

High Lumen 2x2 - KL Series: KL-FG-2x2-LEDB

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**
- **Frost Acrylic Lens Standard**
- **BAA 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								
Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Voltage	Optics	Options
KL-FG	1 White CRSHsg.&White CRS Door	2x2 2' x 2' Housing	3	LEDB	70 CRI:	120V	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	SW Wet Location Hub Supplied (not installed)
			4		750 5000K	277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)	PxL * Programmed to User Specified Lumen Value.
	2 White CRS Hsg. & Polished SS Door				80 CRI:	UNV	A19 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)	PxW * Programmed to User Specified Wattage Value.
					835 3500K	347V	TG 0.156" Prismatic Tempered Glass (Inverted)	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)
	6 White CRS Hsg. & White AL Door				840 4000K		HIA 0.140" P12 Prismatic High Impact Resistant Acrylic (Inverted)	GTD Generator Transfer Device
					850 5000K		FROST* 0.125" Flat Diffusing Frost Acrylic	WHIP Must Specify Length and Wire Qty
					90+ CRI:		2DBW 0.125" Flat Diffused Acrylic with Bi-Directional Batwing DISTRIBUTION	OCCMW Internal microwave OCC Sensor
					935 3500K		LBW 0.125" Flat Diffused Acrylic with Linear Batwing Distribution	FC Fuse & Holder (One Supplied Per Circuit)
					940 4000K		GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution	EM20 20W Remote LED EM (Specify Input Voltage)
					950 5000K			GG 1/8" Thick Grid Gasket (Provided Loose)
							Note*: FROST option is standard and will be provided when no other option is selected	EDL -40F Electronic Driver
	1 White CRS Hsg. & White CRS Door	2x2LP 2' x 2' Housing (Low Profile - Provided with high-powered linear modules. No heatsinks.)	4	LEDFE	80 CRI:			WHT White Finished Door & HSG
			6		830 3000K			AMW Anti-Microbial White Powdercoat
	2 White CRS Hsg. & Polished SS Door				835 3500K			2/ED Two Drivers/Two Circuits
	6 White CRS Hsg. & White AL Door				840 4000K			
					850 5000K			

Ordering Notes, If Applicable

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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: Replaceable 3 or 4 COB array using commercial available LED's installed directly onto thermal management system. Available in a wide variety of CCTs ranging from 2700-6500K. Also available in 70, 80, or 90CRI. 5 Year warranty. Also available with up to 6 linear modules for a more uniform distribution, selecting the 2X2LP option will remove the heatsink from the enclosure.

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 programable 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 is Buy American Act (B.A.A.) compliant.

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ENERGY DATA

OVERLAP-FG-2X2-3or4LED GEN2													
ENCLOSURE SIZE	LIGHT PACKAGE	DIMMING	70 CRI (5000K)			80 CRI (3000K-5000K)			90 CRI (3500K-5000K)			AMBIENT TEMP RATINGS	
			Lumens ¹	Wattage ²	Efficacy ³	Lumens ¹	Wattage ²	Efficacy ³	Lumens ¹	Wattage ²	Efficacy ³	MINIMUM	MAXIMUM ⁴
2X2	FROST LENS 3LEDB	0-10V 5%	32,600	250	130	29,800	250	119	25,500	250	102	-40°C (-40°F)	50°C (122°F)
2X2	FROST LENS 4LEDB	0-10V 5%	42,000	330	127	38,600	330	117	32,800	330	99	-40°C (-40°F)	50°C (122°F)
2X2	CLEAR LENS 3LEDB	0-10V 5%	34,500	250	138	31,500	250	126	27,000	250	108	-40°C (-40°F)	50°C (122°F)
2X2	CLEAR LENS 4LEDB	0-10V 5%	44,500	330	135	40,900	330	124	34,700	330	105	-40°C (-40°F)	50°C (122°F)
2X2	20W EM ⁵	NA	2540-2760	9	NA	2340-2520	9	NA	1980-2160	9	NA	0°C (32°F)	45°C (113°F)

¹ DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @ 25°C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OTHER SELECTIONS ARE MADE

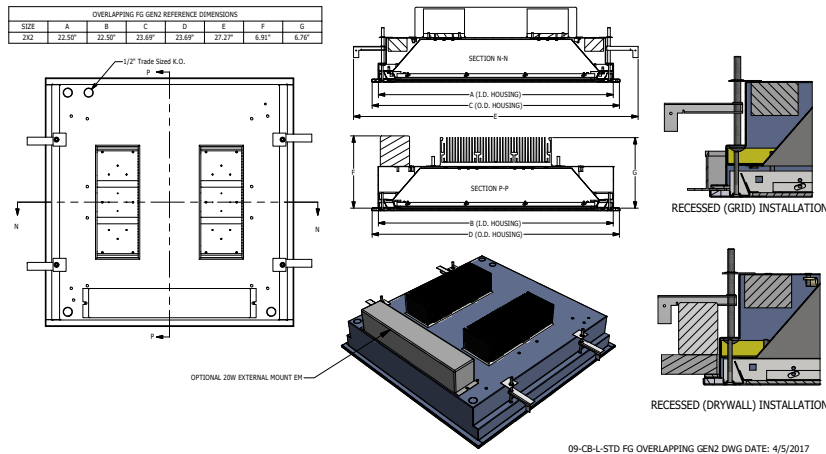
² WATTAGE IS MEASURED WITH LED 750 SELECTION @ 120vAC AND Tambient = 25°C. WATTAGES WILL VARY AND INCREASE WHEN ALTERNATE OPTIONS ARE SELECTED

³ EFFICACY CALCULATED USING LOWEST CCT @ 25°C 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

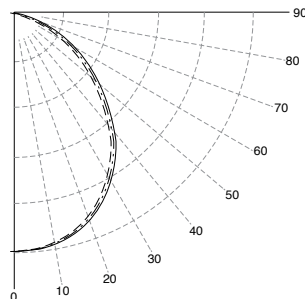


PHOTOMETRICS

125" ACRYLIC

Key:

— 0
- - - 45
— 90



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ENERGY DATA - LOW PROFILE (2x2LP)

OVERLAP-FG-2X2LP-4or6 LED													
ENCLOSURE SIZE	LIGHT PACKAGE	DIMMING	70 CRI (5000K)			80 CRI (3000K-5000K)			90 CRI (3500K-5000K)			AMBIENT TEMP RATINGS	
			Lumens ¹	Wattage ²	Efficacy ³	Lumens ¹	Wattage ²	Efficacy ³	Lumens ¹	Wattage ²	Efficacy ³	MINIMUM	MAXIMUM*
2X2LP	FROST LENS 4LEDFE	0-10V 5%	N/A			26,000	214	121	N/A			-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	N/A			2,420	9	NA	N/A			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)

