

REV: 04/22/2025

Medical Exam Room Troffers: ML-ER-LED

1x4, 2x2 and 2x4 High Lumen LED Recessed Luminaires with RF Filtering

KURTZON SPECIFICATION GRADE LIGHTING ILLUMINATING YOUR WORLD

- For use in Medical Patient and Exam Rooms
- IP55 Rating
- RF filtered circuits standard
- Green/white switching available
- Symmetric distribution standard
- Antimicrobial finish standard
- Lutron controls available
- 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	Circuits	Green LED	Voltage	Mounting	•	Optics Options		
ML-ER								UNV					
				Light Source	:e								
Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Circuits (white)	Green LED	Voltage	Mounting	Optics			
ML-ER	White 430 SS Hsg. &	1x4 1' x 4' Housing	1	LEDR	83 CRI:	1/CIR	(optional)	UNV	IND	ASY	P12 Prismatic Lens With Embedded RF Grid		
	White AM 430 SS Door		2	LEDH	830 3000K	2/CIR	1/GLED		Individual	SYM	Diffusing Optics Assembly With Linear Prismatic Asymmetric Distribution		
	White Alum Hsg. & White AlM 430 SS Door			LEDHF	835 3500K		2/GLED			FROST	0.125" Flat Diffusing Frost Acrylic (No RFI Grid)		
		2x2 2' x 2' Housing	1	840 4000K 850 5000K		Specify Qty of RF	Green LED's are			LBW	0.125" Flat Diffused Acrylic with Linear Batwing Distribution (No RFI Grid)		
	5 White Alum Hsg. &	OR	2						CRM	GH85	0.125" Flat Diffused Acrylic with Glare Suppression Distribution (No RFI Grid)		
	White AM Alum Door	2x4 2' x 4' Housing	3	1 [Filtered Circuits for	provided with a dedicated RF		Continuous	AB20	0.125" Flat Diffused 20 Degree Asymmetric Distribution (No RFI Grid)		
			4	90+ CRI:		White Light	Filtered circuit		Row Mount				
				1 [935 3500K						Note*: ASY option is standard and will be provided when		
					940 4000K				CRM suitable		no other option is selected		
					950 5000K				for hardid				
				-					ceilings only		Options		
										S	SW Wet Location Hub Supplied (not installed)		
1		1	1	1		1	1			_	December of the United Constituted Lineary Volume		

Ordering Notes, If Applicable

PROJECT

DATE

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TYPE

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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. Optional Row Mounting for Recessed Housings Only with CRM Selected.

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 Aluminum or 20Ga 430 Stainless steel

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 "SYM" lens provided is a 12 Prismatic Acrylic Lens. ASY Lens option provide a linear prismatic lense with 20 degree beam distribution with frosted overlay. Both SYM & ASY options include a silkscreened RF grid to absorb radiated emissions, (Prisms must face outward). Other optic options are available but do not include the RF grid.

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. See options for available 540nM Green LEDs. Consult factory for LED options or configurations not listed below.

ELECTRICAL: 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. Multiple internal circuits are available for scene settings, each specified circuit is provided with an RFI filter that is tested to meet MIL-STD-461. Fixtures available with 10w 90min Emergency battery backup and surge protection. Consult factory for additional options not listed.

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

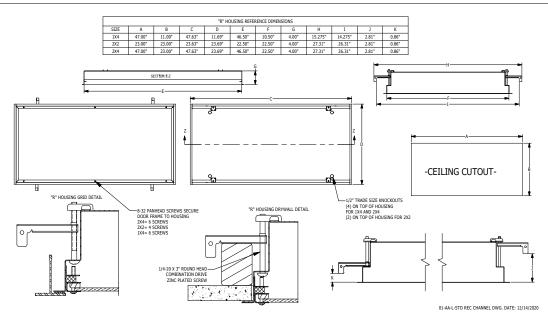
INSTALLATION: Suitable for recessed Non-IC installation into covered Lay-in or Hardlid ceilings. Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (4) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the toggles can be used as means of establishing a seismic support. Additionally, for Lay-in installations the toggle arms can be fastened directly to the T-bar to provide a clamping force onto the face of the grid gasket when tightened. Confirm ceiling compatibility with dimension drawings below.

CRM: Continuous Row Mounting (CRM) option provides a means of securing luminaires to each other end to end in straight rows only. While all recessed luminaries are suitable for thru wiring, the CRM option is only available for Hard lid installation. CRM fixtures come with flanges on 2 of the 4 sides so that the luminaires can mount to each other without the appearance of a larger gap between the two fixtures. Endcaps are factory installed based upon customer provided row configuration information and the Ceiling cutouts can be determined as shown on the CRM installation instructions that can be found on our website.

DOOR FINISH: White Dupont Alesta using Agion silver ion antimicrobial powder coat finish standard. see options for polished stainless steel.

LISTINGS: Military Standard 461G compliant for conducted and radiated emissions. 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 non-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.

PRODUCT DRAWINGS



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ENERGY DATA

MEDICAL SYMMETRIC CHANNEL-FGRS-LED TROFFER (APPROX¹ LUMENS DELIVERED)											
ENCLOSURE	LIGHT PACKAGE		80 CRI (300	OOK - 5000K)			STANDARD DIMMING				
SIZE		LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP	LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP⁴		
1X4	1LEDR	3,215	29	111	45°C (113°F)	3,100	29	107	45°C (113°F)	0-10V 1%	
1X4	2LEDR	6,430	55	117	45°C (113°F)	6,199	56	111	45°C (113°F)	0-10V 1%	
1X4	2LEDH	12,446	109	114	35°C (95°F)	11,915	109	109	35°C (95°F)	0-10V 1%	
1X4	2LEDHF	18,763	153	123	35°C (95°F)	16,060	182	88	35°C (95°F)	0-10V 1%	
1X4	EM10	1110-1230	4	NA	40°C (104°F)	880-1110	4	NA	40°C (104°F)	NA	
2X2	2LEDR	3,260	29	112	45°C (113°F)	3,270	29	113	45°C (113°F)	0-10V 1%	
2X2	3LEDR	4,887	42	116	45°C (113°F)	4,902	42	117	45°C (113°F)	0-10V 1%	
2X2	2LEDH	6,410	55	117	40°C (104°F)	6,130	55	111	40°C (104°F)	0-10V 1%	
2X2	4LEDR	6,510	55	118	45°C (113°F)	6,530	55	119	45°C (113°F)	0-10V 1%	
2X2	3LEDH	9,608	80	120	40°C (104°F)	9,186	81	113	35°C (95°F)	0-10V 1%	
2X2	4LEDH	12,800	109	117	40°C (104°F)	12,240	109	112	35°C (95°F)	0-10V 1%	
2X2	4LEDHF	18,782	153	123	35°C (95°F)	16,760	184	91	35°C (95°F)	0-10V 1%	
2X2	EM10	1120-1230	4	NA	40°C (104°F)	910-1190	4	NA	40°C (104°F)	NA	
2X4	2LEDR	6,942	55	126	45°C (113°F)	6,640	56	119	45°C (113°F)	0-10V 1%	
2X4	3LEDR	10,412	83	125	45°C (113°F)	9,954	83	120	45°C (113°F)	0-10V 1%	
2X4	2LEDH	13,650	109	125	40°C (104°F)	12,990	109	119	40°C (104°F)	0-10V 1%	
2X4	4LEDR	13,880	111	125	45°C (113°F)	13,270	113	117	45°C (113°F)	0-10V 1%	
2X4	3LEDH	20,464	164	125	40°C (104°F)	19,482	164	119	40°C (104°F)	0-10V 1%	
2X4	4LEDH	27,280	220	124	40°C (104°F)	25,970	220	118	40°C (104°F)	0-10V 1%	
2X4	4LEDHF	40,613	305	133	35°C (95°F)	35,810	373.3	96	35°C (95°F)	0-10V 1%	
2X4	EM10	1240-1330	4	NA	40°C (104°F)	960-1200	4	NA	40°C (104°F)	NA	

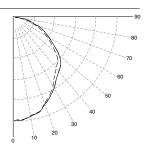
- 1 DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- ² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- ³ EFFICACY CALCULATED USING 4000K CCT DATA.
- * MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

MEDICAL SYMMETRIC CHANNEL-FGRS-LED TROFFER (APPROX¹ LUMENS DELIVERED)										
ENCLOSURE	LIGHT	STANDARD DIMMING		540nm GREEN LED						
SIZE	PACKAGE			LUMENS	WATTS ²	EFFICACY ³				
1X4	1GLED	0-10V 1%		2,500	36	69				
1X4	2GLED	0-10V 1%		5,000	72	69				
2X2	1GLED	0-10V 1%	1	1,200	18	67				
2X2	2GLED	0-10V 1%		2,400	36	67				
2X4	1GLED	0-10V 1%	l	2,500	36	69				
2X4	2GLED	0-10V 1%		5,000	72	69				

PHOTOMETRICS

SYMMETRIC





ASYMMETRIC



