KURTZON
SPECIFICATION GRADE LIGHTING
ILLUMINATING YOUR WORLD

PROJECT

DATE   TYPE

NOTES

REV: 08192022

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

Anti-Ligature 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. Compliant & Made in the USA by a Family Owned US Corporation**

K 5/10 YEAR WARRANTY | c ETL us Intertek | IP65 IEC 60529 | ANTI LIGATURE + | BAA COMPLIANT

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 Polycarbonate	**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	**2x4** 2' x 4' Housing			**835** 3500K	**UNV**	**250P** 0.250" Clear Flat Impact Resistant Polycarbonate	**PxW*** Programmed to User Specified Wattage Value.
					840 4000K			**10KV** 10KV Parallel Surge Protection (One Supplied Per Circuit)
					850 5000K			**WHIP** Must Specify Length and Wire Qty
								FC Fuse & Holder (One Supplied Per Circuit)
					90+ CRI:			**EM10** 10W Integral LED EM (Specify Input Voltage)
					935 3500K			**TPWHT** White Painted Torx Tamperproof Fasteners
					940 4000K			**WHT** White Finished Door
								AMW Anti-Microbial White Powdercoat
								2/ED Two Drivers/Two Circuits
				NOTE: Additionally available in 95 + CRI with Seoul Sun-Like LEDS. Consult factory for more information.				**EM20** 20W Remote LED EM (Specify Input Voltage)
								GTD Generator Transfer Device
								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 zero clearance interference fit doorframe regressed into housing and desigend to prevent ligature. Secured by captive torx tamperproof fasteners and hinged to housing with aircraft cables. Available in Powdercoated 18Ga steel OR Polished 304 Stainless steel.

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

OPTICS: Standard .125" Polycarbonate 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.
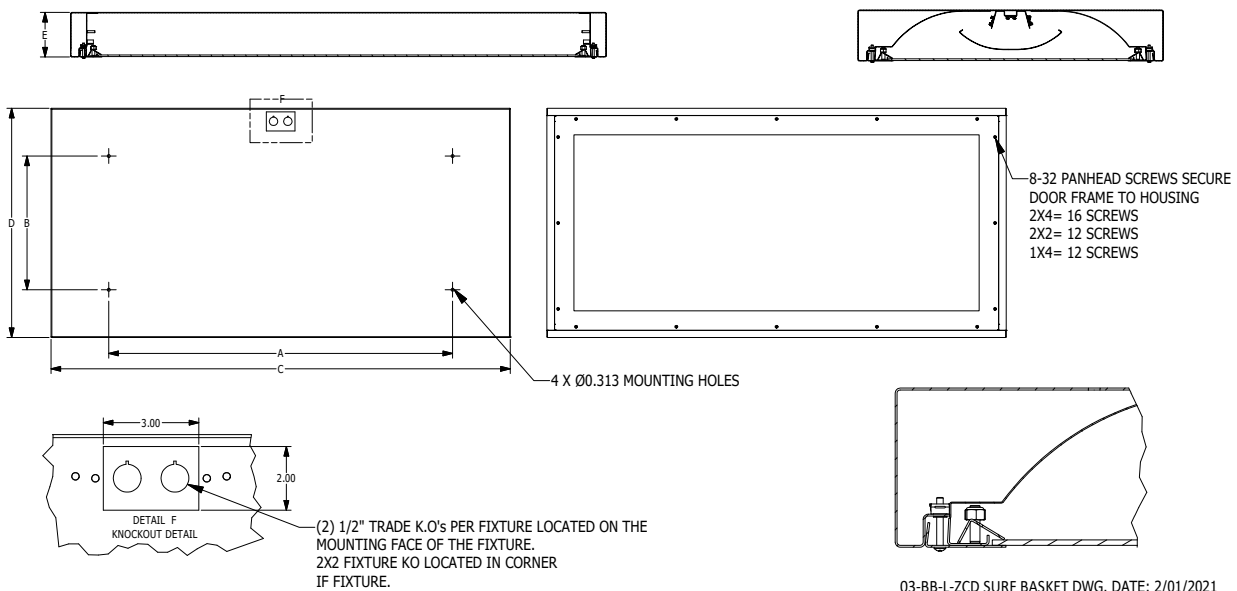
INSTALLATION: Four .312" dia.mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts. Suitable for surface installation onto covered ceilings only.

FINISH: Stainless Steel Door frames are Satin polished unless WHT or AMW Options are selected. All other materials are provided with glass high refelctance white polyester powdercoat with 1000hr salt spray test per ASTMB117. AMW option provides a white-microbial polyester powdercoat to all exposed surfaces.

LISTINGS: IP65 rated for dust and water ingress. ETL listed per UL_1598 for wet locations. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product is 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"

8-32 PANHEAD SCREWS SECURE DOOR FRAME TO HOUSING
2X4= 16 SCREWS
2X2= 12 SCREWS
1X4= 12 SCREWS

4 X Ø0.313 MOUNTING HOLES

3.00

2.00

DETAIL F
KNOCKOUT DETAIL

(2) 1/2" TRADE K.O's PER FIXTURE LOCATED ON THE MOUNTING FACE OF THE FIXTURE.
2X2 FIXTURE KO LOCATED IN CORNER IF FIXTURE.

03-BB-L-ZCD SURF BASKET DWG. DATE: 2/01/2021

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ENERGY DATA

| ENCLOSURE SIZE | LIGHT PACKAGE | INDIRECT VL-RS-LED TROFFER (APPROX[1] LUMENS DELIVERED) | | | | | | | | STANDARD DIMMING |
| | | 80 CRI (3000K - 5000K) | | | | 90 CRI (3500K, 4000K) | | | | |
		LUMENS[1]	WATTS[2]	EFFICACY[3]	MAX AMB TEMP	LUMENS[1]	WATTS[2]	EFFICACY[3]	MAX AMB TEMP[4]	
1X4	2LEDR	3,640	56	65	40°C (104°F)	3,489	56	63	40°C (104°F)	0-10V 1%
1X4	3LEDR	5,065	83	61	40°C (104°F)	4,855	83	58	40°C (104°F)	0-10V 1%
1X4	2LEDH	5,594	83	67	40°C (104°F)	5,371	83	64	40°C (104°F)	0-10V 1%
1X4	3LEDH	7,785	126	62	35°C (95°F)	7,474	126	60	35°C (95°F)	0-10V 1%
2X2	2LEDR	1,858	28.9	64	40°C (104°F)	1,781	28.7	62	40°C (104°F)	0-10V 1%
2X2	3LEDR	2,717	42.3	64	40°C (104°F)	2,604	41.9	62	40°C (104°F)	0-10V 1%
2X2	2LEDH	2,856	42.2	68	40°C (104°F)	2,742	42.1	65	40°C (104°F)	0-10V 1%
2X2	3LEDH	4,225	62.6	67	40°C (104°F)	4,056	62.5	65	40°C (104°F)	0-10V 1%
2X4	2LEDR	4,004	55.7	72	40°C (104°F)	3,838	55.3	69	40°C (104°F)	0-10V 1%
2X4	3LEDR	5,701	83.4	68	40°C (104°F)	5,465	82.8	66	40°C (104°F)	0-10V 1%
2X4	2LEDH	6,155	83.3	74	40°C (104°F)	5,909	83.1	71	40°C (104°F)	0-10V 1%
2X4	3LEDH	9,135	125.5	73	35°C (95°F)	8,770	125.2	70	35°C (95°F)	0-10V 1%

[1] DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH .125" POLYCARB 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 INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION