

Behavioral Health Troffers: VL-SB-BH-LED

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

- **IP65 Rated**
- **Indirect Basket for Even Illumination**
- **Ligature Resistant 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**



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ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Voltage	Optics	Options		
VL-SB										
Series	Material	Size	Light Source			Voltage	Optics	Options		
			Row Qty.	LED Type	CCT/CRI					
VL-SB	1	White 18Ga. CRS Hsg. & White 18Ga. CRS Door	1x4 1' x 4' Housing	2	LEDR	83 CRI:	120V	125P 0.125" Clear Flat Impact Resistant	SW	Wet Location Hub Supplied (not installed)
		2x2 2' x 2' Housing	3	LEDH	830 3000K	277V	187P 0.187" Clear Flat Impact Resistant Polycarbonate	PxL *	Programmed to User Specified Lumen Value.	
	2	White 18Ga. CRS Hsg. & Polished 304 SS Door	OR	4		835 3500K	UNV	250P 0.250" Clear Flat Impact Resistant Polycarbonate	PxW *	Programmed to User Specified Wattage Value.
			2x4 2' x 4' Housing	840 4000K		347*	10KV	10KV Parallel Surge Protection (One Supplied Per Circuit)		
				850 5000K			GTD	Generator Transfer Device		
							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 Integral LED EM (Specify Input Voltage)		
							TPWHT	: White Painted Torx Tamperproof Fasteners		
							WHT	White Finished Door		
							AMW	Anti-Microbial White Powdercoat		
							2/ED	Two Drivers/Two Circuits		
							YMB	Optional Yoke Mounting Brackets		
						AH	Allen Head SS Tamperproof Fasteners			
									Note*: Specify Value in Ordering Notes	

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 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% 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.

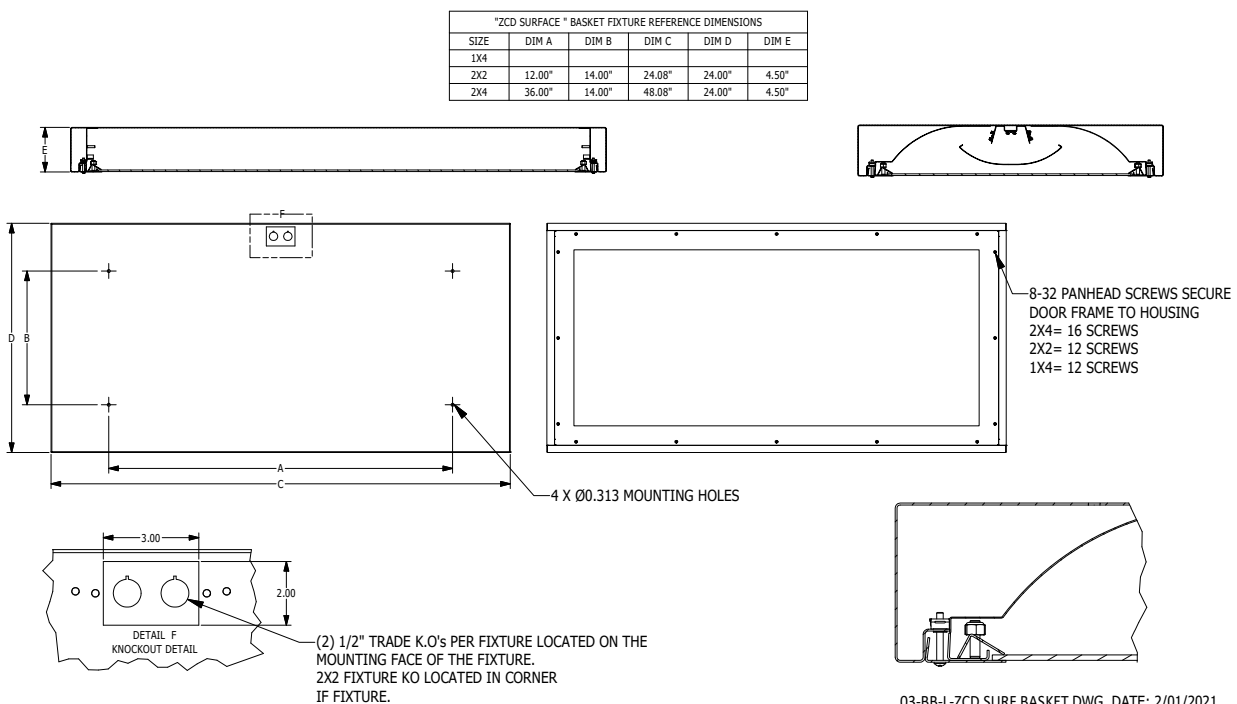
REFLECTOR: Specially designed perforated reflector for indirect even fixture illumination.

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



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ENERGY DATA

INDIRECT INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)										
ENCLOSURE SIZE	LIGHT PACKAGE	80 CRI (3000K - 5000K)				90 CRI (3500K, 4000K)				STANDARD DIMMING
		LUMENS ¹	WATTS ²	EFFICACY ³	MAX AMB TEMP	LUMENS ¹	WATTS ²	EFFICACY ³	MAX AMB TEMP ⁴	
1X4	2LED R	PENDING	PENDING	PENDING	40°C (104°F)	PENDING	PENDING	PENDING	40°C (104°F)	0-10V 1%
1X4	3LED R	PENDING	PENDING	PENDING	40°C (104°F)	PENDING	PENDING	PENDING	40°C (104°F)	0-10V 1%
1X4	2LED H	PENDING	PENDING	PENDING	40°C (104°F)	PENDING	PENDING	PENDING	40°C (104°F)	0-10V 1%
1X4	3LED H	PENDING	PENDING	PENDING	40°C (104°F)	PENDING	PENDING	PENDING	40°C (104°F)	0-10V 1%
2X2	2LED R	1,987	30.5	65.1	40°C (104°F)	1,906	30.5	62.5	40°C (104°F)	0-10V 1%
2X2	3LED R	2,940	45.8	64.2	40°C (104°F)	2,820	45.8	61.6	40°C (104°F)	0-10V 1%
2X2	2LED H	2,865	43.3	66.2	40°C (104°F)	2,753	43.3	63.6	40°C (104°F)	0-10V 1%
2X2	3LED H	4,357	64.8	67.2	40°C (104°F)	4,186	64.8	64.6	40°C (104°F)	0-10V 1%
2X4	2LED R	4,310	61.0	70.7	40°C (104°F)	4,134	61.0	67.8	40°C (104°F)	0-10V 1%
2X4	3LED R	6,342	91.4	69.4	40°C (104°F)	6,084	91.4	66.6	40°C (104°F)	0-10V 1%
2X4	2LED H	6,188	86.4	71.6	40°C (104°F)	5,946	86.4	68.8	40°C (104°F)	0-10V 1%
2X4	3LED H	9,459	129.6	73.0	40°C (104°F)	9,089	129.6	70.1	40°C (104°F)	0-10V 1%

¹ DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH .125" LENS

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