

Cleanroom KL-SB Basket Troffers

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

- **Rated IP66**
- **Indirect even illumination reduces glare and eyestrain**
- **Suitable for ISO 3-9 Cleanspaces**
- **Suitable for 209E class 1-100,000 cleanspaces**
- **ETL listed for Wet Locations**
- **One Piece overlapping door frame**
- **Robotically seam welded housing**
- **0-10v dimming 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						
KL-SB														
Series	Material	Size	Light Source			Voltage	Optics	Options						
			Row Qty.	LED Type	CCT/CRI									
KL-SB	1	White 18Ga. CRS Hsg. & White 18Ga. CRS Door	1x4	1" x 4" Housing	2	LEDR	83 CRI:	120V	125A	0.125" Clear Flat Impact Resistant Acrylic	SW	Wet Location Hub Supplied (not installed)		
			2x2	2" x 2" Housing	3	LEDH	830 3000K	277V	125P	0.125" 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	187P	0.187" Clear Flat Impact Resistant Polycarbonate	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)
													EM10	10W 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
													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: Additionally available in 95 + CRI with Seoul Sun-Like LEDs. Consult factory for more information.													
	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 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.

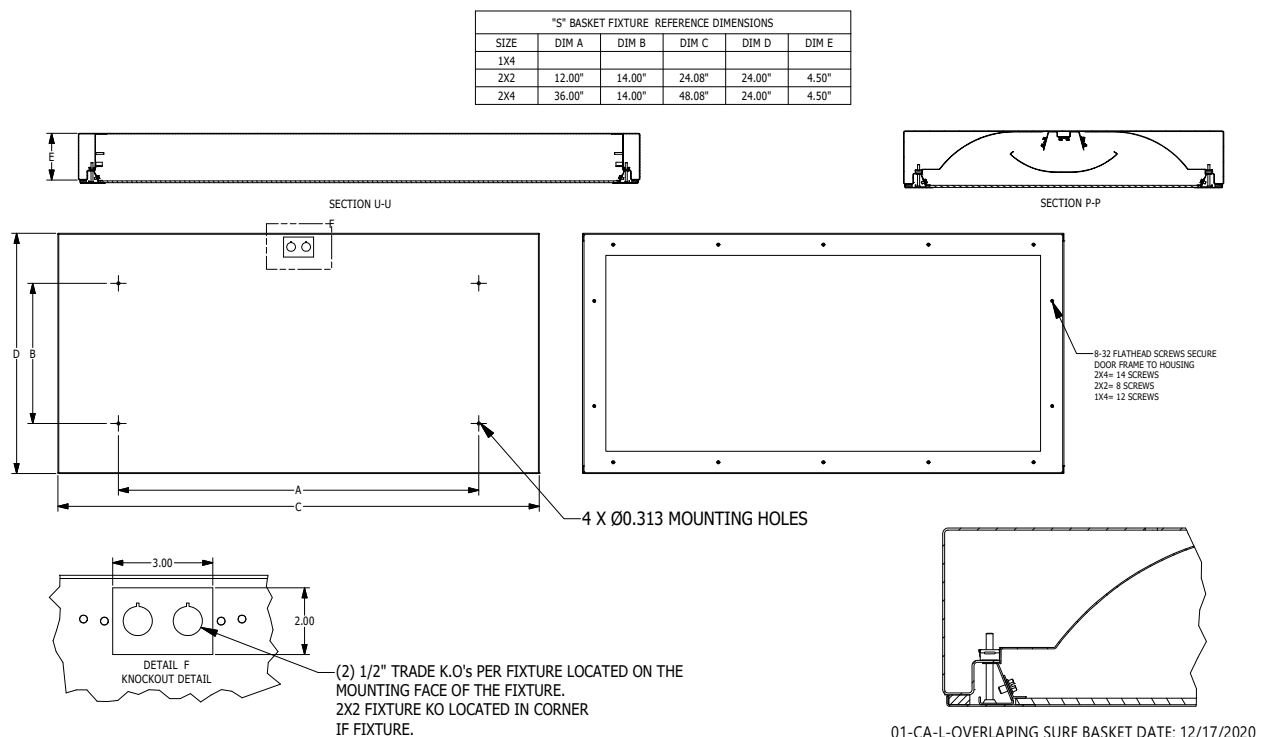
REFLECTOR: Specially designed perforated reflector for indirect even fixture illumination.

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: 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

OVERLAP SURFACE & RECESSED INDIRECT 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	2LEDR	4,084	56	73	40°C (104°F)	3,915	56	70	40°C (104°F)	0-10V 1%
1X4	3LEDR	5,680	83	68	40°C (104°F)	5,445	83	65	40°C (104°F)	0-10V 1%
1X4	2LEDH	6,277	83	75	40°C (104°F)	6,027	83	72	40°C (104°F)	0-10V 1%
1X4	3LEDH	8,731	126	70	35°C (95°F)	8,382	126	67	35°C (95°F)	0-10V 1%
2X2	2LEDR	2,224	28.9	77	40°C (104°F)	2,132	28.7	74	40°C (104°F)	0-10V 1%
2X2	3LEDR	3,250	42.3	77	40°C (104°F)	3,115	41.9	74	40°C (104°F)	0-10V 1%
2X2	2LEDH	3,419	42.2	81	40°C (104°F)	3,282	42.1	78	40°C (104°F)	0-10V 1%
2X2	3LEDH	4,885	62.6	78	40°C (104°F)	4,690	62.5	75	40°C (104°F)	0-10V 1%
2X4	2LEDR	4,659	55.7	84	40°C (104°F)	4,466	55.3	81	40°C (104°F)	0-10V 1%
2X4	3LEDR	6,629	83.4	79	40°C (104°F)	6,354	82.8	77	40°C (104°F)	0-10V 1%
2X4	2LEDH	7,161	83.3	86	40°C (104°F)	6,876	83.1	83	40°C (104°F)	0-10V 1%
2X4	3LEDH	10,698	125.5	85	35°C (95°F)	10,271	125.2	82	35°C (95°F)	0-10V 1%

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