 | 44 | 57 | 50 | 44 | 47 | 42 |  |
| 5                                                    | 55 | 45 | 39 | 53 | 44 | 38 | 42 | 36 |  |
| 6                                                    | 50 | 40 | 34 | 48 | 40 | 34 | 39 | 33 |  |
| 7                                                    | 46 | 36 | 29 | 45 | 35 | 29 | 34 | 29 |  |
| 8                                                    | 42 | 33 | 27 | 41 | 33 | 27 | 32 | 27 |  |
| 9                                                    | 40 | 30 | 25 | 39 | 29 | 25 | 28 | 23 |  |
| 10                                                   | 38 | 28 | 23 | 36 | 28 | 22 | 27 | 22 |  |

## ST 2x4 2 Lamp T5 Perf.\*

Efficiency – 80.6%

LER – 66

TER – 65

|                                                                                                                                                    |                       |             |      |      |       |                    |        |        |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|------|------|-------|--------------------|--------|--------|-------------|
|                                                                                                                                                    |                       | Candlepower |      |      |       | Light Distribution |        |        |             |
| Catalog No.                                                                                                                                        | 2STGA228-PMW-1/2-EB95 | Angle       | End  | 45   | Cross | Degrees            | Lumens | % Lamp | % Luminaire |
| Test No.                                                                                                                                           | 27099D1               | 0           | 1403 | 1403 | 1403  | 0-30               | 1098   | 21.1   | 26.2        |
| S/MH                                                                                                                                               | 1.3                   | 5           | 1407 | 1401 | 1390  | 0-40               | 1815   | 34.9   | 43.3        |
| Lamp Type                                                                                                                                          | F28T5                 | 10          | 1382 | 1380 | 1377  | 0-60               | 3293   | 63.3   | 78.6        |
| Lumens/Lamp                                                                                                                                        | 2600                  | 15          | 1348 | 1348 | 1355  | 0-90               | 4189   | 80.6   | 100.0       |
| Ballast Factor                                                                                                                                     | .95                   | 20          | 1300 | 1314 | 1326  |                    |        |        |             |
| Input Watts                                                                                                                                        | 60                    | 25          | 1242 | 1265 | 1290  |                    |        |        |             |
|                                                                                                                                                    |                       | 30          | 1169 | 1205 | 1252  |                    |        |        |             |
|                                                                                                                                                    |                       | 35          | 1086 | 1141 | 1217  |                    |        |        |             |
|                                                                                                                                                    |                       | 40          | 986  | 1069 | 1178  |                    |        |        |             |
|                                                                                                                                                    |                       | 45          | 880  | 990  | 1127  |                    |        |        |             |
|                                                                                                                                                    |                       | 50          | 760  | 900  | 1054  |                    |        |        |             |
|                                                                                                                                                    |                       | 55          | 640  | 801  | 953   |                    |        |        |             |
|                                                                                                                                                    |                       | 60          | 514  | 683  | 827   |                    |        |        |             |
|                                                                                                                                                    |                       | 65          | 394  | 553  | 688   |                    |        |        |             |
|                                                                                                                                                    |                       | 70          | 287  | 418  | 544   |                    |        |        |             |
|                                                                                                                                                    |                       | 75          | 190  | 294  | 361   |                    |        |        |             |
|                                                                                                                                                    |                       | 80          | 106  | 165  | 161   |                    |        |        |             |
|                                                                                                                                                    |                       | 85          | 43   | 40   | 40    |                    |        |        |             |
| Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.64</b> 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. |                       |             |      |      |       |                    |        |        |             |
| *smooth or ribbed sides                                                                                                                            |                       |             |      |      |       |                    |        |        |             |

| EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=.020) |     |     |     |  |     |     |     |    |    |
|------------------------------------------------------|-----|-----|-----|--|-----|-----|-----|----|----|
| pcc                                                  | 80  |     |     |  | 70  |     |     | 50 |    |
| pw                                                   | 70  | 50  | 30  |  | 70  | 50  | 30  | 50 | 30 |
| RCR                                                  |     |     |     |  |     |     |     |    |    |
| 0                                                    | 105 | 105 | 105 |  | 102 | 102 | 102 | 97 | 97 |
| 1                                                    | 96  | 93  | 89  |  | 93  | 91  | 88  | 86 | 84 |
| 2                                                    | 89  | 81  | 76  |  | 85  | 80  | 75  | 77 | 72 |
| 3                                                    | 81  | 71  | 66  |  | 79  | 70  | 65  | 68 | 63 |
| 4                                                    | 75  | 65  | 56  |  | 72  | 63  | 56  | 60 | 55 |
| 5                                                    | 68  | 57  | 50  |  | 67  | 56  | 50  | 55 | 48 |
| 6                                                    | 64  | 52  | 45  |  | 61  | 52  | 44  | 50 | 44 |
| 7                                                    | 58  | 47  | 40  |  | 57  | 46  | 40  | 46 | 39 |
| 8                                                    | 55  | 44  | 35  |  | 54  | 42  | 35  | 41 | 35 |
| 9                                                    | 52  | 40  | 33  |  | 50  | 40  | 33  | 39 | 32 |
| 10                                                   | 47  | 36  | 29  |  | 46  | 36  | 29  | 35 | 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](http://www.lamprecycle.org)

