

Indoor Sports Troffers

1x4, 2x2 and 2x4 High Durability LED Luminaires

- For handball, squash, racketball, and other indoor sports applications
- Optional "GDF" frame provides door with integral grill
- Polycarbonate lensing standard
- Recessed or surface mounting options available.
- Made in the USA by a Family Owned US Corporation



GDF Option



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ORDERING GUIDE

Series Installation Material Size Source CCT Voltage Options

IS

Series	Installation Type	Material	Size	Source	CCT	Voltage	Options	
IS	R: Recessed (Suitable for Flange & Grid)	3: White 430 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	1/LEDR	80 CRI: 830 = 3000K CCT 835 = 3500K CCT 840 = 4000K CCT	120V 277V UNV 347V*	FC: Fuse & Holder (One Supplied Per Circuit) 2/ED: Two Drivers (Two Circuits) EDL: -40F Electronic Driver EM10: 10W Integral LED EM (Specify Input Voltage) EM20: 20W Remote mount LED EM (Specify Input Voltage) WHT: White Finished Door & HSG PMB: Pendant Mounting Bracket (Surface Housing Only) HIA: .140" High Impact P12 Pattern Clear Acrylic TG: .156" Prismatic Tempered Glass SW: Wet Locatoin Hub Supplied (not installed) PXL: Programmed to User Specified Lumen Value.∞ PkW: 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 GDF: CRS Door Frame with Integral Grill (2x2 or 2x4 only) TP: SS Tamperproof Fasteners (Torx Head) A19: .156" Prismatic P19 Pattern Clear Acrylic	
		4: White AL Hsg. & Polished 304 SS Door		2/LEDR				850 = 5000K CCT
		5: White AL Hsg. & White AL Door		2/LEDH				
		7: White AL Hsg. & White CRS Door	2/LEDHF					
			2x2: 2' x 2' Housing OR 2x4: 2' x 4' Housing	2/LEDR				
				2/LEDH				
	S: Surface	1: White CRS Hsg. & White CRS Door	1x4: 1' x 4' Housing	1/LEDR	90 CRI: 935 = 3500K CCT 940 = 4000K CCT			
				2: White CRS Hsg. & Polished 304 SS Door		2/LEDR		
				3: White 430 SS Hsg. & Polished 304 SS Door		2/LEDH		
		4: White AL Hsg. & Polished 304 SS Door	2/LEDHF					
		5: White AL Hsg. & White AL Door	2x2: 2' x 2' Housing OR 2x4: 2' x 4' Housing	2/LEDR				
		6: White CRS Hsg. & White AL Door		2/LEDH				
7: White AL Hsg. & White CRS Door		3/LEDR						
		3/LEDH						
		4/LEDR						
		4/LEDH						
		4/LEDHF						

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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 Cold Rolled Steel.

DOOR FRAME: One piece inset door frame with seam welds regressing flush into the housing while creating a seal. 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. Optional CRS door frame with an integral grill available for 2x2 or 2x4 housings

GASKETS: Closed cell 100% pure neoprene gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

LENS: High durability .125" thick polycarbonate with P12 prismatic pattern inverted. Factory sealed to door with silicone. 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%.

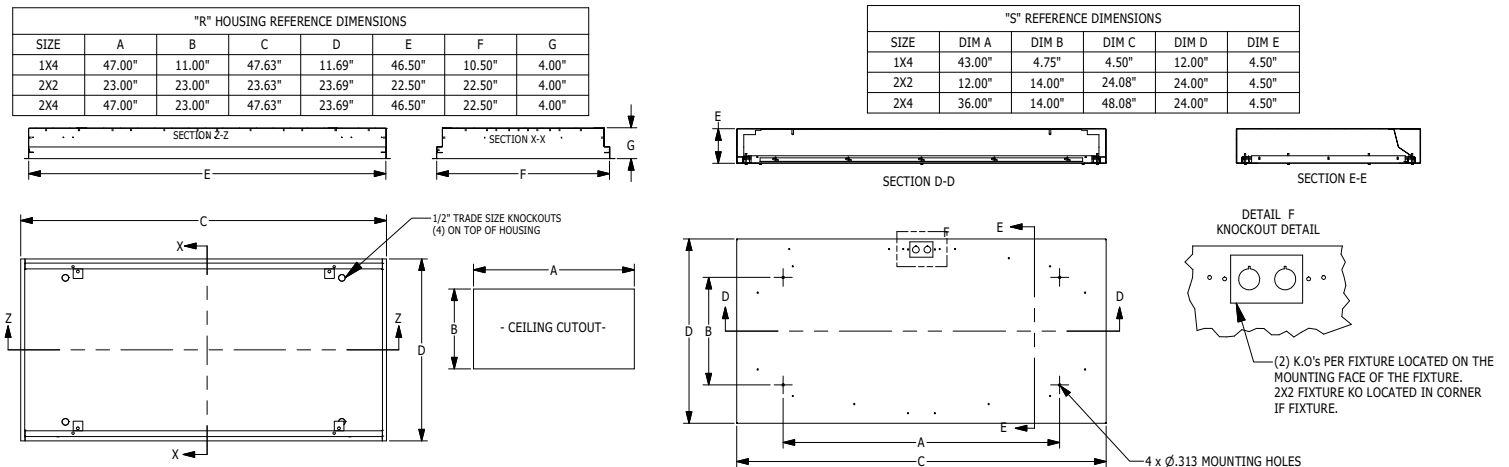
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts.

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

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

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. 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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ENERGY DATA

POLY INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)													
ENCLOSURE SIZE	LIGHT PACKAGE	STANDARD DIMMING	85 CRI (3000K - 5000K)			AMBIENT TEMP		90+ CRI (3500K, 4000K)			AMBIENT TEMP		
			LUMENS ¹	WATTS ²	EFFICACY ³	MINIMUM	MAXIMUM	LUMENS ¹	WATTS ²	EFFICACY ³	MINIMUM	MAXIMUM	
1X4	1LEDR	0-10V 1%	3,150	34	93	-20°C (-4°F)	40°C (104°F)	2,520	34	74	-20°C (-4°F)	40°C (104°F)	
1X4	2LEDR	0-10V 1%	6,390	68	94	-20°C (-4°F)	40°C (104°F)	5,112	62	82	-20°C (-4°F)	40°C (104°F)	
1X4	2LEDH	0-10V 1%	11,520	113	102	-20°C (-4°F)	40°C (104°F)	11,110	146	76	-20°C (-4°F)	35°C (95°F)	
1X4	2LEDHF	0-10V 1%	14,040	139	101	-20°C (-4°F)	35°C (95°F)	NA	NA	NA	NA	NA	
1X4	EM10	NA	930 - 1020	4	NA	0°C (32°F)	40°C (104°F)	740 - 820	4	NA	0°C (32°F)	40°C (104°F)	
2X2	2LEDR	0-10V 1%	3,180	35	91	-20°C (-4°F)	40°C (104°F)	2,540	32	79	-20°C (-4°F)	40°C (104°F)	
2X2	3LEDR	0-10V 1%	4,850	53	92	-20°C (-4°F)	40°C (104°F)	3,880	48	81	-20°C (-4°F)	40°C (104°F)	
2X2	2LEDH	0-10V 1%	5,040	57	88	-20°C (-4°F)	40°C (104°F)	4,870	73	67	-20°C (-4°F)	35°C (95°F)	
2X2	4LEDR	0-10V 1%	6,050	68	89	-20°C (-4°F)	40°C (104°F)	4,840	62	78	-20°C (-4°F)	40°C (104°F)	
2X2	3LEDH	0-10V 1%	8,020	86	93	-20°C (-4°F)	40°C (104°F)	7,740	110	71	-20°C (-4°F)	35°C (95°F)	
2X2	4LEDH	0-10V 1%	10,100	113	89	-20°C (-4°F)	40°C (104°F)	9,760	146	67	-20°C (-4°F)	35°C (95°F)	
2X2	4LEDHF	0-10V 5%	18,073	173	104	-40°C (-40°F)	35°C (95°F)	NA	NA	NA	NA	NA	
2X2	4LEDHF (1%)	0-10V 1%	14,590	138	105	-20°C (-4°F)	35°C (95°F)	NA	NA	NA	NA	NA	
2X2	EM10	NA	880 - 1050	4	NA	0°C (32°F)	40°C (104°F)	670 - 810	4	NA	0°C (32°F)	40°C (104°F)	
2X4	2LEDR	0-10V 1%	7,230	68	106	-20°C (-4°F)	40°C (104°F)	5,780	62	93	-20°C (-4°F)	40°C (104°F)	
2X4	3LEDR	0-10V 1%	10,850	103	105	-20°C (-4°F)	40°C (104°F)	8,680	94	92	-20°C (-4°F)	40°C (104°F)	
2X4	2LEDH	0-10V 1%	11,970	113	106	-20°C (-4°F)	40°C (104°F)	11,500	148	78	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDR	0-10V 1%	14,130	135	105	-20°C (-4°F)	40°C (104°F)	11,300	124	91	-20°C (-4°F)	40°C (104°F)	
2X4	3LEDH	0-10V 1%	17,950	169	106	-20°C (-4°F)	40°C (104°F)	17,320	221	78	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDH	0-10V 1%	23,940	225	106	-20°C (-4°F)	40°C (104°F)	22,960	295	78	-20°C (-4°F)	35°C (95°F)	
2X4	4LEDHF	0-10V 1%	31,350	279	112	-20°C (-4°F)	35°C (95°F)	NA	NA	NA	NA	NA	
2X4	EM10	NA	1050 - 1120	4	NA	0°C (32°F)	40°C (104°F)	780 - 930	4	NA	0°C (32°F)	40°C (104°F)	

- ¹ DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH ACRYLIC LENS
- 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, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- ⁵ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

PHOTOMETRICS

IS-R-5-2X2-4/LEDHF850-UNV

Report No: 19768.0

Total Lumens: 18,073

Wattage: 173.040

Efficacy: 104.4 (Lumens Per Watt)

Fixture Size: 2'x2'

Key:

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 - - - - - 45
 _____ 90

