

Behavioral Health Troffers: BHO-R-LED-TW

Tunable White 1x4, 2x2 and 2x4 Recessed LED Luminaires for Behavioral Health Facilities.



- **IP66 Rated**
- **Ligature Resistant Heavy-Gauge Overlapping Door Frame Extends to the Edge of Fixture to Eliminate Gaps.**
- **Polycarbonate Lensing & Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**
- **Recessed Housing Suitable for Grid or Flange Installation.**
- **B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation**
- **Available as Warm Dim or as Separately controlled intensity and CCT**
- **Tunable white LEDs allow a full range of CCTS from 2700K - 6500K CCT**



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ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Control	Voltage	Outer Lens/Inner Lens	Options	
BHO-R				LEDTW						
Series	Material	Size	Row Qty.	Light Source		Control	Voltage	Optics LED Side / Room Side	Options	
BHO-R	3 White 20Ga. 430 SS Hsg. & White 16Ga. 430 SS Door	1x4 1x4 Housing	1	LEDTW	80 CRI:	10VA 0-10V Analog Control	120V	Prismatic	FC Fuse & Holder (One Supplied Per Circuit)	
			2						827/865 2700K-6500K	277V
		2x2 2x2 Housing	2		90+ CRI:		10VWD 0-10V Warm Dim Control	UNV	EM10 ** 10W Integral LED EM (Specify Input Voltage)	
			3						927/965 2700K-6500K	EM20 20W Remote LED EM (Specify Input Voltage)
	8 White 20Ga. 430 SS Hsg. & White 14Ga. CRS Door	2x2 2x2 Housing	2		LEDTW	80 CRI:	10VA 0-10V Analog Control	120V	Prismatic	SW Wet Location Hub Supplied (not installed)
			3							927/965 2700K-6500K
		2x4 2x4 Housing	4			90+ CRI:		10VWD 0-10V Warm Dim Control	UNV	
			4							927/965 2700K-6500K
								Non-Prismatic	GTD Generator Transfer Device	
									5 .125" Clear Flat Polycarbonate	WHIP Must Specify Length and Wire Qty
									6 .187" Clear Flat Polycarbonate	AH Allen Head SS Tamperproof Fasteners
									7 .250" Clear Flat Polycarbonate	TPWHT White Painted Torx Tamper Resistant Fasteners
								8 .375" Clear Flat Polycarbonate		

Ordering Notes, If Applicable

*Select up to 1 layer of prismatic lensing
 Note: Specify Value in Ordering Notes
 **Note: EM10 remote mount for 2x2 4/LEDH & 4/LEDHF selections
 ***Note: EM10 remote mount for 2x4 4/LEDHF selections

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Recessed housings are available in 20Ga 430 Stainless 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 to establish ligature.

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 minimum 80 or 90 CRI 2 channel LED modules use 2700K and 6500K chips to mix color in order to achieve a desired color temperature. Modules have rated lifetime of L70 > 50,000 hrs and efficacy of 165Lm/W . LEDs are controllable via 0-10v dimming, see next page for control options. Consult factory for lumen output configurations not listed on spec sheets.

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.

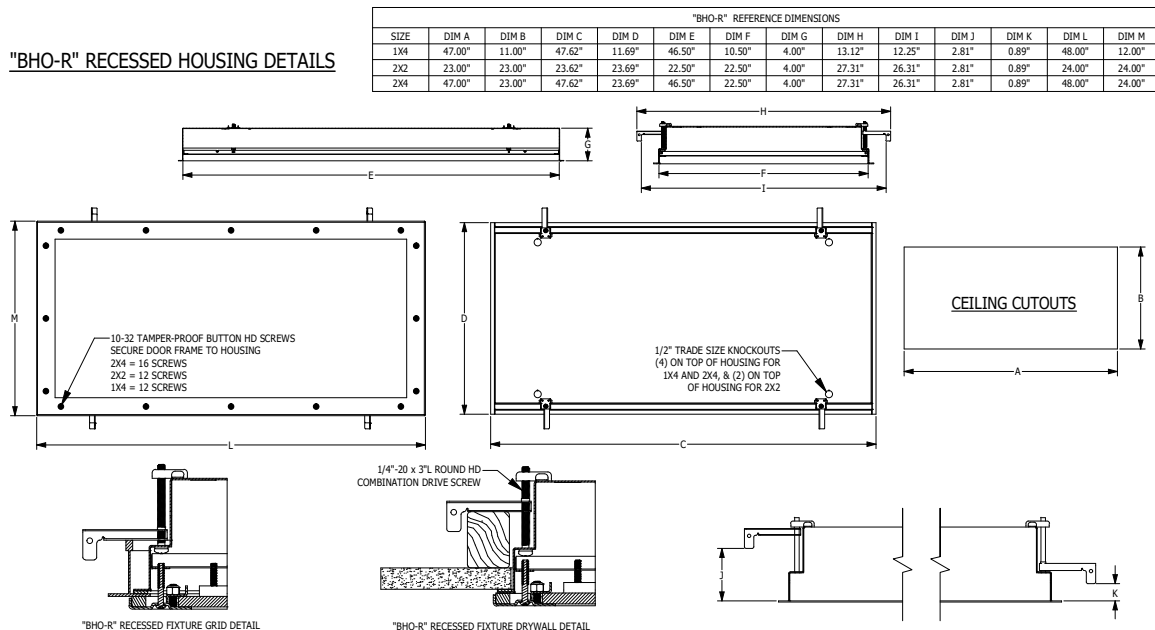
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid see below detail drawing for reference. Four adjustable toggle arms with holes for seismic support wire attachment. 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 hosesdowns. 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. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS



Behavioral Health Troffers: BHO-R-LED-TW

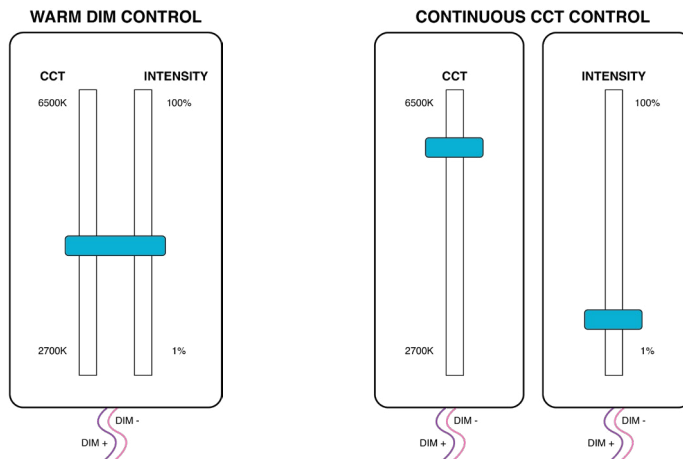
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ENERGY DATA

BHO-R-LED TROFFER (APPROX ⁴ LUMENS DELIVERED)						
ENCLOSURE SIZE	LIGHT PACKAGE	Tunable White 80 CRI (4000K)				CCT RANGE
		LUMENS ¹	WATTS ²	EFFICACY	MAX AMB TEMP ³	
1X4	1LEDTW	3,015	35	86	40°C (104°F)	2700k - 6500k
1X4	2LEDTW	6,073	68	89	40°C (104°F)	2700k - 6500k
1X4	EM10	860-890	4	NA	40°C (104°F)	NA
2X2	2LEDTW	2,900	35	83	40°C (104°F)	2700k - 6500k
2X2	3LEDTW	4,400	53	83	40°C (104°F)	2700k - 6500k
2X2	4LEDTW	5,600	68	82	40°C (104°F)	2700k - 6500k
2X2	EM10	820-830	4	NA	40°C (104°F)	NA
2X4	2LEDTW	6,600	68	97	40°C (104°F)	2700k - 6500k
2X4	3LEDTW	10,000	103	97	40°C (104°F)	2700k - 6500k
2X4	4LEDTW	13,100	135	97	40°C (104°F)	2700k - 6500k
2X4	EM10	970	4	NA	40°C (104°F)	NA

- ¹ DELIVERED LUMEN DATA IS CALCULATED BASED ON STATIC WHITE PHOTOMETRY @ 4000K CCT
- ² WATTAGE IS MEASURED @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- ³ MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. RATING MAY VARY WITH OPTIONS SELECTED
- ⁴ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

CONTROL OPTIONS



Only one set of dimming Leads are required. As Intensity is increased so is the CCT. As intensity decreases the CCT decreases to warmer color Temperatures.

Two set of dimming leads are required. Intensity and CCT of light are controlled independently from one another.