

High Lumen 2x2 - TL Series: TL-FG-2X2LP-LED FE

Recessed 2x2 Troffer for Cleanroom & Containment

- **Rated IP65**
- **Suitable for ISO 3-9 Cleanspaces**
- **Suitable for 209E class 1-100,000 Cleanspaces**
- **ETL listed for Wet Locations**
- **One Piece Inset 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**



DISCLAIMER: Although KURTZON has prepared the information contained in this document with all due care, KURTZON does not warrant or represent that the information is free from errors or omission. Whilst the information is considered to be true and correct at the date of publication, changes in circumstances after the time of publication may impact on the accuracy of the information. The information may change without notice and KURTZON is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.



ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Voltage	Optics	Options			
TL-FG		2x2LP		LED FE							
Series	Material	Size	Row Qty.	Light Source			Optics	Options			
TL-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	LED FE	83 CRI:	120V	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	SW	Wet Location Hub Supplied (not installed)		
			6					835 3500K	277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)	PxL *
	2 White CRS Hsg. & Polished SS Door		840 4000K					UNV	A19 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)	PxW *	Programmed to User Specified Wattage Value.
			850 5000K					347V	TG 0.156" Prismatic Tempered Glass (Inverted)	10KV	10KV Parallel Surge Protection (One Supplied Per Circuit)
	6 White CRS Hsg. & White AL Door		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		
			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*: Specify Value in Ordering Notes Below

Ordering Notes, If Applicable

High Lumen 2x2 - TL Series: TL-FG-2X2LP-LED FE

Recessed 2x2 Troffer for Cleanroom & Containment

SPECIFICATIONS

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

DOOR FRAME: One piece inset door frame with seam welds regressing into housing to allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and secures to housing with captive stainless steel pan head screws. 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 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: IP65 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.

High Lumen 2x2 - TL Series: TL-FG-2X2LP-LED FE

Recessed 2x2 Troffer for Cleanroom & Containment

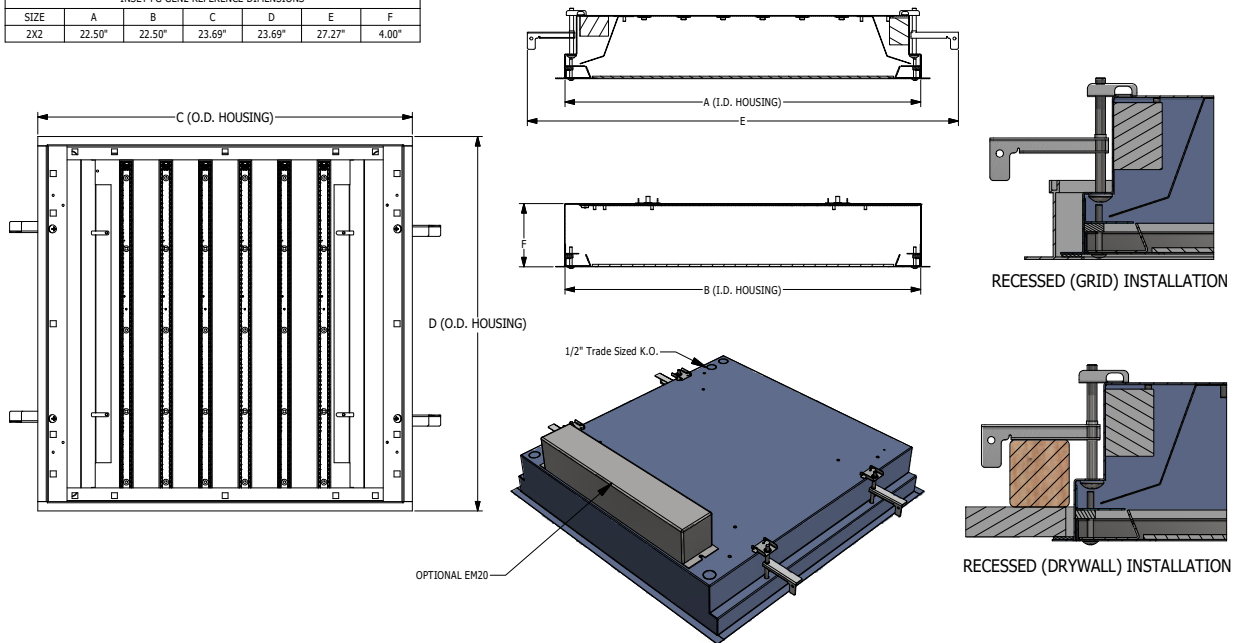
ENERGY DATA - LOW PROFILE (2x2LP)

INSET-FG-2X2LP-4 OR 6 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%	24,600	214	115	-40°C (-40°F)	50°C (122°F)
2X2LP	FROST LENS 6LEDFE	0-10V 5%	36,900	321	115	-40°C (-40°F)	50°C (122°F)
2X2LP	20W EM ⁶	NA	2,300	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.
- ⁶ INITIAL LUMEN VALUE CALCULATED BY (20W)*(NORMAL LUMENS/NORMAL WATTAGE).

PRODUCT DRAWINGS - LOW PROFILE (2x2LP)

INSET FG GEN2 REFERENCE DIMENSIONS						
SIZE	A	B	C	D	E	F
2X2	22.50"	22.50"	23.69"	23.69"	27.27"	4.00"



09-BB-L-STD FGLP INSET GEN2 DWG DATE: 9/11/2020