

## Cleanroom TL-SB Basket Troffers

1x4, 2x2, and 2x4 Sealed LED Surface Basket Luminaires

- **Rated IP65**
- **Indirect even illumination for reduced glare and eyestrain**
- **Suitable for ISO 3-9 Cleanspaces**
- **Suitable for 209E class 100-100,000 Cleanspaces**
- **ETL listed for Wet Locations**
- **One piece Inset doorframe**
- **Robotically seam welded housing**
- **0-10v 1% dimming 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
TL-SB								
TL-SB	1 White 18Ga. CRS Hsg. & White 18Ga. CRS Door	1x4 1' x 4' Housing	2	LEDH	83 CRI:	120V	125A 0.125" Clear Flat Impact Resistant Acrylic	SW Wet Location Hub Supplied (not installed)
					830 3000K	277V	125P 0.125" Clear Flat Impact Resistant Polycarbonate	PxL * Programmed to User Specified Lumen Value.
					835 3500K	UNV	187P 0.187" Clear Flat Impact Resistant Polycarbonate	PxW * Programmed to User Specified Wattage Value.
	2 White 18Ga. CRS Hsg. & Polished 304 SS Door	2x2 2' x 2' Housing	3		840 4000K		250P 0.250" Clear Flat Impact Resistant Polycarbonate	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)
					850 5000K			WHIP Must Specify Length and Wire Qty
					90+ CRI:			FC Fuse & Holder (One Supplied Per Circuit)
		2x4 2' x 4' Housing			935 3500K			EM10 10W Integral LED EM (Specify Input Voltage)
					940 4000K			TPWHT : White Painted Torx Tamperproof Fasteners
								WHT White Finished Door
								AMW Anti-Microbial White Powdercoat
								2/ED Two Drivers/Two Circuits
								EM20 20W Remote LED EM (Specify Input Voltage)
								GTD Generator Transfer Device

NOTE: 125A option is standard and will be provided when no other option is selected

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 inset door frame with seam welds regressing into housing to allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and secures to housing with captive stainless steel pan head screws. Available in 20Ga 304 Polished SS or 18Ga 1008 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.

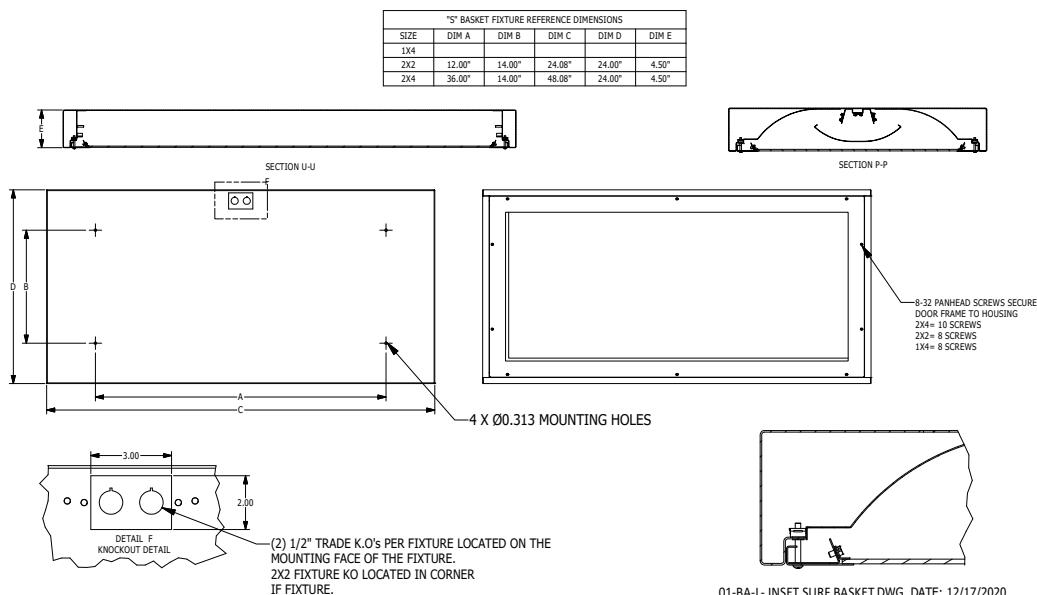
**REFLECTOR:** Specially designed perforated reflector for indirect even fixture illumination.

**INSTALL SURFACE:** 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:** IP65 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 100 through Class 100,000 cleanspaces. NSF2 Listed for Non-Food & 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

INSET SURFACE & RECESSED INDIRECT 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	2LED R	4,113	56	74	40°C (104°F)	3,942	56	71	40°C (104°F)	0-10V 1%
1X4	3LED R	5,723	83	69	40°C (104°F)	5,486	83	66	40°C (104°F)	0-10V 1%
1X4	2LED H	6,321	83	76	40°C (104°F)	6,069	83	73	40°C (104°F)	0-10V 1%
1X4	3LED H	8,797	126	70	35°C (95°F)	8,446	126	67	35°C (95°F)	0-10V 1%
2X2	2LED R	2,100	28.9	73	40°C (104°F)	2,012	28.7	70	40°C (104°F)	0-10V 1%
2X2	3LED R	3,070	42.3	73	40°C (104°F)	2,943	41.9	70	40°C (104°F)	0-10V 1%
2X2	2LED H	3,227	42.2	76	40°C (104°F)	3,098	42.1	74	40°C (104°F)	0-10V 1%
2X2	3LED H	4,774	62.6	76	40°C (104°F)	4,584	62.5	73	40°C (104°F)	0-10V 1%
2X4	2LED R	4,525	55.7	81	40°C (104°F)	4,337	55.3	78	40°C (104°F)	0-10V 1%
2X4	3LED R	6,442	83.4	77	40°C (104°F)	6,175	82.8	75	40°C (104°F)	0-10V 1%
2X4	2LED H	6,955	83.3	83	40°C (104°F)	6,678	83.1	80	40°C (104°F)	0-10V 1%
2X4	3LED H	10,322	125.5	82	35°C (95°F)	9,910	125.2	79	35°C (95°F)	0-10V 1%

<sup>1</sup> DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH .125" 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