

Behavioral Health Troffers

Ligature Resistant 1x4, 2x2 and 2x4 Surface Mounted LED Luminaires for Behavioral Health Facilities.

- **IP66 Rated**
- **Heavy-Gauge Overlapping Door Frame Extends to the Edge of Fixture to Eliminate Gaps That Can Be Used For Harm**
- **Polycarbonate Lensing & Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**



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ORDERING GUIDE

| Series | Material | Size | Row Qty. | LED Type | CCT/CRI | Voltage | Outer Lens/Inner Lens | Options | |
|--------------|---|-----------------|----------|--------------|---|---------|---|--|--|
| BHO-S | | | | | | | | | |
| Series | Material | Size | Row Qty. | Light Source | | Voltage | Optics LED Side / Room Side | Options | |
| BHO-S | 1 White 20Ga. CRS Hsg. & White 14Ga. CRS Door | 1x4 1x4 Housing | 1 | LEDR | 83 CRI: | 120V | Prismatic 1 .125" P12 Polycarbonate 2 .140" P12 High Impact Acrylic 3 .156" P12 Polycarbonate 4 .125" Flat Frosted Acrylic Non-Prismatic 5 .125" Clear Flat Polycarbonate 6 .187" Clear Flat Polycarbonate 7 .250" Clear Flat Polycarbonate 8 .375" Clear Flat Polycarbonate *Select up to 1 layer of prismatic lensing | FC Fuse & Holder (One Supplied Per Circuit) 2/ED Two Drivers/Two Circuits EM10 ** 10W Integral LED EM (Specify Input Voltage) EM20 20W Remote LED EM (Specify Input Voltage) SW Wet Location Hub Supplied (not installed) PxL * Programmed to User Specified Lumen Value. PxW * Programmed to User Specified Wattage Value. 10KV 10KV Parallel Surge Protection (One Supplied Per Circuit) GTD Generator Transfer Device WHIP Must Specify Length and Wire Qty AH Allen Head SS Tamperproof Fasteners TPWHT White Painted Torx Tamper Resistant Fasteners | |
| | | | 2 | LEDH | 830 3000K | 277V | | | |
| | 2 White 20Ga. CRS Hsg. & White 16Ga. 430 SS Door | 2x2 2x2 Housing | 2 | LEDHF | 835 3500K | UNV | | | |
| | | | 3 | | 840 4000K | 347V* | | | |
| | 3 White 20Ga. 430 SS Hsg. & White 16Ga. 430 SS Door | 2x4 2x4 Housing | 3 | | 850 5000K | | | | |
| | | | 4 | | | | | | |
| | | | | | 90+ CRI: | | | | |
| | | | | | 935 3500K | | | | |
| | | | | | 940 4000K | | | | |
| | | | | | 950 5000K | | | | |
| | | | | | Note: Additionally available in 95+ CRI with Seoul Sun-Like LEDs. Consult factory for more information. | | | | |

Ordering Notes, If Applicable

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Surface housings are available in 20Ga 430 Stainless Steel, or 20Ga Cold Rolled Steel.

DOOR FRAME: One piece heavy gauge overlapping door frame is available in either 14Ga Cold rolled steel or 16 Ga 430 Stainless Steel. Mechanically secures to housing using captive flush head torx tamper resistant fasteners, and hinged to housing by use of steel aircraft cables. The frame has a confinement grade construction extending to the edge of housing to prevent access to any crevices or gaps that could be used for harm.

GASKETS: Closed cell microcellular extruded gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system to block dust and pests from entering the light fixture.

LENS: Select up to two lenses for a maximum of 1/2" thickness for truly vandal resistant construction. When multiple lenses are selected, the flat lensing installs on the room side of the enclosure whereas the prismatic lens installs on the interior side of the fixture. The lens is mechanically secured to the door frame use of heavy duty hardware and a hold down bracket that prevents tampering by providing a high clamping force on the lens.

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.

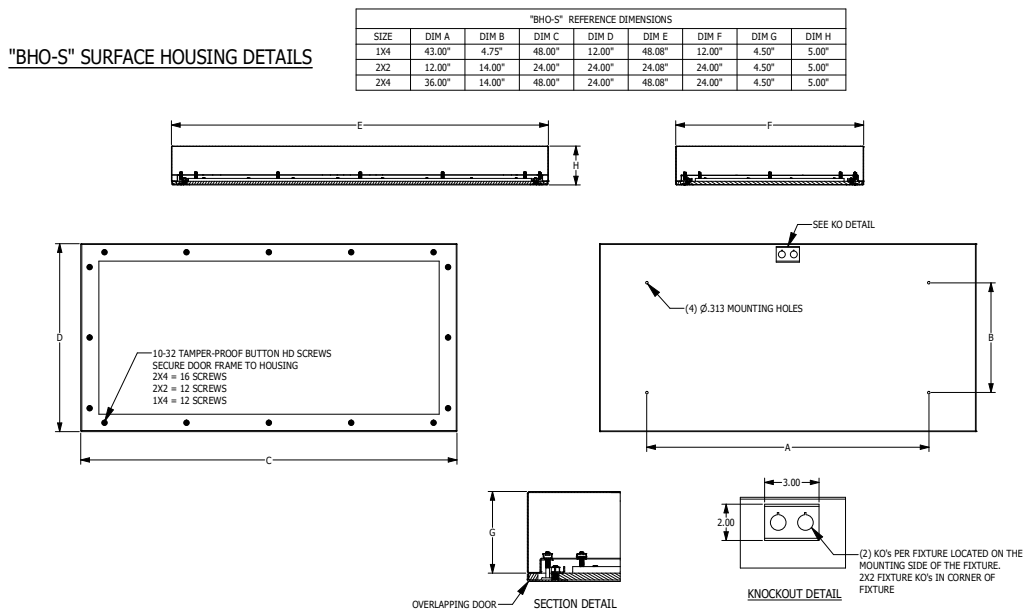
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

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

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

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. 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

| BHO-OVERLAP-RS-LED TROFFER (APPROX ¹ LUMENS DELIVERED) | | | | | | | | | | |
|---|---------------|------------------------|--------------------|-----------------------|--------------|-----------------------|--------------------|-----------------------|---------------------------|------------------|
| ENCLOSURE SIZE | LIGHT PACKAGE | 83 CRI (3000K - 5000K) | | | | 90 CRI (3500K, 4000K) | | | | STANDARD DIMMING |
| | | LUMENS | WATTS ² | EFFICACY ³ | MAX AMB TEMP | LUMENS | WATTS ² | EFFICACY ³ | MAX AMB TEMP ⁴ | |
| 1X4 | 1LEDR | 2,677 | 29 | 92 | 45°C (113°F) | 2,581 | 29 | 89 | 45°C (113°F) | 0-10V 1% |
| 1X4 | 2LEDR | 5,353 | 55 | 97 | 45°C (113°F) | 5,162 | 56 | 93 | 45°C (113°F) | 0-10V 1% |
| 1X4 | 2LEDH | 10,344 | 109 | 95 | 35°C (95°F) | 9,882 | 109 | 90 | 35°C (95°F) | 0-10V 1% |
| 1X4 | 2LEDHF | 16,241 | 153 | 106 | 35°C (95°F) | 13,991 | 183 | 77 | 35°C (95°F) | 0-10V 1% |
| 1X4 | EM10 | 920-1060 | 4 | NA | 40°C (104°F) | 770-930 | 4 | NA | 40°C (104°F) | NA |
| 2X2 | 2LEDR | 2,849 | 29 | 98 | 45°C (113°F) | 2,738 | 29 | 94 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 3LEDR | 4,272 | 42 | 102 | 45°C (113°F) | 4,107 | 42 | 98 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 2LEDH | 5,592 | 55 | 102 | 40°C (104°F) | 5,335 | 55 | 97 | 40°C (104°F) | 0-10V 1% |
| 2X2 | 4LEDR | 5,695 | 55 | 104 | 45°C (113°F) | 5,476 | 55 | 100 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 3LEDH | 8,387 | 80 | 105 | 40°C (104°F) | 8,003 | 81 | 99 | 35°C (95°F) | 0-10V 1% |
| 2X2 | 4LEDH | 11,183 | 109 | 103 | 40°C (104°F) | 10,670 | 109 | 98 | 35°C (95°F) | 0-10V 1% |
| 2X2 | 4LEDHF | 16,671 | 153 | 109 | 35°C (95°F) | 14,783 | 184 | 80 | 35°C (95°F) | 0-10V 1% |
| 2X2 | EM10 | 980-1090 | 4 | NA | 40°C (104°F) | 800-1000 | 4 | NA | 40°C (104°F) | NA |
| 2X4 | 2LEDR | 6,178 | 55 | 112 | 45°C (113°F) | 5,910 | 56 | 106 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 3LEDR | 9,266 | 83 | 112 | 45°C (113°F) | 8,866 | 83 | 107 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 2LEDH | 12,139 | 109 | 111 | 40°C (104°F) | 11,534 | 109 | 106 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LEDR | 12,353 | 111 | 111 | 45°C (113°F) | 11,821 | 113 | 105 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 3LEDH | 18,210 | 165 | 111 | 40°C (104°F) | 17,302 | 165 | 105 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LEDH | 24,279 | 220 | 110 | 40°C (104°F) | 23,069 | 220 | 105 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LEDHF | 35,436 | 305 | 116 | 35°C (95°F) | 31,939 | 373 | 86 | 35°C (95°F) | 0-10V 1% |
| 2X4 | EM10 | 1100-1160 | 4 | NA | 40°C (104°F) | 860-1070 | 4 | NA | 40°C (104°F) | NA |

- ¹ DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- ² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- ³ EFFICACY CALCULATED USING 4000K CCT DATA.
- ⁴ MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON-STANDARD SELECTION
- ⁵ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.