

# Behavioral Health Troffers

Anti-Ligature 2x2 and 2x4 LED Basket Luminaires for Behavioral Health Facilities.

- **IP65 Rated**
- **Indirect Basket for Even Illumination**
- **Anti-Ligature Zero Clearance Door Frame Design**
- **Polycarbonate Lensing and Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**
- **Recessed Housing Suitable for Grid or Flange Installation.**



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## ORDERING GUIDE

| Series | Installation Type                                                   | Material                                                                                             | Size                                                                   | Source               | CCT                                                                                                                                               | Voltage                     | Lens: LED Side/ Room Side                                                                                                               | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VL     |                                                                     |                                                                                                      |                                                                        |                      |                                                                                                                                                   |                             |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Series | Installation Type                                                   | Material                                                                                             | Size                                                                   | Source               | CCT                                                                                                                                               | Voltage                     | Lens:                                                                                                                                   | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VL     | RB: Recessed Basket<br>(Suitable for Grid or Hardlid Installations) | 1: White 18Ga. CRS Hsg. & White 18Ga. CRS Door<br><br>2: White 18Ga. CRS Hsg. & Polished 304 SS Door | 2x2: Nominal 2'x2' Housing<br><br>OR<br><br>2x4: Nominal 2'x4' Housing | 2/LEDR<br><br>3/LEDR | 83 CRI:<br><br>830 = 3000K CCT<br>835 = 3500K CCT<br>840 = 4000K CCT<br>850 = 5000K CCT<br><br>90+ CRI:<br><br>935 = 3500K CCT<br>940 = 4000K CCT | 120V<br><br>277V<br><br>UNV | Choose One Flat Lens<br><br>1: .125" Clear Flat Polycarbonate<br>2: .187" Clear Flat Polycarbonate<br>3: .250" Clear Flat Polycarbonate | FC: Fuse & Holder (One Supplied Per Circuit)<br>2/ED: Two Drivers (Two Circuits)<br>EM10: 10W Integral LED EM (Specify Input Voltage)<br>SW: Wet Locatoin Hub Supplied (not installed)<br>PxL: Programmed to User Specified Lumen Value.φφφ<br>PxW: Programmed to User Specified Wattage Value.φφφ<br>10KV: 10KV Parallel Surge Protection<br>(One Supplied Per Circuit)<br>WHIP: Must Specify Length and Wire Qty<br>WHT: White Finished SS Door<br>TPWHT: White Painted Torx Tamperproof Fasteners<br>YMB: Optional Yoke Mounting Bracket<br>AH: Allen Head SS Tamperproof Fasteners |

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## SPECIFICATIONS

**HOUSING:** One piece, hole free, robotically seam welded housing has flattened, knockouts for a superior seal. Housings are available in 18Ga. Cold Rolled Steel with White Powdercoat finish.

**DOOR FRAME:** One piece zero clearance interference fit doorframe regressed into housing and desigend to prevent ligature. Secured by captive torx tamperproof fasteners and hinged to housing with aircraft cables. Available in Powdercoated 18Ga steel OR Polished 304 Stainless steel.

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

**LENS:** High durability minimum .125" thick clear polycarbonate. Factory sealed to door with silicone. Other options available.

**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:** Specially designed perforated reflector for indirect even fixture illumination.

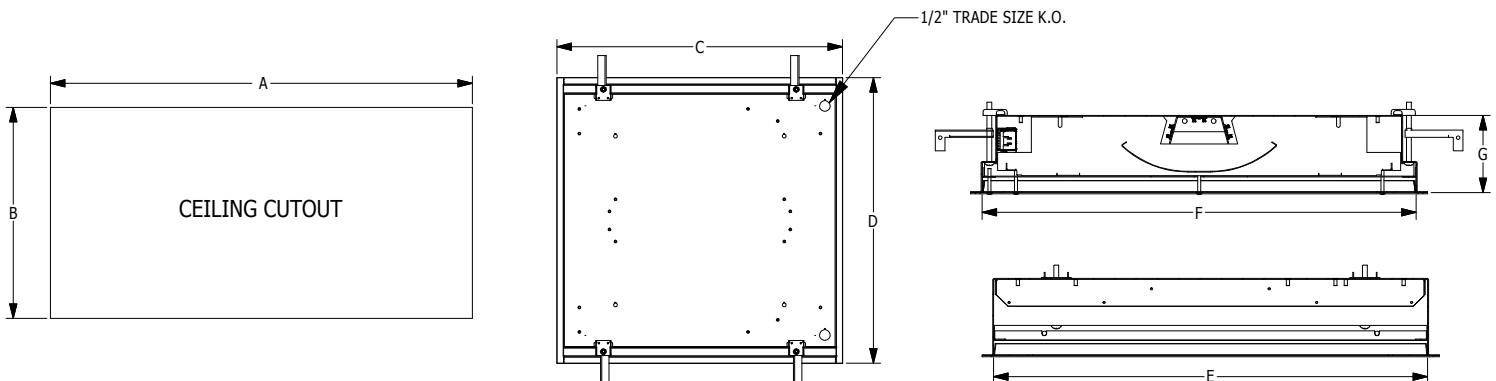
**INSTALL RECESSED:** One fixture suitable for Grid and Flanged installation. Accommodates 1" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts. Yoke Mount Optional.

**FINISH:** Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all housings.

**LISTINGS:** IP65 rated for dust and water ingress. ETL listed per UL\_1598 for wet locations. Chicago Plenum Rated. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

## PRODUCT DRAWINGS

| RECESSED BASKET REFERENCE DIMENSIONS |        |        |        |        |        |        |       |
|--------------------------------------|--------|--------|--------|--------|--------|--------|-------|
| SIZE                                 | A      | B      | C      | D      | E      | F      | G     |
| 2X2                                  | 23.00" | 23.00" | 23.69" | 23.69" | 22.50" | 22.50" | 4.00" |
| 2X4                                  | N/A    | N/A    | N/A    | N/A    | N/A    | N/A    | N/A   |



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## ENERGY DATA

| INDIRECT POLY INSET-FGRS-LED TROFFER (APPROX <sup>1</sup> LUMENS DELIVERED) |               |                        |                    |                       |              |                       |                    |                       |                           |                  |
|-----------------------------------------------------------------------------|---------------|------------------------|--------------------|-----------------------|--------------|-----------------------|--------------------|-----------------------|---------------------------|------------------|
| ENCLOSURE SIZE                                                              | LIGHT PACKAGE | 80 CRI (3000K - 5000K) |                    |                       |              | 90 CRI (3500K, 4000K) |                    |                       |                           | STANDARD DIMMING |
|                                                                             |               | LUMENS <sup>1</sup>    | WATTS <sup>2</sup> | EFFICACY <sup>3</sup> | MAX AMB TEMP | LUMENS <sup>1</sup>   | WATTS <sup>2</sup> | EFFICACY <sup>3</sup> | MAX AMB TEMP <sup>4</sup> |                  |
| 2X2                                                                         | 2LEDR         | 2,500                  | 30                 | 83                    | 40°C (104°F) | 2,025                 | 30                 | 68                    | 40°C (104°F)              | 0-10V 1%         |
| 2X2                                                                         | 3LEDR         | 3,000                  | 42                 | 71                    | 40°C (104°F) | 2,430                 | 42                 | 58                    | 40°C (104°F)              | 0-10V 1%         |
| 2X4                                                                         | 2LEDR         | 5,000                  | 60                 | 83                    | 40°C (104°F) | 4,050                 | 60                 | 68                    | 40°C (104°F)              | 0-10V 1%         |
| 2X4                                                                         | 3LEDR         | 6,000                  | 84                 | 71                    | 40°C (104°F) | 4,860                 | 84                 | 58                    | 40°C (104°F)              | 0-10V 1%         |

<sup>1</sup> DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH .125" LENS

<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, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION

## PHOTOMETRICS

### VL-RB-1-2X2-3/LEDR-840-UNV

Report No: 20386.0

Total Lumens: 3,047

Wattage: 42.474

Efficacy: 71.7 (Lumens Per Watt)

Fixture Size: 2'x2'

Key:

----- 0  
- - - - - 45  
————— 90

