

NOTES

REV: 10/08/2019

Cleanroom KL Top Relamp Troffers

2x4 & 1x4 High Efficiency LED Luminaires with Top and Bottom Access

- Rated IP66
- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E class 1-100,000 Cleanspaces
- **ETL listed for Wet Locations**
- One piece overlapping doorframe
- Robotically seam welded housing
- 0-10v 1% Dimming Standard.
- Service to Luminare from Plenum Side of ceiling
- One Housing Suitable for Flange and Grid Installation.
- Made in the USA by a Family Owned US Corporation























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ORDERING GUIDE

Installation Type Material Voltage Options Source



Series	Installation Type	Material	Size	Source	ССТ	Voltage	Options
KL	R/TR: Recessed	1: White CRS Hsg. & White CRS Door	1x4: 1' x 4' Housing	1/LEDR	83 CRI:	120V	FC: Fuse & Holder (One Supplied Per Circuit)
	Top Relamp	2: White CRS Hsg. & Polished 304 SS Door		2/LEDR	830 = 3000K CCT	277V	2/ED: Two Drivers (Two Circuits)
	(Suitable for			2/LEDH	835 = 3500K CCT	UNV	EDL: -40F Electronic Driver
	Flange and Grid			2/LEDHF	840 = 4000K CCT	347V*	EM10: 10W Integral LED EM (Specify Input Voltage)
	Installations)				850 = 5000K CCT		EM20: 20W Remote LED EM (Specify Input Voltage)
			2x4: 2' x 4' Housing	2/LEDR			WHT: White Finished Door & HSG
				2/LEDH	90+ CRI:		LEX: .125" Prismatic Polycarbonate
				3/LEDR	935 = 3500K CCT		A19: .156" Prismatic P19 Pattern Clear Acrylic
				3/LEDH	940 = 4000K CCT		HIA: .140" High Impact P12 Pattern Clear Acrylic
				4/LEDR	950 = 5000K CCT		TG: .156" Prismatic Tempered Glass
				4/LEDH			SW: Wet Location Hub Supplied (not installed)
				4/LEDHF			PxL: Programmed to User Specified Lumen Value.
							PxW: Programmed to User Specified Wattage Value.
							10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit)
							GTD: Generator Transfer Device
							.125 FROST: 1/8" Frost Acrylic Lens
							OCCMW: Internal microwave OCC Sensor
							WHIP: Must Specify Length and Wire Qty
							6IT: 6in Toggle for 6" thick ceilings.



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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded 20Ga CRS housing has flattened knockouts for a superior seal. Gasketed top cover allows all services from above. Fully white powder coated.

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 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.

TOP COVER: Gasketed top cover is accessible from the plenum space only. Hinged to housing and then mechanically secured with 8-32 screws. Not suitable to be walked on.

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 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% for most LED configurations, 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.

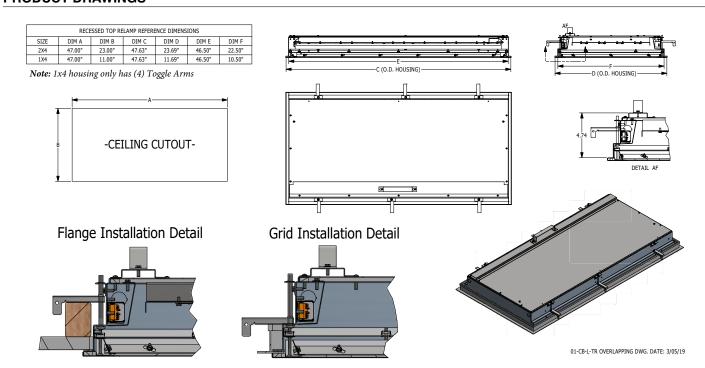
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Suitable for Grid or Flanged installation (must specify). Accommodates most 1" and 1.5" T-Bar Grid see below installation details. Four or six adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts located at the ends of the fixture.

FINISH: Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes 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





Cleanroom KL Top Relamp Troffers 2x4 & 1x4 High Efficiency LED Luminaires with Top and Bottom Access

ENERGY DATA

TR OVERLAP-FG-LED TROFFER (APPROX¹ LUMENS DELIVERED)													
ENCLOSURE	LIGHT PACKAGE	STANDARD DIMMING	83 CRI (3000K - 5000K)			AMBIENT TEMP		90+ CRI (3500K, 4000K)			AMBIENT TEMP		
SIZE			LUMENS	WATTS ²	EFFICACY ³	MINIMUM	MAXIMUM ⁴	LUMENS	WATTS ²	EFFICACY ³	MINIMUM	MAXIMUM ⁴	
1x4	1LEDR	0-10V 1%	4,100	37	110	-20°C (-4°F)	40°C (104°F)	2,800	34	82	-20°C (-4°F)	40°C (104°F)	
1x4	2LEDR	0-10V 1%	8,324	73	114	-20°C (-4°F)	40°C (104°F)	5,777	62	93	-20°C (-4°F)	40°C (104°F)	
1x4	2LEDH	0-10V 1%	12,642	103	123	-20°C (-4°F)	40°C (104°F)	12,449	146	85	-20°C (-4°F)	35°C (95°F)	
1x4	2LEDHF	0-10V 1%	15,800	139	114	-20°C (-4°F)	40°C (104°F)	15,546	183	85	-20°C (-4°F)	35°C (95°F)	
2X4	2LEDR	0-10V 1%	9,180	74	124	-20°C (-4°F)	40°C (104°F)	6,528	62	105	-20°C (-4°F)	40°C (104°F)	
2X4	3LEDR	0-10V 1%	13,770	111	124	-20°C (-4°F)	40°C (104°F)	9,797	94	104	-20°C (-4°F)	40°C (104°F)	
2X4	2LEDH	0-10V 1%	14,340	103	139	-20°C (-4°F)	40°C (104°F)	12,949	148	88	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDR	0-10V 1%	18,370	147	125	-20°C (-4°F)	40°C (104°F)	12,762	124	103	-20°C (-4°F)	40°C (104°F)	
2X4	3LEDH	0-10V 1%	21,060	153	138	-20°C (-4°F)	40°C (104°F)	19,549	221	88	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDH	0-10V 1%	27,597	208	133	-20°C (-4°F)	40°C (104°F)	25,898	295	88	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDHF	0-10V 1%	35,352	279	127	-20°C (-4°F)	35°C (95°F)	35,488	373	95	-20°C (-4°F)	35°C (95°F)	
2X4	EM10	NA	1180-1270	4	NA	0°C (32°F)	40°C (104°F)	880-1050	4	NA	0°C (32°F)	40°C	

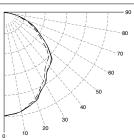
- 1 DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS, VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- ² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- ³ EFFICACY CALCULATED USING 4000K CCT DATA.
- 4 MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- ⁶ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

PHOTOMETRICS

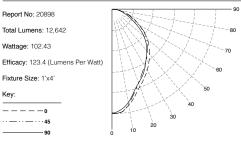
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KL-R/TR-X-2X4-4/LEDHF-835-UNV





KL-R/TR-5-1X4-2/LEDH-840-UNV



KL-R/TR-5-2X4-4/LEDH-840-UNV



