

# PHILIPS Day-Brite CFI

Recessed

TG8 troffer 1x4

T5, T5HO, T8



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

The Philips Day-Brite / Philips CFI TG8 troffer is a quality low-profile recessed luminaire with specification features. It is designed around modern lamps and electronic ballasts.

## Ordering guide

Example: 1TG8232-01-UNV-1/2-EBLHE-LPT835HL

| Width | Family       | Ceiling Type | Housing               | No. of Lamps<br>(not included) | Lamp Type                                               | Door Frame                                            | Lens                                                                                                                                                                                                                                                                                                                                                                   | Door Finish              | Voltage                                             | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|--------------|--------------|-----------------------|--------------------------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | T            | G            | 8                     |                                |                                                         |                                                       |                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1' 1' | T TG troffer | G Grid       | 8 Low profile housing | 1<br>2<br>3 (except 54HO)      | 28 28WT5 (46")<br>32 32WT8 (48")<br>54HO 54W T5HO (46") | BLANK FA Flat Steel<br>RA Aluminum Regressed Aluminum | 01 Pattern 12 prismatic acrylic K12, .125" nominal<br>12 K12, .125" nominal<br>19 K19, .156" nominal<br>21 Pattern 12, .125" nominal<br>30 1/2"x1/2"x1/2" silver louver, polystyrene<br>34 1-1/2"x1-1/2"x1" silver louver, polystyrene<br>52 3/4"x3/4"x1/2" silver louver, polystyrene<br>PL3 ALP Para-lite3 high efficiency 3/4"x3/4"x1/2" silver louver, polystyrene | BLANK B White Black Door | 120<br>277<br>347<br>UNV Universal Voltage 120-277V | 1/1 One 1-lamp ballast<br>1/2 One 2-lamp ballast<br>1/3 One 3-lamp ballast<br>1/21 2-lamp & 1-lamp ballasts<br>EB Electronic ballast, <10% THD, std. ballast factor<br>EB10R 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>EBD Electronic dimming ballast, customer specified<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>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" single flex, 5 wire 18 gauge 6' for dimmable luminaires<br>GLR Fusing, fast blow |

## Accessories

**FMA14** 1'x4' "F" mounting frame for NEMA "F" mounting  
**GCP** Grid clip pack (1'x4')

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## Construction/finish

- Quality recessed troffer for the following "NEMA" ceiling types: NEMA "G"-Grid, NEMA "NFS"-G"-Narrow Faced Slot Grid, NEMA "GR"-Grid Regressed, NEMA "NFG"-Narrow Faced Grid
- Field assembled and installed "F" mounting Frame adapts fixture for use in NEMA "F" ceilings requiring flanges.
- Housing is constructed of pre-painted steel.
- Troffer body die-formed CR steel with reinforcing ribs for rigidity.
- 7/8" K.O.s provided in each end cap and quick wire access plate in housing top with two 7/8" K.O.s provided.
- Snap on wireway cover.

- T-bar clips are not integral to the luminaire, and must be ordered separately.
- Low profile body minimizes clearance required.
- All units have wire hanger tabs for independent wire suspension.

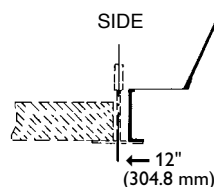
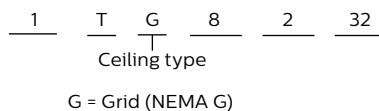
## Electrical

- UL listed, suitable for damp locations.
- Self-contained fluorescent emergency power packs can be incorporated. UL listed for dry locations.
- No exposed internal wiring.

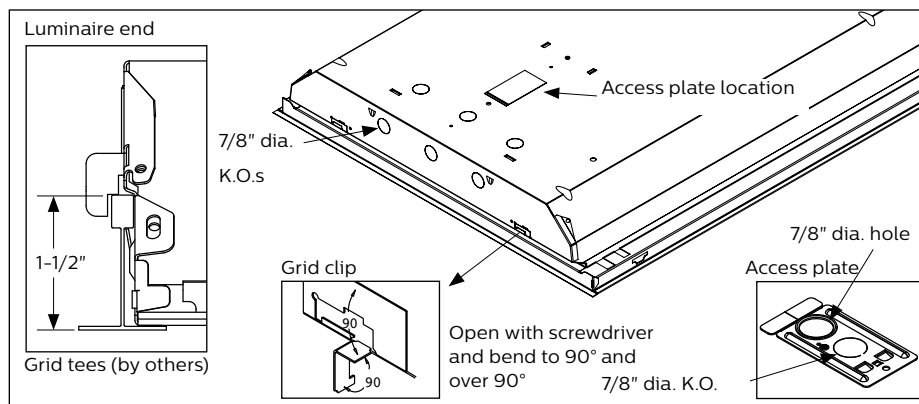
## Enclosure

- Flat steel door frame has mitered corners.
- Hinged and latched (from either side) door frame.
- Mechanically designed interlocks eliminate light leaks, no gaskets are needed.
- White (standard) or black (optional) door frames available.
- Diffuser is clear color stabilized 100% prismatic acrylic.

## Ceiling Configuration



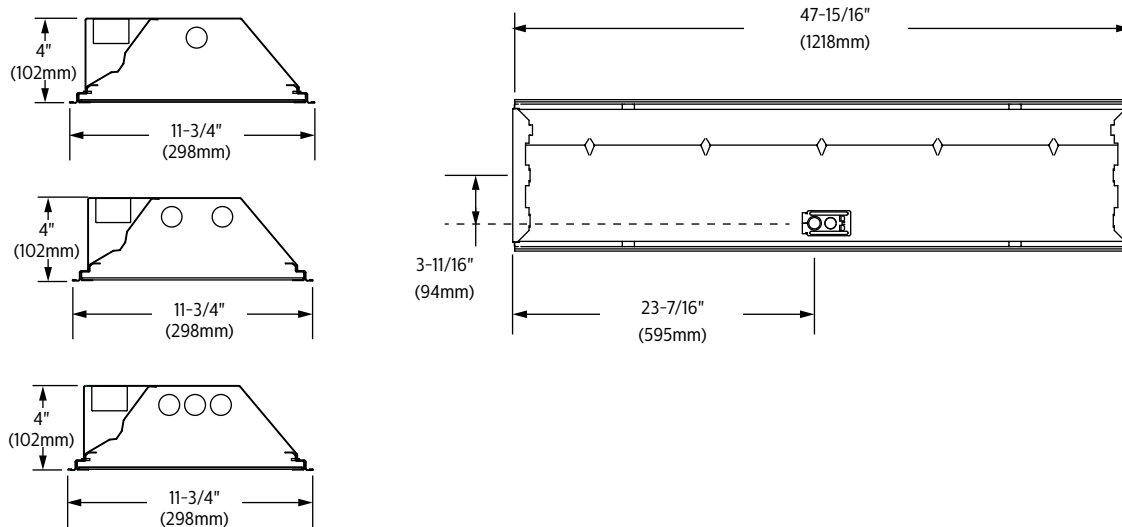
(NEMA Type G)  
Lay-in acoustical  
ceilings using exposed  
grid suspension, with  
tees for luminaires on  
12" x 48" spacing.



# 1TG8 TG8 troffer 1x4

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## Dimensions



## Photometry

### TG8 troffer 1x4 2 Lamp T8

Efficiency – 69.2%

LER – 68

TER – 61

| Catalog No.    |  | Candlepower |      |      |       | Light Distribution                                   |        |        |             | Average Luminance |      |      |       |
|----------------|--|-------------|------|------|-------|------------------------------------------------------|--------|--------|-------------|-------------------|------|------|-------|
| Test No.       |  | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Lamp | % Luminaire | Angle             | End  | 45'  | Cross |
| S/MH           |  | 0           | 1732 | 1732 | 1732  | 0-30                                                 | 1363   | 22.0   | 31.8        | 45                | 5170 | 4977 | 4596  |
| Lamp Type      |  | 5           | 1722 | 1723 | 1728  | 0-40                                                 | 2219   | 35.8   | 51.8        | 55                | 4223 | 3933 | 3382  |
| Lumens/Lamp    |  | 15          | 1668 | 1677 | 1679  | 0-60                                                 | 3639   | 58.7   | 84.9        | 65                | 3154 | 2738 | 2479  |
| Ballast Factor |  | 25          | 1545 | 1553 | 1561  | 0-90                                                 | 4290   | 69.2   | 100         | 75                | 2788 | 2077 | 1951  |
| Input Watts    |  | 35          | 1352 | 1353 | 1335  |                                                      |        |        |             | 85                | 3838 | 2270 | 1354  |
|                |  | 45          | 1080 | 1039 | 960   | Coefficients of Utilization                          |        |        |             |                   |      |      |       |
|                |  | 55          | 715  | 666  | 573   | Effective Floor Cavity Reflectance 20 Per (Pfc=0.20) |        |        |             |                   |      |      |       |
|                |  | 65          | 394  | 342  | 309   | pcc                                                  | 80     | 70     | 50          |                   |      |      |       |
|                |  | 75          | 213  | 159  | 149   | pw                                                   | 70     | 50     | 30          | 70                | 50   | 30   | 50    |
|                |  | 85          | 99   | 58   | 35    | RCR                                                  |        |        |             |                   |      |      |       |
|                |  |             |      |      |       | 0                                                    | 81     | 81     | 81          | 80                | 80   | 80   | 77    |
|                |  |             |      |      |       | 1                                                    | 76     | 72     | 69          | 73                | 70   | 68   | 68    |
|                |  |             |      |      |       | 2                                                    | 68     | 64     | 59          | 68                | 63   | 58   | 59    |
|                |  |             |      |      |       | 3                                                    | 64     | 56     | 52          | 61                | 56   | 51   | 54    |
|                |  |             |      |      |       | 4                                                    | 58     | 51     | 45          | 56                | 50   | 45   | 47    |
|                |  |             |      |      |       | 5                                                    | 54     | 46     | 40          | 53                | 45   | 40   | 44    |
|                |  |             |      |      |       | 6                                                    | 50     | 40     | 35          | 48                | 40   | 34   | 40    |
|                |  |             |      |      |       | 7                                                    | 46     | 38     | 32          | 46                | 36   | 32   | 35    |
|                |  |             |      |      |       | 8                                                    | 44     | 34     | 28          | 41                | 34   | 28   | 33    |
|                |  |             |      |      |       | 9                                                    | 40     | 32     | 26          | 40                | 30   | 26   | 30    |
|                |  |             |      |      |       | 10                                                   | 38     | 28     | 23          | 36                | 28   | 23   | 28    |

Comparative yearly lighting energy cost per 1000 lumens – \$3.53 based on 3000 hrs. and \$.08 pwr KWH.

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

# 1TG8 TG8 troffer 1x4

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## Photometry

### TG8 troffer 1x4 3 Lamp T8

Efficiency – 62.1%

LER – 62

TER – 56

|                                                                                                                                                                                                                                                                                        |            | Candlepower |      |      |       | Light Distribution                                   |        |        |             | Average Luminance |      |      |       |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------|------|-------|------------------------------------------------------|--------|--------|-------------|-------------------|------|------|-------|----|
| Catalog No.                                                                                                                                                                                                                                                                            | 1TG8332-01 | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Lamp | % Luminaire | Angle             | End  | 45'  | Cross |    |
| Test No.                                                                                                                                                                                                                                                                               | 33911      | 0           | 2377 | 2377 | 2377  | 0-30                                                 | 1865   | 20.1   | 32.3        | 45                | 7030 | 6656 | 6010  |    |
| S/MH                                                                                                                                                                                                                                                                                   | 1.2        | 5           | 2364 | 2366 | 2368  | 0-40                                                 | 3028   | 32.6   | 52.4        | 55                | 5729 | 5141 | 4294  |    |
| Lamp Type                                                                                                                                                                                                                                                                              | F32T8      | 15          | 2287 | 2299 | 2294  | 0-60                                                 | 4924   | 52.9   | 85.3        | 65                | 4230 | 3536 | 3144  |    |
| Lumens/Lamp                                                                                                                                                                                                                                                                            | 3100       | 25          | 2118 | 2122 | 2119  | 0-90                                                 | 5778   | 62.1   | 100         | 75                | 3711 | 2704 | 2519  |    |
| Ballast Factor                                                                                                                                                                                                                                                                         | .83        | 35          | 1844 | 1835 | 1788  |                                                      |        |        |             | 85                | 5122 | 3049 | 1858  |    |
| Input Watts                                                                                                                                                                                                                                                                            | 77         | 45          | 1468 | 1390 | 1255  | Coefficients of Utilization                          |        |        |             |                   |      |      |       |    |
| <p>Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.87</b> based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> |            | 55          | 970  | 871  | 727   | Effective Floor Cavity Reflectance 20 Per (Pfc=0.20) |        |        |             |                   |      |      |       |    |
|                                                                                                                                                                                                                                                                                        |            | 65          | 528  | 441  | 392   | pcc                                                  | 80     |        |             | 70                |      |      | 50    |    |
|                                                                                                                                                                                                                                                                                        |            | 75          | 284  | 207  | 193   | pw                                                   | 70     | 50     | 30          | 70                | 50   | 30   | 50    | 30 |
|                                                                                                                                                                                                                                                                                        |            | 85          | 132  | 78   | 48    | RCR                                                  |        |        |             |                   |      |      |       |    |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 0                                                    | 73     | 73     | 73          | 71                | 71   | 71   | 68    | 68 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 1                                                    | 68     | 65     | 63          | 66                | 64   | 61   | 60    | 58 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 2                                                    | 61     | 57     | 54          | 60                | 56   | 53   | 54    | 51 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 3                                                    | 56     | 51     | 46          | 56                | 50   | 46   | 48    | 45 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 4                                                    | 53     | 46     | 40          | 51                | 45   | 40   | 44    | 39 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 5                                                    | 48     | 40     | 35          | 47                | 40   | 35   | 39    | 34 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 6                                                    | 45     | 36     | 32          | 44                | 36   | 32   | 35    | 30 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 7                                                    | 41     | 34     | 28          | 40                | 34   | 28   | 33    | 28 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 8                                                    | 39     | 30     | 26          | 38                | 30   | 26   | 29    | 26 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 9                                                    | 36     | 28     | 23          | 35                | 28   | 23   | 28    | 23 |
|                                                                                                                                                                                                                                                                                        |            |             |      |      |       | 10                                                   | 34     | 27     | 22          | 34                | 26   | 22   | 26    | 20 |



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)

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