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REV: 01/14/2019

Cleanroom KL Screwless Troffers - Tunable White

1x4, 2x2 and 2x4 High Efficiency LED Luminaires With Screwless Door Frame

Rated IP66

- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E class 1-100,000 Cleanspaces
- **ETL listed for Wet Locations**
- One piece overlapping Screwless door frame for smooth cleanable surface
- Robotically seam welded housing
- Tunable White 2700k 6500k CCT
- Available With DALI Or 0-10V Controls
- **Recessed Housing suitable for Tbar Grid AND Hardlid** Installations
- Made in the USA by a Family Owned US Corporation



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ORDERING GUIDE

Sorios	eries Installation Type Material Size Source CCT Control Voltage Options									
Series	mstanation type Material		3126	Source	661	Control	vonage	Options		
KL										
	1		1		1	1				
Series	Installation Type	Material	Size	Source	ССТ	Control:	Voltage	Options		
KL	R/EZ: Recessed	1: White CRS Hsg. & White CRS Door	1x4: 1' x 4' Housing	1/LEDTW	827/865:	0-10v Analog Dimming	UNV	FF: Fuse & Holder		
	Suitable for Grid	2: White CRS Hsg. & Polished 304 SS Door		2/LEDTW	80 CRI; 2700k-6500k CCT	NK CCT 10V-CON: Continuous CCT 0-10v dimming 10V-WD: Warm Dim 0- 10V dimming DALI Digital Dimming DAL-CON: Cont. CCT DALI dimming		EM10: 10W Integral LED EM (Specify Input Voltage)		
		3: White 430 SS Hsg. & Polished 304 SS Door						EM20: 20W Remote LED EM (Specify Input Voltage)		
			2x2: 2' x 2' Housing	2/LEDTW				WHT: White Finished Door & HSG		
			OR	3/LEDTW				PxL: Programmed to User Specified Lumen Value.		
	S/EZ: Surface	1: White CRS Hsg. & White CRS Door	2x4: 2' x 4' Housing	4/LEDTW				PxW: Programmed to User Specified Wattage Value.		
		2: White CRS Hsg. & Polished 304 SS Door						10KV: 10KV Parallel Surge Protection		
		3: Polished 304 SS Hsg. & Polished 304 SS Door						WHIP: Must specify Length, Type, Wire Qty		
								LEX: .125" Prismatic Polycarbonate		
								A19: .156" Prismatic P19 Pattern Clear Acrylic		
								.125 FROST: 1/8" Frost Acrylic Lens		
								OCCMW: Internal microwave OCC Sensor		



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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Recessed housings are available in 20Ga 430 Stainless Steel or 20Ga Cold Rolled Steel. Surface housings are available in 20Ga 304 Stainless Steel or 20Ga Cold Rolled Steel.

DOOR FRAME: One piece door frame with welded corners overlaps the fixture allowing the NSF approved microcellular gasket to seal to the mounting surface. Door frame is secured to the housing with torsion springs for a crevice free door frame that can be opened without tools. Available in 20Ga 304 Polished SS, or 18Ga Powder coated CRS.

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

LENS: Impact resistant .135" thick virgin acrylic with P12 prismatic pattern inverted. Sealed to door with NSF listed RTV silicone. See "Options" for other choices.

LEDS: Commercially available minimum 80 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. See LED options to specify a custom range of Color temperatures. Consult factory for lumen output configurations not listed on spec sheets.

DRIVERS: Dual Channel Programmable Drivers make color tuning simple. Available in 0-10v Analog Dimming or DALI digital dimming. The 0-10v continuous dimming method uses two sets of dimming wires. 1 set of dimming wires controls the luminous flux while maintaining consistent color and the other set controls the color in a linear dimming curve. 0-10v is also available as warm dimming that uses 1 set of dimming wires that adjust both intensity and color simultaneously. Alternately control is available with DALI Digital Dimming as well.

REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

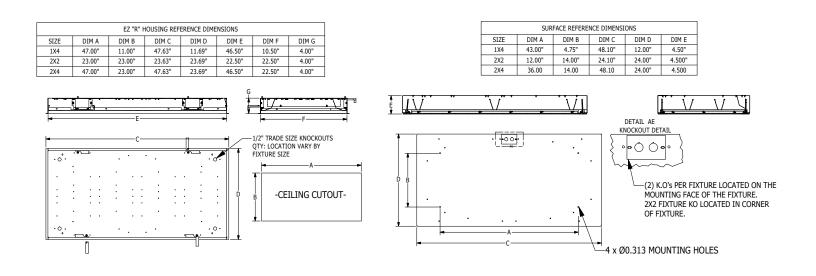
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts.

INSTALL SURFACE: Four .312" dia.mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts.

FINISH: Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes and surface housings are satin polished unless option WHT is chosen

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. 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 Food Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

PRODUCT DRAWINGS





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ENERGY DATA

OVERLAP-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)										
ENCLOSURE	LIGHT PACKAGE	80 CRI (3000K - 5000K)			MAX AMB	CCT RANGE				
SIZE		LUMENS	WATTS ²	EFFICACY ³	TEMP					
1X4	1LEDTW	3,450	34	101	40°C (104°F)	2700k - 6500k				
1X4	2LEDTW	7,050	68	104	40°C (104°F)	2700k - 6500k				
1X4	EM10	1010-1040*	4	NA	40°C (104°F)	NA				
2X2	2LEDTW	3,750	35	107	40°C (104°F)	2700k - 6500k				
2X2	3LEDTW	5,650	53	107	40°C (104°F)	2700k - 6500k				
2X2	4LEDTW	7,550	68	111	40°C (104°F)	2700k - 6500k				
2X2	EM10	1070-1110*	4	NA	40°C (104°F)	NA				
2X4	2LEDTW	7,800	68	115	40°C (104°F)	2700k - 6500k				
2X4	3LEDTW	11,700	103	114	40°C (104°F)	2700k - 6500k				
2X4	4LEDTW	15,600	135	116	40°C (104°F)	2700k - 6500k				
2X4	EM10	1140-1160*	4	NA	40°C (104°F)	NA				

1 DELIVERED LUMEN DATA IS CALCULATED BASED ON STATIC WHITE PHOTOMETRY @ 4000K CCT

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

5 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

6 EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*10