

REV: 04/2021

Medical MRI Operating Room Troffers: ML-MRIOS-LED

1x4, 2x2 and 2x4 LED Surface Luminaires

- For use in MRI Featured Advanced Surgical Suites
- IP65 Rating
- Non-Ferrous Construction
- MIL-461 Compliant with purchase of filters
- B.A.A. Compliant & Made in the USA by a Family Owned US Corporation

KURTZON SPECIFICATION GRADE LIGHTING ILLUMINATING YOUR WORLD

















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ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	ССТ	Voltage Mounting		Optics	Options
ML-MRIOS	5			LEDR		UNV	IND		

Series	ı .	Size	Light Source					0.11		Ontinue		
Series	Material		Row Qty.	LED Type	CCT/Dim Type	Voltage	Mounting	Optics		Options		
ML-MRIOS	White Alum Hsg. &	1x4 1' x 4' Housing	1	LEDR	83 CRI:	UNV: 120V-277V*	IND	ASY Diffusing Optics Assembly With Linear Prismatic Asymmetric Distribution	FC	Fuse & Holder (One Supplied Per Circuit)		
	White AM Alum Door		2		830 3000K		Individual	SYM P12 Prismatic Lens	EM10	10W Integral LED EM (Specify Input Voltage)		
		2x2 2' x 2' Housing	2		835 3500K	Note: Voltage listed		FROST 0.125" Flat Diffusing Frost Acrylic		Programmed to User Specified Lumen Value.		
			3		840 4000K	40 4000K above is the Remote Driver input voltage. The		LBW 0.125" Flat Diffused Acrylic with Linear Batwing Distribution	PxW*	Programmed to User Specified Wattage Value.		
			4		850 5000K	output voltage or fixture		GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution	10KV	10KV Parallel Surge Protection (One Supplied Per Circuit)		
		2x4 2' x 4' Housing	2			voltage is determined by		AB20 0.125" Flat Diffused 20 Degree Asymmetric Distribution		Note*: Specify Value in Ordering Notes Below		
			3		90+ CRI:	the drive but less than 60Vdc						
				935 3500K Note*: SYM option is standard and will be provided when		Note*: SYM option is standard and will be provided when						
					940 4000K			no other option is selected				
					950 5000K					Required Accessories Ordered Separately		
									MRIF3	Three circuit filter for 3 fixtures		
									MRIF6	Entrance filter for 6 fixtures		
									MRIF9	Entrance filter for 9 fixtures		

Ordering Notes, If Applicable



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SPECIFICATIONS

HOUSING: One piece, seam welded, hole free .040" 3003 aluminum construction. Complete construction is non-magnetic.

DOOR FRAME: .040" 3003 aluminum one piece inset door frame hinged to housing with two stainless steel cables. Secured by captive stainless steel screws.

GASKETS: Closed cell 100% pure neoprene gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system. Four .312" dia. mounting holes and a removable gasketed wiring access plate with supply entry via 1/2" trade size flattened knockouts..

OPTICS: Standard "SYM" lens provided is a 12 Prismatic Acrylic Lens. ASY Lens option provides a linear prismatic lense with 20 degree beam distribution with frosted overlay. Both SYM & ASY options are installed with the smooth side of the lens facing the room for easy clean-ability. Other optics options are available.

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.

ELECTRICAL: Constant current static low voltage DC provided from included remote driver. Driver is designed to operate without affecting the measurement equipment. Drivers are 0-10v dimming standard and are supplied with the fixtures in an remote enclosure. Proprietary MRI Entrance filters comply with MIL-461 for conducted emissions and must be purchased separately.

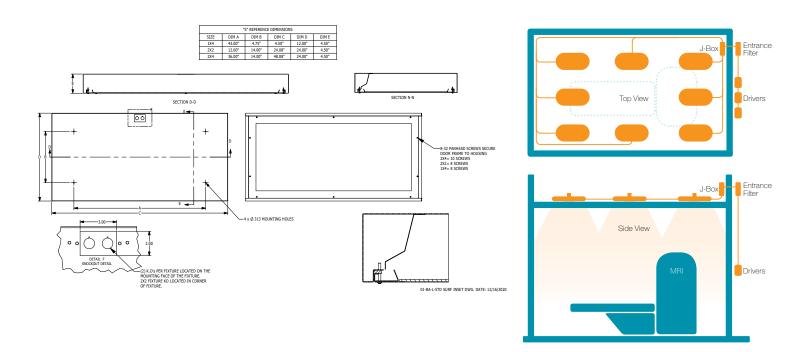
REFLECTOR: Die formed non-ferrous metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Fixtures are supplied with .875" flattened knockouts for supply entry. Suitable for surface installation onto covered ceilings only.

DOOR FINISH: White Dupont Alesta using Agion silver ion antimicrobial powder coat finish standard.

LISTINGS: Military Standard 461F compliant for conducted and radiated emissions. IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Certified ISO-14644-1 for class 5 through class 9 cleanspaces. Certified Fed Std 209E for Class 100 through Class 100,000 cleanspaces. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product is Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS





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ENERGY DATA

INSET MRI-FGRS-LED TROFFER (APPROX ² LUMENS DELIVERED)										
ENCLOSURE	LIGHT PACKAGE		80 CRI (300)	OK - 5000K)		90 CRI (3500K, 4000K)				STANDARD DIMMING
SIZE		LUMENS	WATTS ²	EFFICACY ²	MAX AMB TEMP	LUMENS	WATTS ²	EFFICACY ^a	MAX AMB TEMP*	
1X4	1LEDR	3,034	29	105	45°C (113°F)	2,924	29	101	45°C (113°F)	0-10V 1%
1X4	2LEDR	6,067	55	110	45°C (113°F)	5,848	56	105	45°C (113°F)	0-10V 1%
1X4	EM10	1050-1130	4	NA.	40°C (104°F)	790-1050	4	NA.	40°C (104°F)	NA.
2X2	2LEDR	2,986	29	103	45°C (113°F)	2,881	29	99	45°C (113°F)	0-10V 1%
2X2	3LEDR	4,479	42	107	45°C (113°F)	4,321	42	103	45°C (113°F)	0-10V 1%
2X2	4LEDR	5,972	55	109	45°C (113°F)	5,761	56	103	45°C (113°F)	0-10V 1%
2X2	EM10	1030-1170	4	NA.	40°C (104°F)	800-1040	4	NA.	40°C (104°F)	NA.
2X4	2LEDR	6,718	55	122	45°C (113°F)	6,428	56	115	45°C (113°F)	0-10V 1%
2X4	3LEDR	10,077	83	122	45°C (113°F)	9,642	83	116	45°C (113°F)	0-10V 1%
2X4	EM10	1221-1340	4	NA.	40°C (104°F)	950-1160	4	NA.	40°C (104°F)	NA.

- DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @ 25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- WATTAGE IS MEASURED WITH 4000K SELECTION @ 120xAC AND Tambient = 25C.WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- PEFFICACY 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.

PHOTOMETRICS

