

Behavioral Health Troffers

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

- **IP66 Rated**
- **Heavy-Gauge Overlapping Door Frame Extends Beyond Flange of Fixture to Eliminate Gaps That Can Be Used For Harm**
- **Polycarbonate Lensing & 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	Material	Size	Row Qty.	LED Type	CCT/CRI	Voltage	Outer Lens/Inner Lens	Options
BHO-R								
Series	Material	Size	Light Source			Voltage	Optics LED Side / Room Side	Options
			Row Qty.	LED Type	CCT/CRI			
BHO-R	3 White 20Ga. 430 SS Hsg. & White 16Ga. 430 SS Door	1x4 1x4 Housing	1	LEDR	83 CRI:	120V	Prismatic	FC Fuse & Holder (One Supplied Per Circuit)
			2	LEDH	830 3000K	277V		2/ED Two Drivers/Two Circuits
				LEDHF	835 3500K	UNV		EM10 ** 10W Integral LED EM (Specify Input Voltage)
					840 4000K	347V*		EM20 20W Remote LED EM (Specify Input Voltage)
	8 White 20Ga. 430 SS Hsg. & White 14Ga. CRS Door	2x2 2x2 Housing	2		850 5000K		1 .125" P12 Polycarbonate	SW Wet Location Hub Supplied (not installed)
		2x4 2x4 Housing	3				2 .140" P12 High Impact Acrylic	PxL * Programmed to User Specified Lumen Value.
			4				3 .156" P12 Polycarbonate	PxW * Programmed to User Specified Wattage Value.
							4 .125" Flat Frosted Acrylic	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)
							Non-Prismatic	GTD Generator Transfer Device
								WHIP Must Specify Length and Wire Qty
								AH Allen Head SS Tamperproof Fasteners
								TPWHT White Painted Torx Tamper Resistant Fasteners
							*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

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. 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 is designed to overlap the fixtures mounting flange 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.

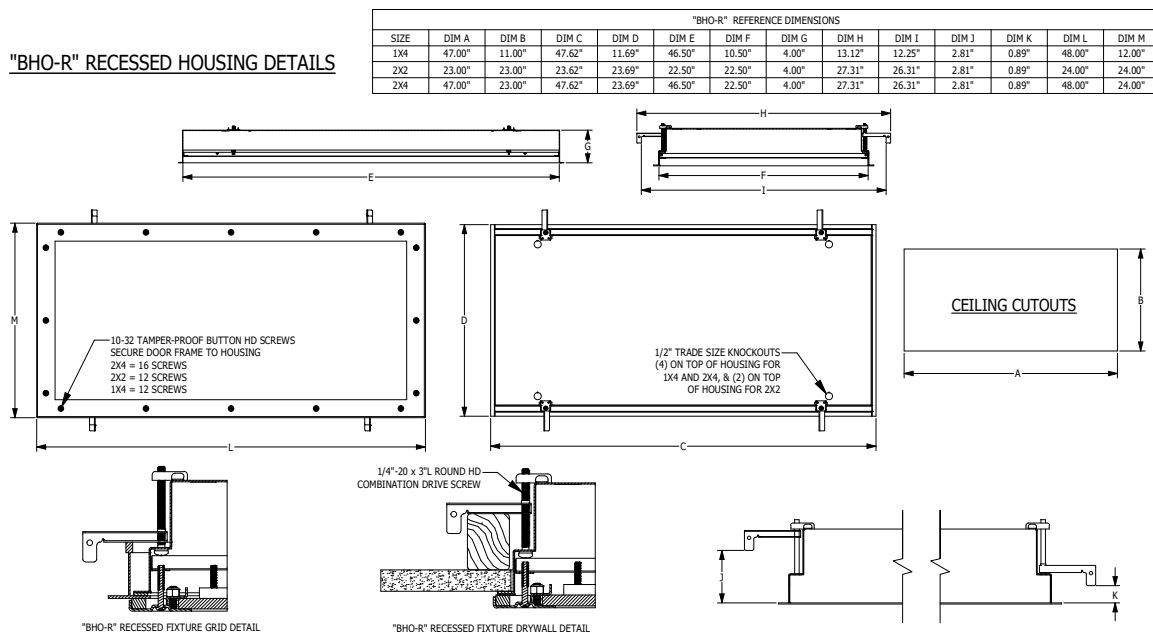
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALL 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 hosedowns. 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



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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.