

# Behavioral Health Troffers

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

- **IP65 Rated**
- **Anti-Ligature Zero Clearance Door Frame Design**
- **Polycarbonate Lensing & Tamper-Resistant Fasteners**
- **Standard**
- **0-10V Dimming Down to 1% Standard (Except 2x2 with HF Selection)**
- **Recessed Housing Suitable for Grid or Flange Installation.**



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## ORDERING GUIDE

Series Installation Type Material Size Source CCT Voltage Lens: Options

VL

Series	Installation Type	Material	Size	Source	CCT	Voltage	Lens: (Inside/Outside)	Options
VL	R-ZCD: Recess Mount With Zero Clearance Door  <i>*SUITABLE FOR BOTH GRID OR HARDLID INSTALLATIONS</i>	3: White 430 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	1/LEDR	83 CRI: 830 = 3000K 835 = 3500K 840 = 4000K 850 = 5000K	120V 277V UNV 347V*	<b>Prismatic Lensing:</b> 1: .125" P12 Polycarbonate 2: .140" P12 High Impact Acrylic 3: .156" P12 Polycarbonate	FC: Fuse & Holder (One Supplied Per Circuit) 2/YED: 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.∅∞ PkW: Programmed to User Specified Wattage Value.∅∞
		4: White AL Hsg. & Polished 304 SS Door		2/LEDR				
		7: White AL Hsg. & White CRS Door		2/LEDH				
		8: White 430 SS Hsg. & White CRS Door		2/LEDHF				
		2x2: 2'x2' Housing		2/LEDR				
		OR		2/LEDH				
	S-ZCD: Surface Mount With Zero Clearance Door	1: White CRS Hsg. & White CRS Door	1x4: 1' x 4' Housing	1/LEDR	90 + CRI: 935 = 3500K 940 = 4000K 950 = 5000K	120V 277V UNV 347V*	<b>Flat Lensing:</b> 5: .125" Clear Flat Polycarbonate 6: .187" Clear Flat Polycarbonate 7: .250" Clear Flat Polycarbonate	GTD: Generator Transfer Device WHIP: Must Specify Length and Wire Qty AH: Allen Head SS Tamperproof Fasteners TPWHT: Tamper Resistant Torx Fasteners Painted White YMB: Optional Yoke Mounting Brackets WHT: White Painted Stainless Steel Door Frame HF1: 1% Dimming for 2x2 with LEDHF
		2: White CRS Hsg. & Polished 304 SS Door		2/LEDR				
		3: White 430 SS Hsg. & Polished 304 SS Door		2/LEDH				
		4: White AL Hsg. & Polished 304 SS Door		2/LEDHF				
		7: White AL Hsg. & White CRS Door		2/LEDR				
		OR		2/LEDH				
S-ZCD: Surface Mount With Zero Clearance Door	1: White CRS Hsg. & White CRS Door	2x2: 2'x2' Housing	1/LEDR	90 + CRI: 935 = 3500K 940 = 4000K 950 = 5000K	120V 277V UNV 347V*	<b>Flat Lensing:</b> 5: .125" Clear Flat Polycarbonate 6: .187" Clear Flat Polycarbonate 7: .250" Clear Flat Polycarbonate	GTD: Generator Transfer Device WHIP: Must Specify Length and Wire Qty AH: Allen Head SS Tamperproof Fasteners TPWHT: Tamper Resistant Torx Fasteners Painted White YMB: Optional Yoke Mounting Brackets WHT: White Painted Stainless Steel Door Frame HF1: 1% Dimming for 2x2 with LEDHF	
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	4: White AL Hsg. & Polished 304 SS Door		2/LEDHF					
	7: White AL Hsg. & White CRS Door		2/LEDR					
	OR		2/LEDH					
S-ZCD: Surface Mount With Zero Clearance Door	1: White CRS Hsg. & White CRS Door	2x4: 2'x4' Housing	1/LEDR	90 + CRI: 935 = 3500K 940 = 4000K 950 = 5000K	120V 277V UNV 347V*	<b>Flat Lensing:</b> 5: .125" Clear Flat Polycarbonate 6: .187" Clear Flat Polycarbonate 7: .250" Clear Flat Polycarbonate	GTD: Generator Transfer Device WHIP: Must Specify Length and Wire Qty AH: Allen Head SS Tamperproof Fasteners TPWHT: Tamper Resistant Torx Fasteners Painted White YMB: Optional Yoke Mounting Brackets WHT: White Painted Stainless Steel Door Frame HF1: 1% Dimming for 2x2 with LEDHF	
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	3: White 430 SS Hsg. & Polished 304 SS Door		2/LEDH					
	4: White AL Hsg. & Polished 304 SS Door		2/LEDHF					
	7: White AL Hsg. & White CRS Door		2/LEDR					
	OR		2/LEDH					

# Behavioral Health Troffers

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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 .040" 3003 Aluminum or 20Ga 430 Stainless Steel. Surface housings are available in .050" 3003 Aluminum, 20Ga 430 Stainless Steel, or 20Ga Cold Rolled Steel. Available in nominal 2x2 and 2x4 sizes only.

**DOOR FRAME:** One piece zero clearance interference fit doorframe regressed into housing and designed to prevent ligature. Secured by captive Torx tamperproof fasteners and hinged to housing with aircraft cables. Available in Powder coated 18Ga steel or Polished 304 Stainless Steel

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

**LENS:** High durability minimum .125" thick inverted prismatic lensing. Lens materials available in polycarbonate or High Impact Acrylic, and factory sealed to door with silicone.

**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%.

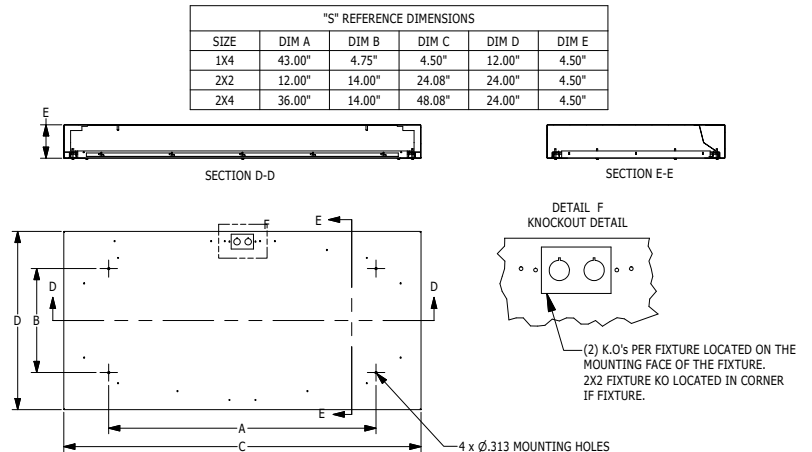
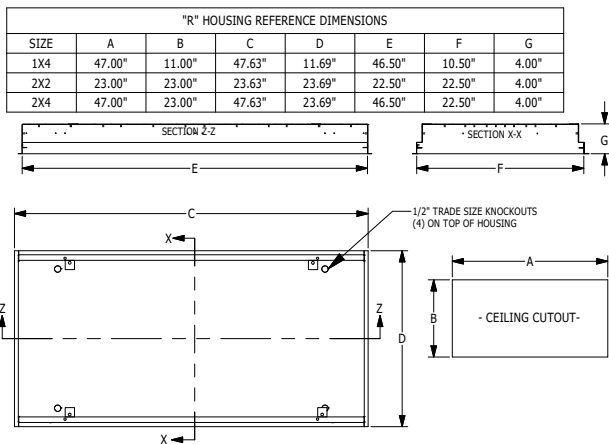
**INSTALL RECESSED:** One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid see below detail drawing for reference. Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts. Optional Yoke Mounting Bracket.

**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 recessed housings. Stainless steel doorframes and surface housings are satin polished unless option WHT is chosen.

**LISTINGS:** IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL\_1598 for wet locations. Chicago PlenumRated. 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

POLY ZCD-RS-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>	
1X4	1LEDR	3,150	34	93	40°C (104°F)	2,520	34	74	40°C (104°F)	0-10V 1%
1X4	2LEDR	6,390	68	94	40°C (104°F)	5,112	62	82	40°C (104°F)	0-10V 1%
1X4	2LEDH	11,520	113	102	40°C (104°F)	11,110	146	76	35°C (95°F)	0-10V 1%
1X4	2LEDHF	14,040	139	101	35°C (95°F)	14,454	182.5	79	35°C (95°F)	0-10V 1%
1X4	EM10	930 - 1020	4	NA	40°C (104°F)	740 - 820	4	NA	40°C (104°F)	NA
2X2	2LEDR	3,100	35	89	40°C (104°F)	2,480	32	78	40°C (104°F)	0-10V 1%
2X2	3LEDR	4,700	53	89	40°C (104°F)	3,760	48	78	40°C (104°F)	0-10V 1%
2X2	2LEDH	4,900	57	86	40°C (104°F)	4,729	73	65	35°C (95°F)	0-10V 1%
2X2	4LEDR	5,900	68	87	40°C (104°F)	4,720	62	76	40°C (104°F)	0-10V 1%
2X2	3LEDH	7,800	86	91	40°C (104°F)	7,527	110	69	35°C (95°F)	0-10V 1%
2X2	4LEDH	9,800	113	87	40°C (104°F)	<b>10,845</b>	146	74	35°C (95°F)	0-10V 1%
2X2	4LEDHF	<b>18,073</b>	<b>171</b>	105	35°C (95°F)	NA	NA	NA	NA	0-10V 5%
2X2	4LEDHF (1%)	14,200	138	103	35°C (95°F)	14,766	183.8	80.3	35°C (95°F)	0-10V 1%
2X2	EM10	860-1050	4	NA	40°C (104°F)	650-740	4	NA	40°C (104°F)	NA
2X4	2LEDR	7,000	68	103	40°C (104°F)	5,600	62	90	40°C (104°F)	0-10V 1%
2X4	3LEDR	10,600	103	103	40°C (104°F)	8,480	94	90	40°C (104°F)	0-10V 1%
2X4	2LEDH	11,700	113	104	40°C (104°F)	11,291	148	77	35°C (95°F)	0-10V 1%
2X4	4LEDR	13,800	135	102	40°C (104°F)	11,040	124	89	40°C (104°F)	0-10V 1%
2X4	3LEDH	17,500	169	104	40°C (104°F)	16,888	221	76	35°C (95°F)	0-10V 1%
2X4	4LEDH	23,400	225	104	40°C (104°F)	<b>25,519</b>	295	87	35°C (95°F)	0-10V 1%
2X4	4LEDHF	30,600	279	110	35°C (95°F)	35,344	373.3	94.7	35°C (95°F)	0-10V 1%
2X4	EM10	1020-1100	4	NA	40°C (104°F)	760-900	4	NA	40°C (104°F)	NA

- <sup>1</sup> DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH ACRYLIC 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
- <sup>6</sup> 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.