

Behavioral Health Troffers: VL-SB-BH-LED-TW

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



- **IP65 Rated**
- **Indirect Basket for Even Illumination**
- **Anti-Ligature Zero Clearance Door Frame Design**
- **Polycarbonate Lensing and Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**
- **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	Optics	Options				
VL-SB				LEDTW									
Series	Material	Size	Row Qty.	Light Source		Control	Voltage	Optics	Options				
VL-SB	1 White 18Ga. CRS Hsg. & White 18Ga. CRS Door	1x4	1x4 Housing	2	LEDTW	80 CRI:	120V	125P	0.125" Clear Flat Impact Resistant Polycarbonate	SW	Wet Location Hub Supplied (not installed)		
		2x2	2x2 Housing	3	827/865							2700K-6500K	10VA
VL-SB	2 White 18Ga. CRS Hsg. & Polished 304 SS Door	OR		4		90+ CRI:	10VWD	0-10V Warm Dim Control	UNV	250P	0.250" Clear Flat Impact Resistant Polycarbonate	PxW	Programmed to User Specified Wattage Value.
		2x4	2x4 Housing		927/965								
												WHIP	Must Specify Length and Wire Qty
												OCCMW	Internal Microwave OCC Sensor
												FC	Fuse & Holder (One Supplied Per Circuit)
												EM10	10W Integral LED EM (Specify Input Voltage)
												EM20	20W Remote LED EM (Specify Input Voltage)
												TPWHT	Taper Resistant Torx Fasteners Painted White
												WHT	White Finished Door & HSG
												AMW	Anti-Microbial White Powdercoat
												2/ED	Two Drivers/Two Circuits
												AH	Allen Head SS Tamperproof Fasteners
												Note*: Specify Value in Ordering Notes Below	

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. Housings are available in 18Ga. Cold Rolled Steel with White Powdercoat finish.

DOOR FRAME: One piece door frame with welded corners overlaps the fixture allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and is supplied with captive stainless steel flush head screws to allow easy wiping of the surface. Available in 20Ga 304 Polished SS or 18Ga Powder coated CRS.

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

OPTICS: Standard .125" Acrylic Lens is provided when no other options are selected. All optics are sealed to the door with NSF listed RTV silicone sealant. Other optics are available, consult factory for more information or options not listed.

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% and rated -20c (-4F). 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: Specially designed perforated reflector for indirect even fixture illumination.

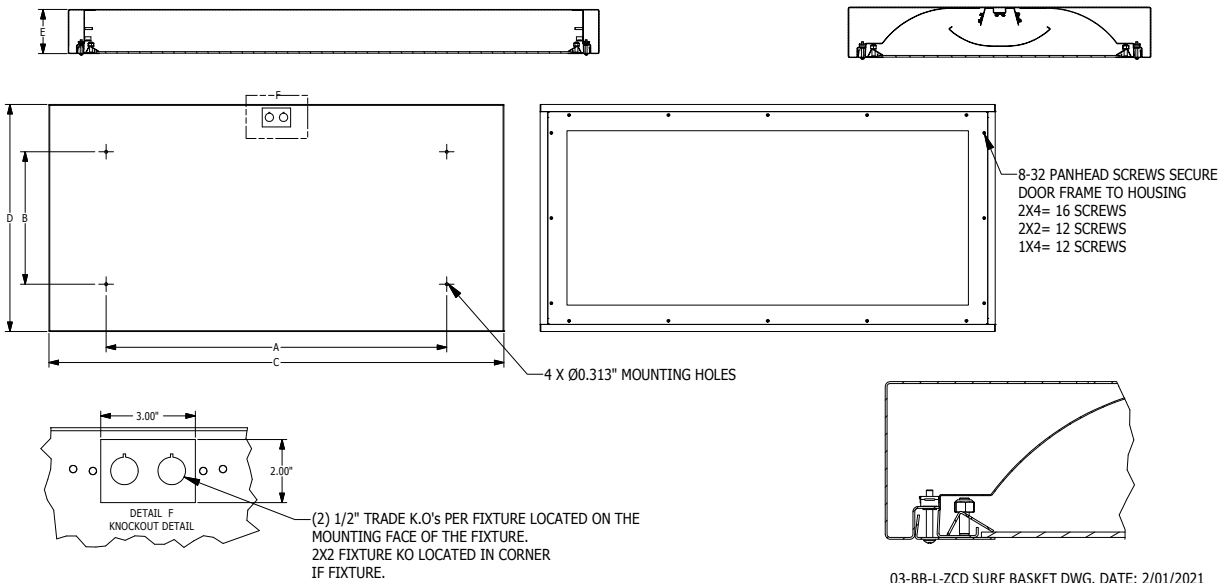
INSTALL: Four .312" dia. mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts. Suitable for surface installation onto covered ceilings only.

FINISH: Stainless Steel Door frames are Satin polished unless WHT or AMW Options are selected. All other materials are provided with glass high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white-microbial polyester powdercoat to all exposed surfaces.

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 1 through Class 100,000 cleanspaces. NSF2 Listed for Non-Food and Splash Zones. 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

*ZCD SURFACE * BASKET FIXTURE REFERENCE DIMENSIONS					
SIZE	DIM A	DIM B	DIM C	DIM D	DIM E
1X4					
2X2	12.00"	14.00"	24.08"	24.00"	4.50"
2X4	36.00"	14.00"	48.08"	24.00"	4.50"



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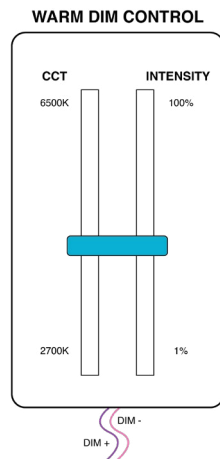
ENERGY DATA

INDIRECT POLY INSET-FGRS-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	
2X2	2LEDTW	2,300	30	77	40°C (104°F)	2700k - 6500k
2X2	3LEDTW	2,900	42	69	40°C (104°F)	2700k - 6500k
2X4	2LEDTW	4,600	60	77	40°C (104°F)	2700k - 6500k
2X4	3LEDTW	5,800	84	69	40°C (104°F)	2700k - 6500k

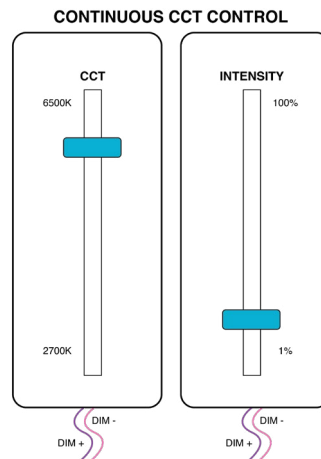
¹ DELIVERED LUMEN DATA IS CALCULATED BASED OF STATIC WHITE TESTED DATA @ 4000K CCT

² WATTAGE IS MEASURED @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS

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.