

# Cleanroom KL Amber Troffers - 5 Day Quick Ship

2x2 and 2x4 Amber/White LED Luminaires



- **IP66 Rated**
- **ETL listed for Wet Locations**
- **Suitable for ISO 3-9 Cleanspaces**
- **Suitable for 209E class 1-100,000 Cleanspaces**
- **Recessed Housing suitable for Tbar Grid AND Hardlid Installations**
- **One piece overlapping doorframe**
- **Robotically seam welded housing**
- **0-10v 1% Dimming Standard for most configurations.**
- **Narrow Spectrum 590nm True Amber LEDs**
- **Available With White / Amber LED Switching**
- **Made in the USA by a Family Owned US Corporation**
- **5 Day Quick Ship For Orders Under 25 Fixtures**



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## ORDERING GUIDE

Series	Installation Type	Material	Size	Amber LED	White LED	CCT (White LED)	Voltage	Options	Quick Ship
<b>KL</b>	<b>R</b>								<b>5DQS</b>
Series	Installation Type	Material	Size	Amber LED	White LED	CCT (White LED)	Voltage	Options	Quick Ship
KL	R: Recessed	3: White 430 SS Hsg. & Polished 304 SS Door 4: White AL Hsg. & Polished 304 SS Door 5: White AL Hsg. & White AL Door 7: White AL Hsg. & White CRS Door	2x2: 2' x 2' Housing MAX 4 Arrays Total OR 2x4: 2' x 4' Housing MAX 4 Arrays Total	1/YLED590 2/YLED590 3/YLED590 4/YLED590	1/LEDR 2/LEDR 3/LEDR	83 CRI: 835 = 3500K CCT 840 = 4000K CCT	120V 277V UNV	EM10: 10W Integral LED EM (Specify Input Voltage) EM20: 20W External LED EM (Specify Input Voltage) PxL: Programmed to User Specified Lumen Value. PxW: Programmed to User Specified Wattage Value. 10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit)	5DQS: (5-Day Quick Ship)

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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 .040" 3003 Aluminum or 20Ga 430 Stainless 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 hinged by aircraft cables and is supplied with captive stainless steel flush head screws to allow easy wiping of the surface. Available in .040" 3003 Powder coated Alum. , 20Ga 304 Polished SS, or 18Ga 1008 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:** Fixture available with Amber only or Amber & White LED's, each color will be supplied with its own driver for dual switching. Amber LED's provide a narrow 590nm spectrum for wavelength sensitive applications. White high efficiency LEDs are commercially available & available in a wide variety of CRI and CCT. All boards have zhaga recognized hole patterns and come with a 5 year warranty.

**DRIVERS:** Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% for most LED configurations. 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. (each color LED comes standard with its own driver)

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

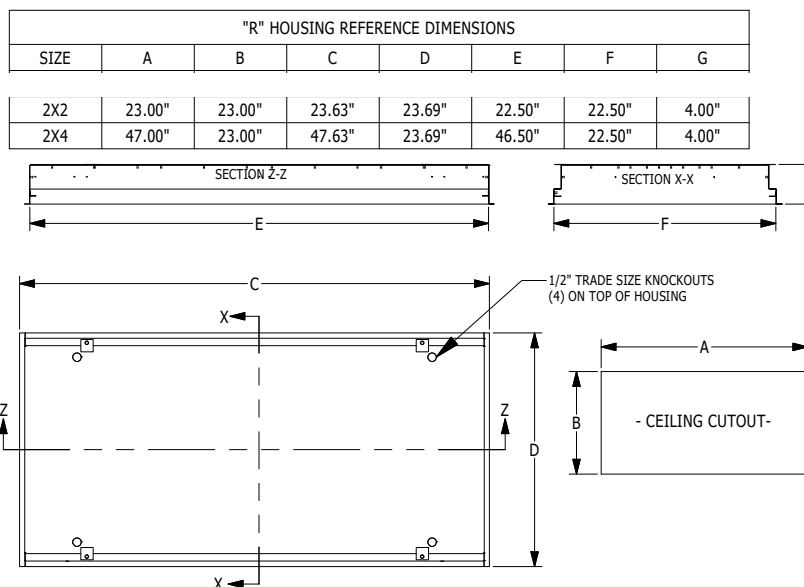
**INSTALL RECESSED:** 1 fixture suitable for Grid & Flanged installation. Accommodates 1" & 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). 4 adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts.

**FINISH:** Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes & 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. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

**5-DAY QUICK SHIP POLICY:** Quantity restriction of 25 fixtures. Once PO is received by 12:00 PM CST, shipping will occur within 5 business days. Standard freight applies. Expedited shipping to be paid by customer.

## PRODUCT DRAWINGS



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## ENERGY DATA

OVERLAP-FGRS-AMBER LED TROFFER										
ENCLOSURE SIZE	LED SELECTION	DIMMING	83 CRI			590nm (Amber)			AMBIENT TEMP RATING	
			LUMENS	WATTS	EFFICACY	LUMENS	WATTS	EFFICACY	MINIMUM	MAXIMUM <sup>3</sup>
2x2	1LEDR	0-10V 1%	2,220	19	117	NA			-20°C (-4°F)	40°C (104°F)
2x2	2LEDR	0-10V 1%	4,450	37.4	119				-20°C (-4°F)	40°C (104°F)
2x2	3LEDR	0-10V 1%	6,670	55.2	121				-20°C (-4°F)	40°C (104°F)
2X2	1YLED	0-10V 1%	NA			1,132	22	51	-20°C (-4°F)	40°C (104°F)
2X2	2YLED	0-10V 1%				2,264	43	53	-20°C (-4°F)	40°C (104°F)
2X2	3YLED	0-10V 1%				3,396	65	52	-20°C (-4°F)	40°C (104°F)
2X2	4YLED	0-10V 1%				4,528	86	53	-20°C (-4°F)	40°C (104°F)
2X4	1LEDR	0-10V 1%				4,590	38	121	NA	
2X4	2LEDR	0-10V 1%	9,180	74	124	-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)			
2X4	1YLED	0-10V 1%	NA			2,428	44	55	-20°C (-4°F)	40°C (104°F)
2X4	2YLED	0-10V 1%				4,856	87	56	-20°C (-4°F)	40°C (104°F)
2X4	3YLED	0-10V 1%				7,283	130	56	-20°C (-4°F)	40°C (104°F)
2X4	4YLED	0-10V 1%				9,711	173	56	-20°C (-4°F)	40°C (104°F)

<sup>1</sup> DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OTHER SELECTIONS ARE MADE  
<sup>2</sup> WATTAGE IS MEASURED WITH LED 840 SELECTION @ 120vAC AND Tambient = 25C. WATTAGES WILL VARY AND INCREASE WHEN ALTERNATE OPTIONS ARE SELECTED  
<sup>3</sup> MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. TEMP RATING IS WITH NO OTHER OPTIONS SELECTED. WHITE LEDS ONLY SUITABLE FOR 40C AMBIENT