

# Hazardous X12 TL Troffers

1x4, 2x2 and 2x4 Hazardous Location LED Luminaires

- **Suitable For Use In Class 1 Division 2 Groups A, B, C, & D Installations**
- **IP65 Rating**
- **ETL listed for wet locations**
- **Recessed housing suitable for tbar grid and hardlid ceiling installations**
- **0-10V dimming down to 10% standard**
- **Made in the USA by a Family Owned US Corporation**



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## ORDERING GUIDE

Series Installation Type Material Size Source CCT Voltage Options

### TLX12

| Series | Installation Type   | Material                                       | Size                 | Source | CCT  | Voltage                      | Options  |
|--------|---|--|----------------------|--------|--|------------------------------|--|
| TLX12  | R: Recessed (Suitable for both Flange and Grid Installations) | 3: White 430 SS Hsg. & Polished 304 SS Door    | 1x4: 1' x 4' Housing | 2/LEDR | 80 CRI:<br>830 = 3000K CCT<br>835 = 3500K CCT<br>840 = 4000K CCT<br>850 = 5000K CCT<br><br>90 CRI:<br>935 = 3500K CCT<br>940 = 4000K CCT | 120V<br>277V<br>UNV<br>347V* | H/FC: Fuse & Holder (One Supplied Per Circuit)<br>2/ED: Two Drivers (Two Circuits)<br>EDL: -40F Electronic Driver<br>H/EM: 10W Integral LED EM (Specify Input Voltage)<br>WHT: White Finished Door & HSG<br>LEX: .125" Prismatic Polycarbonate<br>A19: .156" Prismatic P19 Pattern Clear Acrylic<br>HIA: .140" High Impact P12 Pattern Clear Acrylic<br>TG: .156" Prismatic C73 Tempered Glass<br>PxL: Programmed to User Specified Lumen Value.∞∞<br>PxW: Programmed to User Specified Wattage Value.∞∞<br>WHIP: Must Specify Length and Wire Qty |
|        |   | 4: White AL Hsg. & Polished 304 SS Door        | 2x2: 2' x 2' Housing | 2/LEDH |  |                              |  |
|        |   | 5: White AL Hsg. & White AL Door               |                      | 2/LEDR |  |                              |  |
|        |   | 7: White AL Hsg. & White CRS Door              | OR                   | 2/LEDH |  |                              |  |
|        |   |  | 2x4: 2' x 4' Housing | 3/LEDR |  |                              |  |
|        |   |  |                      | 3/LEDH |  |                              |  |
|        | S: Surface  | 1: White CRS Hsg. & White CRS Door             | 1x4: 1' x 4' Housing | 2/LEDR | 935 = 3500K CCT<br>940 = 4000K CCT   | 120V<br>277V<br>UNV<br>347V* | H/FC: Fuse & Holder (One Supplied Per Circuit)<br>2/ED: Two Drivers (Two Circuits)<br>EDL: -40F Electronic Driver<br>H/EM: 10W Integral LED EM (Specify Input Voltage)<br>WHT: White Finished Door & HSG<br>LEX: .125" Prismatic Polycarbonate<br>A19: .156" Prismatic P19 Pattern Clear Acrylic<br>HIA: .140" High Impact P12 Pattern Clear Acrylic<br>TG: .156" Prismatic C73 Tempered Glass<br>PxL: Programmed to User Specified Lumen Value.∞∞<br>PxW: Programmed to User Specified Wattage Value.∞∞<br>WHIP: Must Specify Length and Wire Qty |
|        |   | 2: White CRS Hsg. & Polished 304 SS Door       | 2x2: 2' x 2' Housing | 2/LEDH |  |                              |  |
|        |   | 3: Polished 304 SS Hsg. & Polished 304 SS Door |                      | 2/LEDR |  |                              |  |
|        |   | 4: White AL Hsg. & Polished 304 SS Door        | OR                   | 2/LEDH |  |                              |  |
|        |   | 5: White AL Hsg. & White AL Door               | 2x4: 2' x 4' Housing | 3/LEDR |  |                              |  |
|        |   | 7: White AL Hsg. & White CRS Door              |                      | 3/LEDH |  |                              |  |

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## SPECIFICATIONS

**HOUSING:** One piece, hole free, robotically seam welded housing has flattened, silicone sealed knockouts for a superior seal. Recessed housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel. Surface housings are available in .040" 3003 Aluminum, 20Ga 304 Stainless Steel, or 20Ga 1008 Cold Rolled Steel.

**DOOR FRAME:** One piece inset door frame with seam welds regressing into housing to allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and secures to housing with captive stainless steel pan head screws. Available in .040" 3003 Powder coated Alum. , 20Ga 304 Polished SS, or 18Ga 1008 Powder coated CRS.

**GASKETS:** NSF Listed closed cell microcellular extruded KleanLock SealPro gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

**LENS:** High durability .135" thick virgin acrylic with P12 prismatic pattern inverted. Sealed to door with NSF listed RTV silicone. See "Options" for other choices.

**LEDS:** Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

**DRIVERS:** Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% for most LED configurations. They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications.

**REFLECTOR:** Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

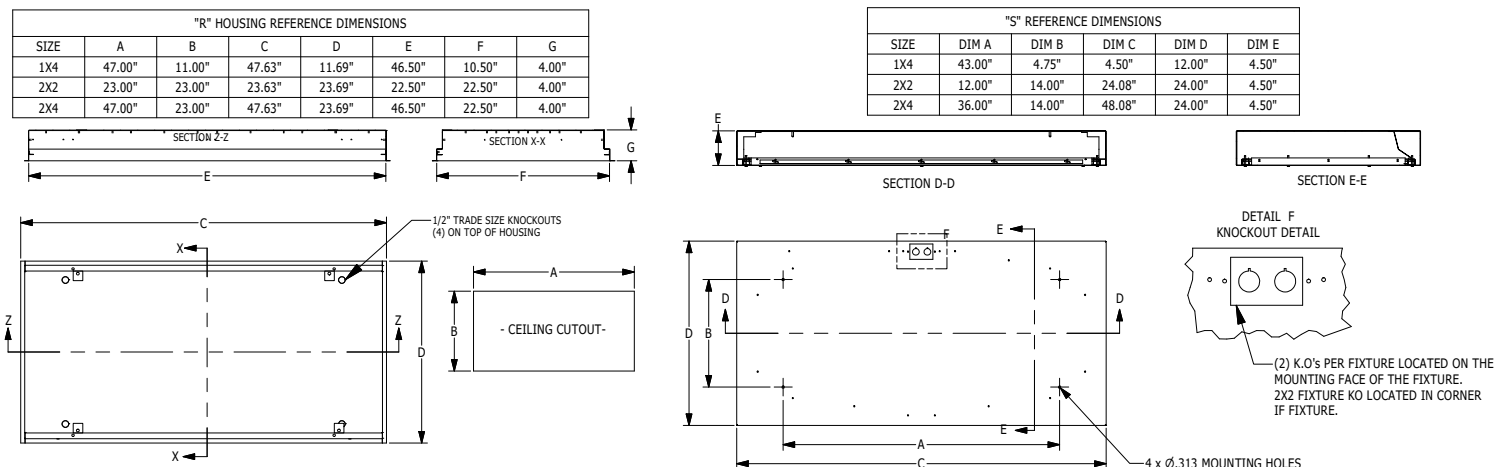
**INSTALL RECESSED:** One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened and silicone sealed knockouts.

**INSTALL SURFACE:** Four .312" dia. mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened and silicone sealed knockouts.

**FINISH:** Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes and surface housings are satin polished unless option WHT is chosen.

**LISTINGS:** Listed for Class I Division II Groups A,B,C & D hazardous locations. IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosesdowns. ETL listed per UL\_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 100 through Class 100,000 cleanspaces. NSF2 Listed for Non-Food Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

## PRODUCT DRAWINGS



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## ENERGY DATA

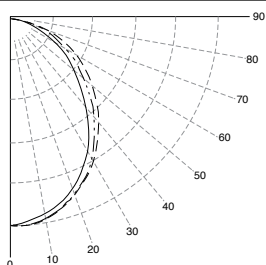
| HAZ CLASS 1 DIVISION 2 INSET-FGS-LED TROFFER (APPROX <sup>1</sup> LUMENS DELIVERED) |               |                        |                    |                       |              |                       |                    |                       |                           |                        |                  |
|---|---------------|------------------------|--------------------|-----------------------|--------------|-----------------------|--------------------|-----------------------|---------------------------|------------------------|------------------|
| ENCLOSURE SIZE  | LIGHT PACKAGE | 80 CRI (3000K - 5000K) |                    |                       |              | 90 CRI (3500K, 4000K) |                    |                       |                           | HAZ LOCATION TEMP CODE | STANDARD DIMMING |
|   |               | LUMENS                 | WATTS <sup>2</sup> | EFFICACY <sup>3</sup> | MAX AMB TEMP | LUMENS                | WATTS <sup>2</sup> | EFFICACY <sup>3</sup> | MAX AMB TEMP <sup>4</sup> |                        |                  |
| 1X4   | 2LEDR         | 7,955                  | 73                 | 109                   | 40°C (104°F) | 5,680                 | 62                 | 92                    | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 1X4   | 2LEDH         | 11,468                 | 103                | 112                   | 40°C (104°F) | 12,352                | 146                | 85                    | 35°C (95°F)               | T4A                    | 0-10V 10%        |
| 2X2   | 2LEDR         | 4,190                  | 37                 | 112                   | 40°C (104°F) | 2,832                 | 32                 | 89                    | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 2X2   | 3LEDR         | 6,290                  | 55                 | 114                   | 40°C (104°F) | 4,313                 | 48                 | 90                    | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 2X2   | 2LEDH         | 5,560                  | 51                 | 109                   | 40°C (104°F) | 5,414                 | 73                 | 74                    | 35°C (95°F)               | T4A                    | 0-10V 10%        |
| 2X2   | 3LEDH         | 8,450                  | 77                 | 110                   | 40°C (104°F) | 8,604                 | 110                | 79                    | 35°C (95°F)               | T4A                    | 0-10V 10%        |
| 2X4   | 4LEDR         | 8,391                  | 73                 | 115                   | 40°C (104°F) | 5,383                 | 62                 | 87                    | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 2X4   | 2LEDR         | 9,040                  | 74                 | 122                   | 40°C (104°F) | 6,429                 | 62                 | 104                   | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 2X4   | 3LEDR         | 13,560                 | 111                | 122                   | 40°C (104°F) | 9,649                 | 94                 | 103                   | 40°C (104°F)              | T4A                    | 0-10V 10%        |
| 2X4   | 2LEDH         | 14,450                 | 103                | 140                   | 40°C (104°F) | 12,835                | 148                | 87                    | 35°C (95°F)               | T4A                    | 0-10V 10%        |
| 2X4   | 3LEDH         | 21,220                 | 153                | 139                   | 40°C (104°F) | 19,254                | 221                | 87                    | 35°C (95°F)               | T4A                    | 0-10V 10%        |
| 2X4   | 4LEDR         | 18,080                 | 146                | 124                   | 40°C (104°F) | 12,569                | 124                | 101                   | 40°C (104°F)              | T4A                    | 0-10V 10%        |

- <sup>1</sup> DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- <sup>2</sup> WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- <sup>3</sup> EFFICACY CALCULATED USING 4000K CCT DATA.
- <sup>4</sup> MAX AMBIENT TEMP RATING AS SPECIFIED ON SAFETY REPORT, NON-IC INSTALLATON.

## PHOTOMETRICS

### TL-R-5-1X4-2/LEDH-840-UNV

Report No: 20897  
 Total Lumens: 11,468  
 Wattage: 102.54  
 Efficacy: 111.8 (Lumens Per Watt)  
 Fixture Size: 1'x4'  
 Key:  
 - - - - - 0  
 . . . . . 45  
 \_\_\_\_\_ 90



### TL-R-5-1x4-2/LEDR-840-UNV

Report No: 12406658.08A  
 Total Lumens: 7,955  
 Wattage: 72.97  
 Efficacy: 109 (Lumens Per Watt)  
 Fixture Size: 1'x4'  
 Key:  
 - - - - - 0  
 . . . . . 45  
 \_\_\_\_\_ 90

