

# Day-Brite

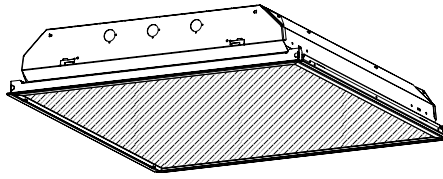
## CFI

by  Signify

### Recessed

SP troffer 1x4

T8, T5, or T5HO



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

The Day-Brite / CFI SP troffer is a specification grade recessed lensed luminaire and offers many premium options.

### Ordering guide

Example: 2SPG217R-FS01-UNV-1/2-EBHE-LPT835HL

| Width | Family           | Ceiling Type       | No. of Lamps (not included)                     | Lamp Type  | Housing           | Door Frame   | Lens   | Door Finish  | Voltage   | Options  |
|-------|------------------|--------------------|---|--|-------------------|--|--|--|---|--|
| 2     | SP               |                    |   |  | R                 | -  |  | -  | -   |  |
| 2 2'  | SP<br>SP Troffer | G Grid<br>F Flange | 2<br>3 (except 31U6)<br>4 (except 31U6 or 31U1) | 14 14WT5 (22")<br>17 17WT8 (24")<br>24HO 24WT5HO (22")<br>31U1 31WT8 1-5/8" (24")<br>31U6 31WT8 6" (24") | R Revised Housing | FS Flat Steel<br>FA Flat Aluminum<br>RA Regressed Aluminum | 01 Pattern 12 prismatic acrylic<br>12 K-12, .125" nominal<br>19 K-19, .156" nominal<br>21 Pattern 12, .125" nominal<br>30 1/2"x1/2"x1/2" silver polystyrene louver<br>34 1-1/2"x1-1/2"x1" silver polystyrene louver<br>52 3/4"x3/4"x1/2" silver polystyrene louver | BLANK White Door<br>277 Black Door<br>B UNV Universal Voltage 120-277V | 120<br>277<br>347<br>UNV Universal Voltage 120-277V | 1/2 One 2-lamp ballast<br>1/3 One 3-lamp ballast<br>1/21 2-lamp & 1-lamp ballasts<br>1/4 One 4-lamp ballast<br>2/2 Two 2-lamp ballasts<br>EB Electronic ballast, <10% THD, std. ballast factor<br>EB1OR T8 electronic ballast, program rapid start, <10% THD<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>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>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, 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>F1 3/8" flex 3 wire, 18 gauge 6'<br>F2 3/8" flex 4 wire, 18 gauge 6'<br>F2/SW 3/8" flex, 5 wire 18 gauge 6'<br>GLR Fusing, fast blow<br>PAF Housing painted after fabrication |

### Accessories (order separately)

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



# 2SP SP troffer recessed 2x2

T5, T5HO, or T8

## Construction/Finish

- Specification Quality recessed troffer for the following "NEMA" ceiling types: NEMA "G"-Grid, NEMA "NFSG"-Narrow Faced Slot Grid, NEMA "GR"-Grid Regressed, NEMA "NFG"-Narrow Faced Grid, NEMA "F"-Flange.
- Housing and door frame have smooth edges for easy handling.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Troffer body constructed of die-formed CR steel.
- Factory installed access plate includes 7/8" hole, 7/8" knockout and grounding screw.
- T-bar grid clips built into fixture, no extra parts required. Designed for use with standard grid ceiling members, 1-1/2" maximum height.
- One-piece housing features integral end plates that increase rigidity and minimize damage from handling or shipping.
- Low profile body minimizes clearance required.
- All units have wire hanger tabs for independent wire suspension.

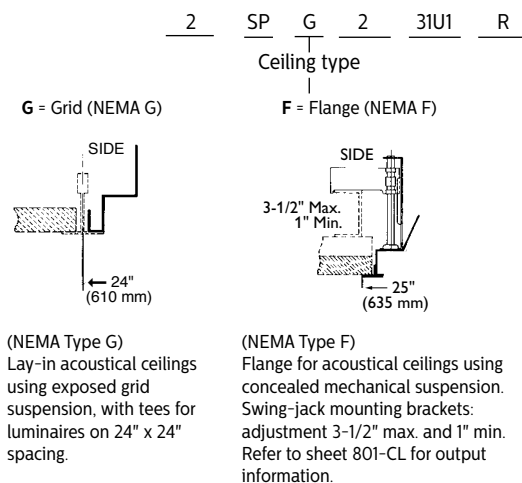
## Electrical

- cULus listed for damp locations.
- Self-contained fluorescent emergency power packs can be incorporated.
- No exposed internal wiring.

## Enclosure

- Mitered corner door frames.
- Mechanically designed interlocks eliminate light leaks, no gaskets are needed.
- White (standard) or black (optional) door frames available.
- Door frames can be hinged and latched from either side.
- Spring loaded latches are standard.

## Ceiling configuration

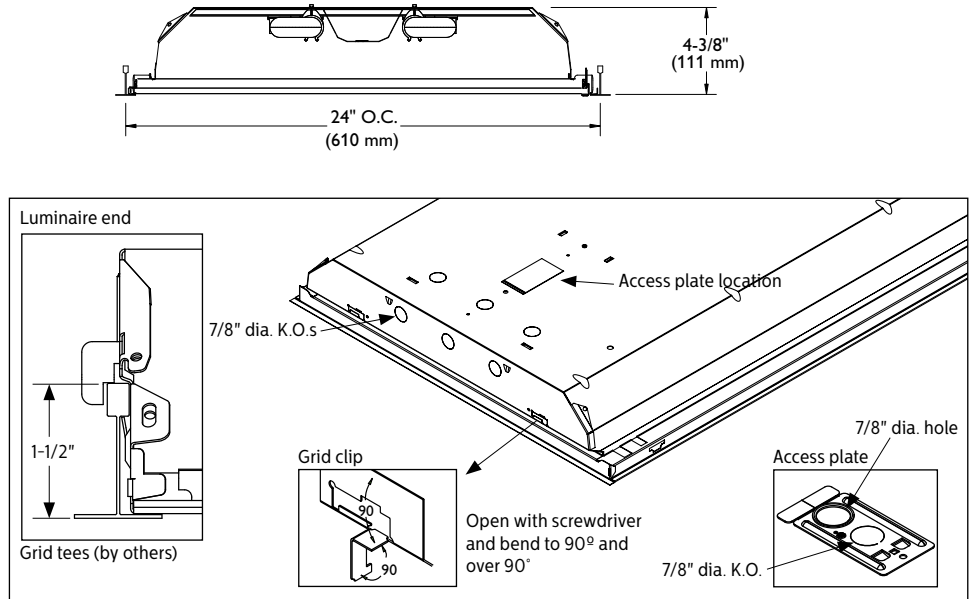


Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and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

# 2SP SP troffer recessed 2x2

T5, T5HO, or T8

## Dimensions



## Photometry

### SP 2x2 2 Lamp FB31U1

Efficiency – 82.3%

LER – 75

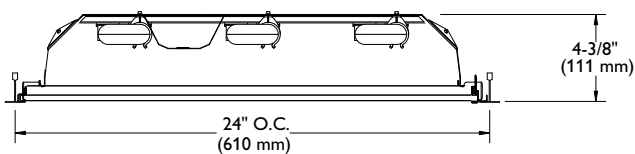
TER – 66

|   |                    |            |           |              |   |               |               |                    |                          |            |            |              |    |  |
|---|--------------------|------------|-----------|--------------|---|---------------|---------------|--------------------|--------------------------|------------|------------|--------------|----|--|
| <b>Catalog No.</b> 2SPG231U1R-FS01-1/2-EB<br><b>Test No.</b> 22804P<br><b>S/MH</b> 1.3<br><b>Lamp Type</b> FB31U1<br><b>Lumens/Lamp</b> 2800<br><b>Ballast Factor</b> .88<br><b>Input Watts</b> 54<br><br>Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.20</b> based on 3000 hrs. and \$.08 pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. | <b>Candlepower</b> |            |           |              | <b>Light Distribution</b>                                   |               |               |                    | <b>Average Luminance</b> |            |            |              |    |  |
|   | <b>Angle</b>       | <b>End</b> | <b>45</b> | <b>Cross</b> | <b>Degrees</b>  | <b>Lumens</b> | <b>% Lamp</b> | <b>% Luminaire</b> | <b>Angle</b>             | <b>End</b> | <b>45'</b> | <b>Cross</b> |    |  |
|   | 0                  | 1851       | 1851      | 1851         | 0-30  | 1449          | 25.9          | 31.4               | 45                       | 4682       | 5149       | 5731         |    |  |
|   | 5                  | 1848       | 1839      | 1846         | 0-40  | 2363          | 42.2          | 51.3               | 55                       | 3773       | 4349       | 4671         |    |  |
|   | 10                 | 1819       | 1819      | 1834         | 0-60  | 3905          | 69.7          | 84.7               | 65                       | 2936       | 2844       | 3350         |    |  |
|   | 15                 | 1759       | 1772      | 1803         | 0-90  | 4609          | 82.3          | 100.0              | 75                       | 2966       | 2128       | 2791         |    |  |
|   | 20                 | 1699       | 1735      | 1784         |   |               |               |                    | 85                       | 3419       | 2936       | 3234         |    |  |
|   | 25                 | 1605       | 1667      | 1742         | <b>Coefficients of Utilization</b>                          |               |               |                    |                          |            |            |              |    |  |
|   | 30                 | 1491       | 1578      | 1682         | <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> |               |               |                    |                          |            |            |              |    |  |
|   | 35                 | 1358       | 1463      | 1593         | pcc   | 80            |               |                    | 70                       |            |            | 50           |    |  |
|   | 40                 | 1201       | 1304      | 1451         | pw  | 70            | 50            | 30                 | 70                       | 50         | 30         | 50           | 30 |  |
|   | 45                 | 1022       | 1124      | 1251         | RRCR  |               |               |                    |                          |            |            |              |    |  |
|   | 50                 | 843        | 959       | 1031         | 0   | 97            | 97            | 97                 | 95                       | 95         | 95         | 91           | 91 |  |
|   | 55                 | 668        | 770       | 827          | 1   | 90            | 85            | 82                 | 88                       | 84         | 81         | 81           | 79 |  |
|   | 60                 | 512        | 561       | 614          | 2   | 82            | 76            | 70                 | 81                       | 75         | 69         | 71           | 68 |  |
| 65  | 383                | 371        | 437       | 3            | 76  | 68            | 60            | 73                 | 66                       | 60         | 64         | 58           |    |  |
| 70  | 294                | 235        | 314       | 4            | 69  | 59            | 54            | 68                 | 58                       | 53         | 56         | 52           |    |  |
| 75  | 237                | 170        | 223       | 5            | 64  | 54            | 46            | 63                 | 53                       | 46         | 52         | 46           |    |  |
| 80  | 177                | 139        | 164       | 6            | 59  | 48            | 41            | 57                 | 47                       | 41         | 46         | 40           |    |  |
| 85  | 92                 | 79         | 87        | 7            | 55  | 45            | 38            | 54                 | 44                       | 36         | 42         | 36           |    |  |
|   |                    |            |           | 8            | 52  | 40            | 34            | 50                 | 40                       | 34         | 39         | 33           |    |  |
|   |                    |            |           | 9            | 47  | 38            | 30            | 46                 | 36                       | 30         | 35         | 29           |    |  |
|   |                    |            |           | 10           | 45  | 34            | 28            | 44                 | 34                       | 28         | 34         | 28           |    |  |

# 2SP SP troffer recessed 2x2

T5, T5HO, or T8

## Dimensions



## Photometry

### SP 2x2 3 Lamp FB31U1

Efficiency – 75.5%

LER – 72

TER – 69

|                |                        | Candlepower   |      |      |       | Light Distribution |        |        |             | Average Luminance |      |      |       |
|----------------|------------------------|---|------|------|-------|--------------------|--------|--------|-------------|-------------------|------|------|-------|
| Catalog No.    | 2SPG331U1R-FS01-1/3-EB | Angle   | End  | 45   | Cross | Degrees            | Lumens | % Lamp | % Luminaire | Angle             | End  | 45°  | Cross |
| Test No.       | 22814P                 | 0   | 2657 | 2657 | 2657  | 0-30               | 2067   | 24.6   | 32.6        | 45                | 6629 | 7032 | 7398  |
| S/MH           | 1.3                    | 5   | 2645 | 2645 | 2645  | 0-40               | 3338   | 39.7   | 52.6        | 55                | 5314 | 5642 | 5885  |
| Lamp Type      | FB31U1                 | 10  | 2604 | 2615 | 2625  | 0-60               | 5403   | 64.3   | 85.2        | 65                | 4024 | 3687 | 4384  |
| Lumens/Lamp    | 2800                   | 15  | 2531 | 2561 | 2591  | 0-90               | 6342   | 75.5   | 100.0       | 75                | 4068 | 2854 | 3692  |
| Ballast Factor | 0.88                   | 20  | 2430 | 2480 | 2532  |                    |        |        |             |                   |      |      |       |
| Input Watts    | 72                     | 25  | 2295 | 2374 | 2449  |                    |        |        |             |                   |      |      |       |
|                |                        | 30  | 2131 | 2231 | 2322  |                    |        |        |             |                   |      |      |       |
|                |                        | 35  | 1937 | 2044 | 2146  |                    |        |        |             |                   |      |      |       |
|                |                        | 40  | 1705 | 1794 | 1900  |                    |        |        |             |                   |      |      |       |
|                |                        | 45  | 1447 | 1535 | 1615  |                    |        |        |             |                   |      |      |       |
|                |                        | 50  | 1189 | 1273 | 1310  |                    |        |        |             |                   |      |      |       |
|                |                        | 55  | 941  | 999  | 1042  |                    |        |        |             |                   |      |      |       |
|                |                        | 60  | 706  | 728  | 789   |                    |        |        |             |                   |      |      |       |
|                |                        | 65  | 525  | 481  | 572   |                    |        |        |             |                   |      |      |       |
|                |                        | 70  | 407  | 311  | 407   |                    |        |        |             |                   |      |      |       |
|                |                        | 75  | 325  | 228  | 295   |                    |        |        |             |                   |      |      |       |
|                |                        | 80  | 243  | 183  | 214   |                    |        |        |             |                   |      |      |       |
|                |                        | 85  | 128  | 102  | 110   |                    |        |        |             |                   |      |      |       |
|                |                        | Coefficients of Utilization <sub>pcc</sub> 80 70 50 |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | pw 70 50 30 70 50 30 50 30                          |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | RCR   |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 0 90 90 90 88 88 88 83 83                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 1 82 79 76 81 78 75 75 71                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 2 76 69 65 73 68 64 66 63                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 3 69 61 56 68 60 56 58 54                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 4 64 56 50 63 55 48 53 47                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 5 58 50 44 57 48 42 47 42                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 6 55 46 39 54 45 39 42 38                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 7 51 40 34 50 40 34 40 34                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 8 47 38 32 46 36 32 36 30                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 9 45 34 28 44 34 28 34 28                           |      |      |       |                    |        |        |             |                   |      |      |       |
|                |                        | 10 41 32 27 40 32 26 30 26                          |      |      |       |                    |        |        |             |                   |      |      |       |

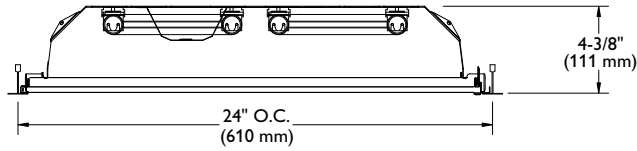
Comparative yearly lighting energy cost per 1000 lumens – \$3.33 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

# 2SP SP troffer recessed 2x2

T5, T5HO, or T8

## Dimensions



## Photometry

### SP 2x2 2 Lamp FB032T8/6

Efficiency – 76.5%

LER – 69

TER – 61

|   |                        | Candlepower |      |      |       | Light Distribution                                   |        |        |             | Average Luminance |      |      |       |    |  |    |  |
|---|------------------------|-------------|------|------|-------|--|--------|--------|-------------|-------------------|------|------|-------|----|--|----|--|
| Catalog No.   | 2SPG231U6R-FS01-1/2-EB | Angle       | End  | 45   | Cross | Degrees  | Lumens | % Lamp | % Luminaire | Angle             | End  | 45'  | Cross |    |  |    |  |
| Test No.  | 22784P                 | 0           | 1752 | 1752 | 1752  | 0-30   | 1370   | 24.5   | 32.0        | 45                | 4453 | 4746 | 5062  |    |  |    |  |
| S/MH  | 1.3                    | 5           | 1738 | 1747 | 1751  | 0-40   | 2222   | 39.7   | 51.8        | 55                | 3620 | 3919 | 4185  |    |  |    |  |
| Lamp Type   | FB032T8/6              | 10          | 1710 | 1727 | 1739  | 0-60   | 3638   | 65.0   | 84.8        | 65                | 2775 | 2591 | 3097  |    |  |    |  |
| Lumens/Lamp   | 2800                   | 15          | 1665 | 1695 | 1719  | 0-90   | 4287   | 76.5   | 100.0       | 75                | 2766 | 1952 | 2566  |    |  |    |  |
| Ballast Factor  | 0.88                   | 20          | 1598 | 1647 | 1687  |  |        |        |             | 85                | 3122 | 2602 | 2899  |    |  |    |  |
| Input Watts   | 55                     | 25          | 1511 | 1578 | 1635  | Coefficients of Utilization                          |        |        |             |                   |      |      |       |    |  |    |  |
| Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.48</b> based on 3000 hrs. and \$.08 pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                        | 30          | 1403 | 1488 | 1558  | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 35          | 1283 | 1371 | 1444  | pcc  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 40          | 1143 | 1211 | 1295  | pw   |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 45          | 972  | 1036 | 1105  | RCR  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 50          | 799  | 867  | 914   | 0  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 55          | 641  | 694  | 741   | 1  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 60          | 484  | 510  | 570   | 2  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 65          | 362  | 338  | 404   | 3  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 70          | 278  | 217  | 286   | 4  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 75          | 221  | 156  | 205   | 5  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 80          | 166  | 127  | 149   | 6  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        | 85          | 84   | 70   | 78    | 7  |        |        |             |                   |      |      |       |    |  |    |  |
|   |                        |             |      |      |       |  |        | 80     |             |                   |      | 70   |       |    |  | 50 |  |
|   |                        |             |      |      |       | 70   |        |        |             | 50                |      |      |       | 30 |  |    |  |
|   |                        |             |      |      |       | 91   |        |        |             | 89                |      |      |       | 89 |  |    |  |
|   |                        |             |      |      |       | 83   |        |        |             | 81                |      |      |       | 77 |  |    |  |
|   |                        |             |      |      |       | 77   |        |        |             | 70                |      |      |       | 66 |  |    |  |
|   |                        |             |      |      |       | 70   |        |        |             | 63                |      |      |       | 56 |  |    |  |
|   |                        |             |      |      |       | 65   |        |        |             | 56                |      |      |       | 50 |  |    |  |
|   |                        |             |      |      |       | 59   |        |        |             | 51                |      |      |       | 44 |  |    |  |
|   |                        |             |      |      |       | 56   |        |        |             | 46                |      |      |       | 39 |  |    |  |
|   |                        |             |      |      |       | 52   |        |        |             | 41                |      |      |       | 34 |  |    |  |
|   |                        |             |      |      |       | 47   |        |        |             | 38                |      |      |       | 32 |  |    |  |
|   |                        |             |      |      |       | 45   |        |        |             | 34                |      |      |       | 28 |  |    |  |
|   |                        |             |      |      |       | 41   |        |        |             | 33                |      |      |       | 27 |  |    |  |

