

Behavioral Health Troffers - Tunable White

Anti-Ligature 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**
- **Tunable White 2700k - 6500k CCT**
- **Available With DALI Or 0-10V Controls**
- **Recessed Housing Suitable for Grid or Flange Installation.**



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ORDERING GUIDE

Series	Installation Type	Material	Size	Source	CCT	Control	Voltage	Lens	Options
VL	R-ZCD: Recess Mount With Zero Clearance Door	3: White 430 SS Hsg. & Polished 304 SS Door 4: White AL Hsg. & Polished 304 SS Door 7: White AL Hsg. & White CRS Door 8: White 430 SS Hsg. & White CRS Door	2x2: 2'x2' Housing OR 2x4: 2'x4' Housing	2/LEDTW 3/LEDTW 4/LEDTW	827/865: 80 CRI; 2700k-6500k CCT **8xx/8yy: 80 CRI; xx00k-yy00k CCT **Consult factory for custom CCT range Availability	0-10v Analog Dimming 10V-CON: Continuous CCT 0-10v dimming 10V-WD: Warm Dim 0-10V dimming DALI Digital Dimming DALI-CON: Cont. CCT DALI dimming	UNV: 120-277 Vac	Prismatic Lensing: 1: .125" P12 Polycarbonate 2: .140" P12 High Impact Acrylic 3: .156" P12 Polycarbonate Flat Lensing: 5: .125" Clear Flat Polycarbonate 6: .187" Clear Flat Polycarbonate 7: .250" Clear Flat Polycarbonate	FF: Fuse & Holder 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 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
	S-ZCD: Surface Mount With Zero Clearance Door	1: White CRS Hsg. & White CRS Door 2: White CRS Hsg. & Polished 304 SS Door 3: White 430 SS Hsg. & Polished 304 SS Door 4: White AL Hsg. & Polished 304 SS Door 7: White AL Hsg. & White CRS Door	2x2: 2'x2' Housing OR 2x4: 2'x4' Housing	2/LEDTW 3/LEDTW 4/LEDTW					

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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 minimum 80 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. See LED options to specify a custom range of Color temperatures. Consult factory for lumen output configurations not listed on spec sheets.

DRIVERS: Dual Channel Programmable Drivers make color tuning simple. Available in 0-10v Analog Dimming or DALI digital dimming. The 0-10v continuous dimming method uses two sets of dimming wires. 1 set of dimming wires controls the luminous flux while maintaining consistent color and the other set controls the color in a linear dimming curve. 0-10v is also available as warm dimming that uses 1 set of dimming wires that adjust both intensity and color simultaneously. Alternately control is available with DALI Digital Dimming as well.

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

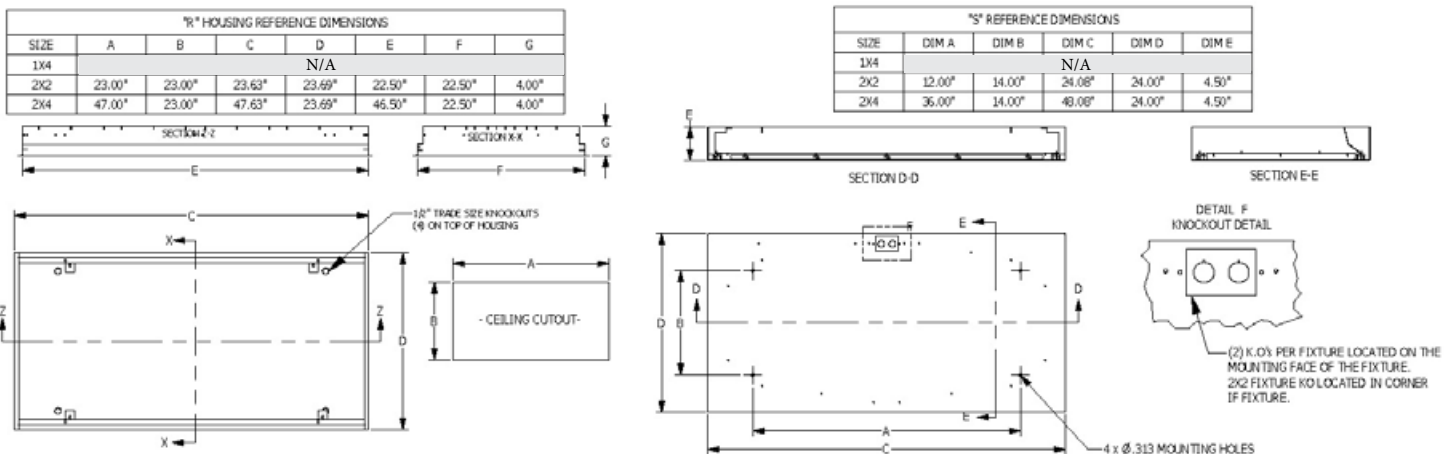
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid see below detail drawing for reference. Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts. Optional Yoke Mounting 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 ¹ LUMENS DELIVERED)						
ENCLOSURE SIZE	LIGHT PACKAGE	Tunable White 80 CRI (4000K)				CCT RANGE
		LUMENS ¹	WATTS ²	EFFICACY	MAX AMB TEMP ³	
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 INSTALLATON. RATING MAY VARY WITH OPTIONS SELECTED
- ⁴ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.