

High Lumen 2x2 - KL Series: KL-FG-2x2LP-LEDFE

Recessed 2x2 Troffer for High End Cleanroom & Containment

- **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 5% Dimming Standard.**
- **Up to 40,000 Lm Delivered @ over 130 Lm/W**
- **Recessed Housing suitable for T-bar Grid & Hardlid Installations**
- **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-FG		2x2LP		LEDFE				
Series	Material	Size	Row Qty.	Light Source		Voltage	Optics	Options
KL-FG	1 White CRS Hsg. & White CRS Door	2x2LP 2' x 2' Housing <small>(Low Profile - Provided with high-powered linear modules. No heatsinks)</small>	4	LEDFE	80 CRI:	120V	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	SW Wet Location Hub Supplied (not installed)
			6			277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)	PxL * Programmed to User Specified Lumen Value.
	2 White CRS Hsg. & Polished SS Door	835 3500K	UNV			A19 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)	PxW * Programmed to User Specified Wattage Value.	
		840 4000K	347V			TG 0.156" Prismatic Tempered Glass (Inverted)	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)	
		850 5000K	HIA 0.140" P12 Prismatic High Impact Resistant Acrylic (Inverted)			GTD Generator Transfer Device		
			FROST* 0.125" Flat Diffusing Frost Acrylic			WHIP Must Specify Length and Wire Qty		
	6 White CRS Hsg. & White AL Door	2DBW 0.125" Flat Diffused Acrylic with Bi-Directional Batwing Distribution	OCCMW Internal microwave OCC Sensor					
		LBW 0.125" Flat Diffused Acrylic with Linear Batwing Distribution	FC Fuse & Holder (One Supplied Per Circuit)					
		GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution	EM20 20W Remote LED EM (Specify Input Voltage)					
			GG 1/8" Thick Grid Gasket (Provided Loose)					
				EDL -40F Electronic Driver				
				WHT White Finished Door & HSG				
				AMW Anti-Microbial White Powdercoat				
				2/ED Two Drivers/Two Circuits				

Note*: FROST option is standard and will be provided when no other option is selected

Note*: Specify Value in Ordering Notes Below

Ordering Notes, If Applicable

High Lumen 2x2 - KL Series: KL-FG-2x2LP-LEDFE

Recessed 2x2 Troffer for High End Cleanroom & Containment

SPECIFICATIONS

HOUSING: One piece, robotically seam welded, hole free 20-gauge CRS construction.

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. GG option provides a loose 1/8" thick adhesive backed gasket intended to adhere to the top face of a suspended grid ceiling for grid profiles that do not already have gasket on them.

OPTICS: Standard frost acrylic lens is provided when no other options are selected. All prismatic lensing options come with an inverted lens so the smooth side faces the room for easy cleaning. 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: Available with 4 or 6 linear modules that are available in 80CRI only. High efficiency modules do not require heat sinking allowing the luminaire to be smaller and lighter.

DRIVERS: Standard driver(s): Universal voltage (120-277 volt). LED drivers are commercially available high efficiency, HPF and dimmable with 0-10v control. Standard drivers are programmable to match wattage or lumen requirements. Provided with a five (5) year warranty.

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

INSTALLATION FLANGE: Adjustable toggle arm mounting standard. Seismic support wire attachment locations. Supply entry via 1/2" trade size flattened knockouts. Suitable for through wiring.

INSTALLATION GRID: Standard luminaires accommodate 1.0" & 1.5" and some 2.0" T-Bar Grid. Four adjustable toggles have holes for cable attachment point for seismic support. Supply entry via 1/2" trade size flattened knockouts. Suitable for through wiring.

FINISH: Stainless steel door frames are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat 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. 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 & 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.

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ENERGY DATA - LOW PROFILE (2x2LP)

OVERLAP-FG-2X2LP-4or6 LED							
ENCLOSURE SIZE	LIGHT PACKAGE	DIMMING	80 CRI (3000K-5000K)			AMBIENT TEMP RATINGS	
			Lumens ¹	Wattage ²	Efficacy ³	MINIMUM	MAXIMUM ⁴
2X2LP	FROST LENS 4LEDFE	0-10V 5%	26,000	214	121	-40°C (-40°F)	50°C (122°F)
2X2LP	FROST LENS 6LEDFE	0-10V 5%	39,000	321	121	-40°C (-40°F)	50°C (122°F)
2X2LP	20W EM ⁵	NA	2,420	9	NA	0°C (32°F)	45°C (113°F)

- 1 DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @ 25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OTHER SELECTIONS ARE MADE
- 2 WATTAGE IS MEASURED WITH LED 750 SELECTION @ 120vAC AND Tambient = 25C. WATTAGES WILL VARY AND INCREASE WHEN ALTERNATE OPTIONS ARE SELECTED
- 3 EFFICACY CALCULATED USING LOWEST CCT @ 25C AMBIENT VARIATIONS MAY OCCUR
- 4 MAX TEMP RATING IS WITH NO OTHER OPTIONS SELECTED.
- 5 INITIAL LUMEN VALUE CALCULATED BY (20W)*(NORMAL LUMENS/NORMAL WATTAGE).

PRODUCT DRAWINGS - LOW PROFILE (2x2LP)

