

Cleanroom EL Green Troffers

1x4, 2x2 and 2x4 Green/White LED Luminaires

- ETL Listed for Wet Locations
- IP55 Rated
- Suitable for ISO 5-9 Cleanspaces
- Suitable for FED Std 209E Class 100-100,000 Cleanspaces
- Channel inset door frame
- Robotically seam welded housing
- Narrow spectrum 540nm Green LEDs
- White/Green separately controlled circuits
- Recessed housing suitable for Tbar Grid and Hardlid installations
- Made in the USA by a Family Owned US Corporation



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ORDERING GUIDE

Series	Installation Type	Material	Size	Green LED	White LED	CCT (White LED)	Voltage	Options
EL	R: Recessed (Suitable for Flange & Grid Installations)	3: White 430 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	1/GLED540	1/LEDR	83 CRI:	120V	FC: Fuse & Holder (One Supplied Per Circuit)
		4: White AL Hsg. & Polished 304 SS Door	MAX 3 Arrays Total (2 Max Per Color)	2/GLED540	1/LEDH	830 = 3000K CCT	277V	2/EDW: Two Circuits of White Light
		5: White AL Hsg. & White AL Door			1/LEDHF	835 = 3500K CCT	UNV	2/EDG: Two Circuits of Green Light
	S: Surface	2: White CRS Hsg. & Polished 304 SS Door 3: Polished 304 SS Hsg. & Polished 304 SS Door 4: White AL Hsg. & Polished 304 SS Door 5: White AL Hsg. & White AL Door 6: White CRS Hsg. & White AL Door	2x2: 2' x 2' Housing	1/GLED540	1/LEDR	840 = 4000K CCT	347V*	EDL: -40F Electronic Driver
			MAX 4 Arrays Total OR	2/GLED540	1/LEDH	850 = 5000K CCT		EM10: 10W Integral LED EM (Specify Input Voltage)
			2x4: 2' x 4' Housing	3/GLED540	1/LEDHF	90+ CRI:		EM20: 20W Remote LED EM (Specify Input Voltage)
		2x4: 2' x 4' Housing	4/GLED540	2/LEDR	935 = 3500K CCT		WHT: White Finished Door & HSG	
		MAX 4 Arrays Total		2/LEDH	940 = 4000K CCT		LEX: .125" Prismatic Polycarbonate	
				2/LEDHF	950 = 5000K CCT		A19: .125" Prismatic P19 Pattern Clear Acrylic	
				3/LEDR			HIA: .140" High Impact P12 Pattern Clear Acrylic	
				3/LEDH			TG: .156" Prismatic Tempered Glass	
				3/LEDHF			SW: Wet Location Hub Supplied (not installed)	
							PxL: Programmed to User Specified Lumen Value.	
							PxW: Programmed to User Specified Wattage Value.	
							10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit)	
							GTD: Generator Transfer Device	
							WHIP: Must Specify Length and Wire Qty	
							.125 FROST: 1/8" Frost Acrylic Lens	
							HF1: 1% Dimming for 2x2 with LEDHF	
							OCCMW: Internal microwave OCC Sensor	

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened 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: Impact resistant .135" thick virgin acrylic with P12 prismatic pattern inverted. See "Options" for other choices.

LEDS: Fixture available with Green only or Green & White LED's, each color will be supplied with its own driver for dual switching. Green LEDs provide a narrow 540nm spectrum. White high efficiency LEDs are commercially available & in a wide variety of CRI and CCT. All boards have zhaga recognized hole patterns and come with a 5 year warranty.

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. (each color LED comes standard with its own driver)

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

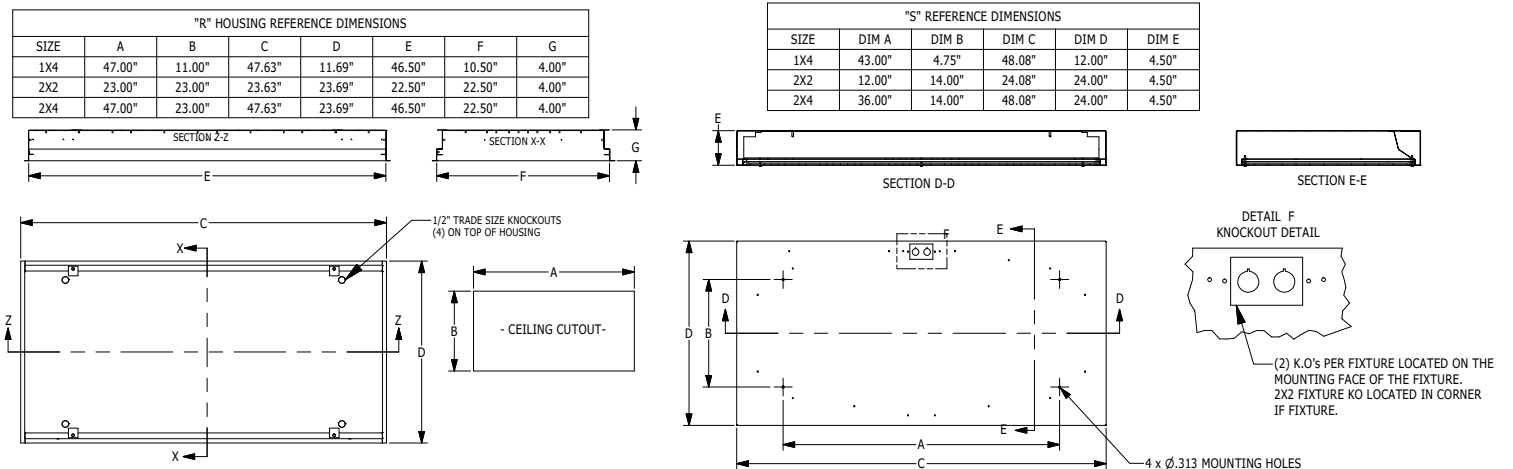
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts. Non-IC installation

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



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1x4, 2x2 and 2x4 Green/White LED Luminaires

ENERGY DATA - WHITE LED

CHANNEL-FGRS-GREEN LED TROFFER										
ENCLOSURE SIZE	LED SELECTION	DIMMING	83 CRI			90+ CRI			AMBIENT TEMP RATING	
			LUMENS	WATTS	EFFICACY	LUMENS	WATTS	EFFICACY	MINIMUM	MAXIMUM ³
1x4	1LEDR	0-10V 1%	4,673	37	125	2,880	34	85	-20°C (-4°F)	40°C (104°F)
1X4	1LEDH	0-10V 1%	6,669	51	130	6,200	74	84	-20°C (-4°F)	40°C (104°F)
1X4	1LEDHF	0-10V 1%	7,900	83	95	8,030	91	88	-20°C (-4°F)	40°C (104°F)
2x2	1LEDR	0-10V 1%	2,300	19	121	1450	17	85	-20°C (-4°F)	40°C (104°F)
2x2	1LEDH	0-10V 1%	3,270	27	121	2800	37	76	-20°C (-4°F)	40°C (104°F)
2x2	1LEDHF	0-10V 5%	5,200	43	121	4,190	46	91	-20°C (-4°F)	40°C (104°F)
2x2	2LEDR	0-10V 1%	4,684	37.4	125	2953	32	92	-20°C (-4°F)	40°C (104°F)
2x2	2LEDH	0-10V 1%	6,551	51.2	128	5645	73	77	-20°C (-4°F)	40°C (104°F)
2x2	2LEDHF	0-10V 5%	10,400	86	121	8,380	92	91	-20°C (-4°F)	40°C (104°F)
2x2	3LEDR	0-10V 1%	6,985	55.2	127	4498	48	94	-20°C (-4°F)	40°C (104°F)
2x2	3LEDH	0-10V 1%	9,951	76.9	129	8972	110	82	-20°C (-4°F)	40°C (104°F)
2x2	3LEDHF	0-10V 5%	15,600	129	121	12,570	138	91	-20°C (-4°F)	40°C (104°F)
2X4	1LEDR	0-10V 1%	4,700	38	124	3200	32	100	-20°C (-4°F)	40°C (104°F)
2X4	1LEDH	0-10V 1%	7,000	51	137	6,500	75	87	-20°C (-4°F)	40°C (104°F)
2X4	1LEDHF	0-10V 1%	8,800	70	126	8,953	93	96	-20°C (-4°F)	40°C (104°F)
2X4	2LEDR	0-10V 1%	9,625	74	130	6,567	62	106	-20°C (-4°F)	40°C (104°F)
2X4	2LEDH	0-10V 1%	14,271	103	138	13,028	148	88	-20°C (-4°F)	40°C (104°F)
2X4	2LEDHF	0-10V 1%	17,600	140	126	17,905	187	96	-20°C (-4°F)	40°C (104°F)
2X4	3LEDR	0-10V 1%	14,380	111	129	9,856	94	105	-20°C (-4°F)	40°C (104°F)
2X4	3LEDH	0-10V 1%	20,949	153	137	19,667	221	89	-20°C (-4°F)	40°C (104°F)
2X4	3LEDHF	0-10V 1%	26,400	210	126	26,858	280	96	-20°C (-4°F)	40°C (104°F)

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

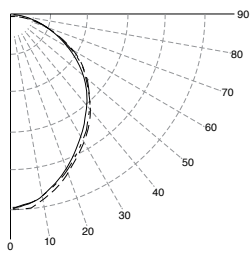
² WATTAGE IS MEASURED WITH LED 840 SELECTION @ 120VAC AND Tambient = 25C. WATTAGES WILL VARY AND INCREASE WHEN ALTERNATE OPTIONS ARE SELECTED

³ MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING IS WITH NO OTHER OPTIONS SELECTED. WHITE LEDS ONLY SUITABLE FOR 40C AMBIENT

PHOTOMETRICS

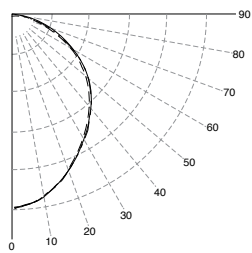
EL-R-5-1X4-1/LEDH-840-UNV

Report No: 20895
 Total Lumens: 6,669
 Wattage: 51.12
 Efficacy: 130.5 (Lumens Per Watt)
 Fixture Size: 1'x4'
 Key:
 --- 0
 - - - 45
 ——— 90



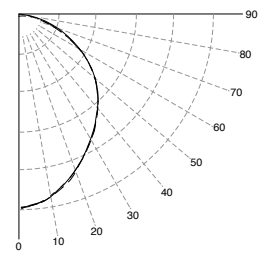
EL-R-5-2X2-3/LEDH-840-UNV

Report No: 20900
 Total Lumens: 9,951
 Wattage: 76.83
 Efficacy: 129.5 (Lumens Per Watt)
 Fixture Size: 2'x2'
 Key:
 --- 0
 - - - 45
 ——— 90



EL-R-5-2X4-3/LEDH-840-UNV

Report No: 20905
 Total Lumens: 20,949
 Wattage: 153.11
 Efficacy: 136.8 (Lumens Per Watt)
 Fixture Size: 2'x4'
 Key:
 --- 0
 - - - 45
 ——— 90



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ENERGY DATA - COLOR LED

CHANNEL-FGRS-GREEN LED TROFFER							
ENCLOSURE SIZE	LED SELECTION	DIMMING	540nm (GREEN)			AMBIENT TEMP RATING	
			LUMENS	WATTS	EFFICACY	MINIMUM	MAXIMUM ³
1X4	1GLED	0-10V 1%	2,641	38.0	69.5	-20°C (-4°F)	40°C (104°F)
1X4	2GLED	0-10V 1%	5,339	73.0	73.1	-20°C (-4°F)	40°C (104°F)
2X2	1GLED	0-10V 1%	1,370	20.0	68.5	-20°C (-4°F)	40°C (104°F)
2X2	2GLED	0-10V 1%	2,741	38.0	72.1	-20°C (-4°F)	40°C (104°F)
2X2	3GLED	0-10V 1%	4,111	56.0	73.4	-20°C (-4°F)	40°C (104°F)
2X2	4GLED	0-10V 1%	5,481	73.0	75.1	-20°C (-4°F)	40°C (104°F)
2X4	1GLED	0-10V 1%	2,805	38.0	73.8	-20°C (-4°F)	40°C (104°F)
2X4	2GLED	0-10V 1%	5,609	73.0	76.8	-20°C (-4°F)	40°C (104°F)
2X4	3GLED	0-10V 1%	8,414	111.0	75.8	-20°C (-4°F)	40°C (104°F)
2X4	4GLED	0-10V 1%	9,920	145.0	68.4	-20°C (-4°F)	40°C (104°F)

* View previous page for energy data notes.