

Hazardous X12 EL Troffers

1x4, 2x2 and 2x4 Hazardous Location LED Luminaires

- **Suitable For Use In Class 1 Division 2 Groups A, B, C, & D Installations**
- **IP55 Rating**
- **ETL listed for wet locations**
- **Recessed housing suitable for Tbar grid and hardlid installations.**
- **0-10V dimming to 10% standard**
- **Made in the USA by a Family Owned US Corporation**



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ORDERING GUIDE

Series	Installation Type	Material	Size	Source	CCT	Voltage	Options
ELX12							

Series	Installation Type	Material	Size	Source	CCT	Voltage	Options
ELX12	R: Recessed (Suitable for both Flange and Grid Installations)	3: White 430 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	2/LEDR	80 CRI: 830 = 3000K CCT	120V 277V UNV 347V*	H/FC: Fuse & Holder (One Supplied Per Circuit) 2/ED: Two Drivers (Two Circuits) EDL: -40F Electronic Driver H/EM: 10W Integral LED EM (Specify Input Voltage) WHT: White Finished Door & HSG LEX: .125" Prismatic Polycarbonate A19: .156" Prismatic P19 Pattern Clear Acrylic HIA: .140" High Impact P12 Pattern Clear Acrylic TG: .156" Prismatic C73 Tempered Glass PxL: Programmed to User Specified Lumen Value. PxW: Programmed to User Specified Wattage Value. WHIP: Must Specify Length and Wire Qty
		4: White AL Hsg. & Polished 304 SS Door		2/LEDH			
		5: White AL Hsg. & White AL Door	2/LEDR	840 = 4000K CCT			
	S: Surface	OR	2x2: 2' x 2' Housing	3/LEDR	850 = 5000K CCT		
				3/LEDH	90 CRI: 935 = 3500K CCT		
		6: White CRS Hsg. & White AL Door	4/LEDR	940 = 4000K CCT			
	OR	2x4: 2' x 4' Housing	3/LEDR				
			3/LEDH				
			4/LEDR				

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened, silicone sealed knockouts for a superior seal. Recessed housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel. Surface housings are available in .040" 3003 Aluminum, 20Ga 430 Stainless Steel, or 20Ga 1008 Cold Rolled Steel.

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.

LENS: High durability .135" thick virgin acrylic with P12 prismatic pattern inverted. See "Options" for other choices.

LEDS: Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

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.

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

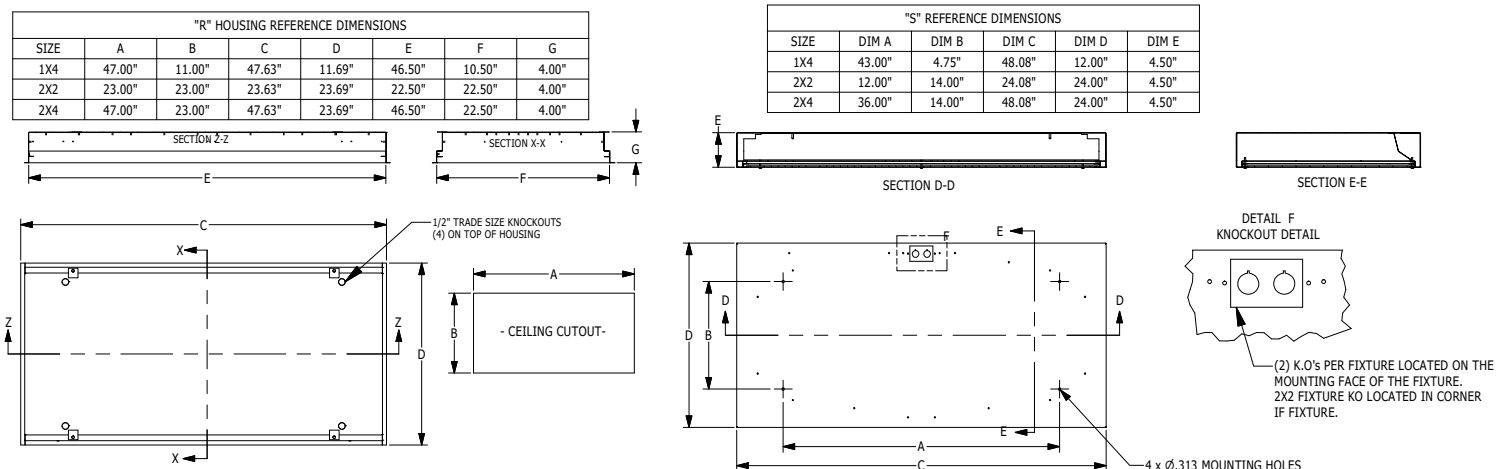
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened and silicone sealed knockouts.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

INSTALL SURFACE: Four .312" dia. mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened and silicone sealed knockouts.

FINISH: Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all housings. Stainless steel doorframes are satin polished unless option WHT is chosen.

LISTINGS: Listed for Class I Division II Groups A,B,C & D hazardous locations. 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. Optionally NSF2 Listed for Non-Food Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

PRODUCT DRAWINGS



Hazardous X12 EL Troffers

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ENERGY DATA

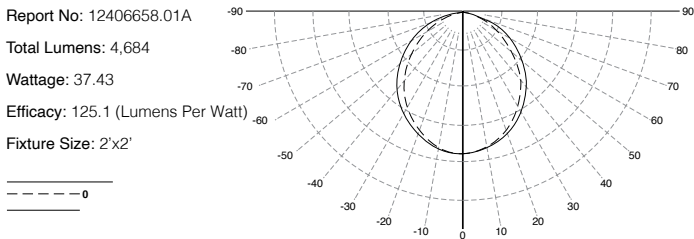
HAZ CLASS 1 DIVISION 2 CHANNEL-FGS-LED TROFFER (APPROX ⁴ LUMENS DELIVERED)											
ENCLOSURE SIZE	LIGHT PACKAGE	80 CRI (3000K - 5000K)				90 CRI (3500K, 4000K)				HAZ LOCATION TEMP CODE	STANDARD DIMMING
		LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP	LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP ⁴		
1X4	2LEDR	8,941	73	122	40°C (104°F)	5,812	62	94	40°C (104°F)	T4A	0-10V 10%
1X4	2LEDH	12,569	102	123	40°C (104°F)	12,545	146	86	35°C (95°F)	T4A	0-10V 10%
2X2	2LEDR	4,684	37	125	40°C (104°F)	2,953	32	92	40°C (104°F)	T4A	0-10V 10%
2X2	3LEDR	6,985	55	127	40°C (104°F)	4,498	48	94	40°C (104°F)	T4A	0-10V 10%
2X2	2LEDH	6,551	51	128	40°C (104°F)	5,645	73	77	40°C (104°F)	T4A	0-10V 10%
2X2	3LEDH	9,951	77	129	40°C (104°F)	8,972	110	82	35°C (95°F)	T4A	0-10V 10%
2X2	4LEDR	9,199	73	126	40°C (104°F)	5,614	62	91	40°C (104°F)	T4A	0-10V 10%
2X4	2LEDR	9,625	74	130	40°C (104°F)	6,567	62	106	40°C (104°F)	T4A	0-10V 10%
2X4	3LEDR	14,380	111	129	40°C (104°F)	9,856	94	105	40°C (104°F)	T4A	0-10V 10%
2X4	2LEDH	14,271	103	138	40°C (104°F)	13,028	148	88	40°C (104°F)	T4A	0-10V 10%
2X4	3LEDH	20,949	153	137	40°C (104°F)	19,667	221	89	35°C (95°F)	T4A	0-10V 10%
2X4	4LEDR	18,780	147	128	40°C (104°F)	12,838	124	104	40°C (104°F)	T4A	0-10V 10%

- ¹ DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- ² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- ³ EFFICACY CALCULATED USING 4000K CCT DATA.
- ⁴ MAX AMBIENT TEMP RATING AS SPECIFIED ON SAFETY REPORT, NON-IC INSTALLATION.

PHOTOMETRICS

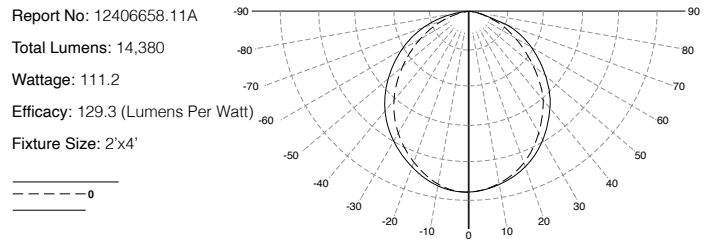
ELX12-R-5-2X2-2/LEDR-840-UNV

Report No: 12406658.01A
 Total Lumens: 4,684
 Wattage: 37.43
 Efficacy: 125.1 (Lumens Per Watt)
 Fixture Size: 2'x2'



ELX12-R-5-2X4-3/LEDR-840-UNV

Report No: 12406658.11A
 Total Lumens: 14,380
 Wattage: 111.2
 Efficacy: 129.3 (Lumens Per Watt)
 Fixture Size: 2'x4'



ELX12-R-5-1x4-1/LEDR-840-UNV

Report No: 12406658.06A
 Total Lumens: 4,673
 Wattage: 37.36
 Efficacy: 125.1 (Lumens Per Watt)
 Fixture Size: 1'x4'

