

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

Recessed 2x2 Troffer for Entry Level Cleanrooms

- **Rated IP55**
- **Suitable for ISO 5-9 Cleanspaces**
- **Suitable for 209E class 100-100,000 Cleanspaces**
- **ETL listed for Wet Locations**
- **Channel Inset Door Frame**
- **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
EL-FG		2x2LP		LED FE				
Series	Material	Size	Light Source			Voltage	Optics	Options
EL-FG	2 White CRS Hsg. & Polished SS Door	2x2LP 2' x 2' Housing <small>(Low Profile - Provided with high-powered linear modules. No heatsinks)</small>	Row Qty.	LED Type	CCT/CRI	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	SW Wet Location Hub Supplied (not installed)	
			4	LED FE	83 CRI:			
	6 White CRS Hsg. & White AL Door		6		835 3500K	277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)	PxL * Programmed to User Specified Lumen Value.
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)	
						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

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SPECIFICATIONS

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

DOOR FRAME: Inset door frame made from welded channels regresses into the housing to allow the neoprene 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.

GASKETS: Closed cell 100% pure neoprene 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 the 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 and silicone sealed 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: IP55 rated for dust and water ingress. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 5 through class 9 cleanspaces. Certified Fed Std 209E for Class 100 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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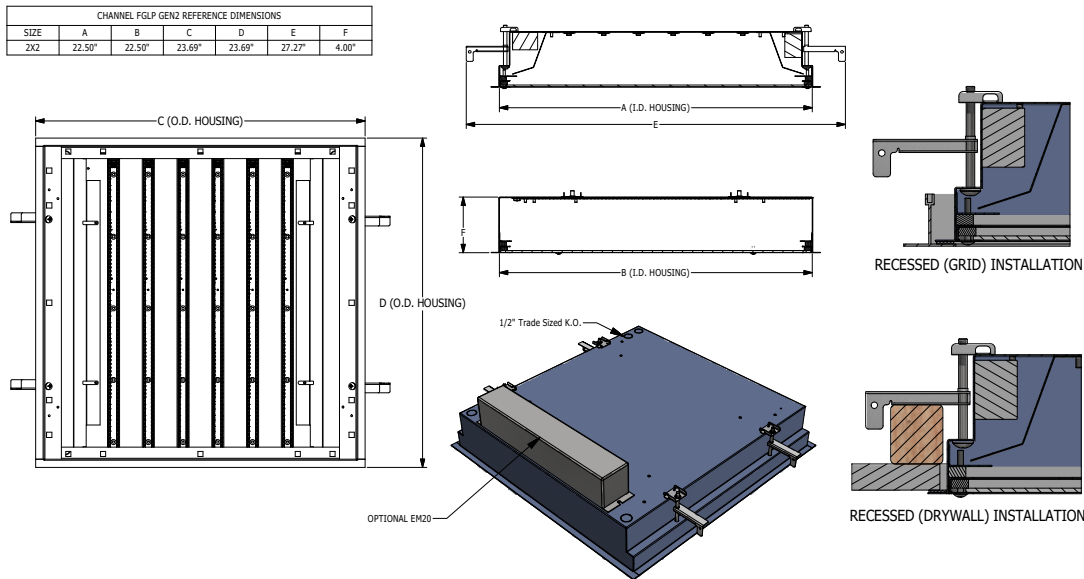
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ENERGY DATA - LOW PROFILE (2x2LP)

CHANNEL-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%	26,900	214	126	-40°C (-40°F)	50°C (122°F)
2X2LP	FROST LENS 6LEDFE	0-10V 5%	40,400	321	126	-40°C (-40°F)	50°C (122°F)
2X2LP	20W EM ⁵	NA	2,520	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 OPTOINS 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)



09-AB-L-STD FGLP CHANNEL GEN2 DWG DATE: 9/11/2020