NOTES

REV: 01/29/2025

Medical Operating Room Troffers: ML-OR-LED-GREEN-QS

2x4 High Lumen LED Recessed Luminaires with RF Filtering





- For use in Operating and Exam Rooms
- IP65 Rating
- RF filtered circuits standard
- Asymmetric distribution standard
- Antimicrobial finish standard
- B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation
- 5 Day Quick Ship For Orders Under 25 Fixtures
- 3 Day Quick Ship For Orders Under 15 Fixtures



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ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Circuits	Green LED	Voltage	Mounting	Optics	Options		Quick Ship	
ML-OR		2x4							IND					
		Size	Light Source			Circuits			l					
Series	Material		Row Qty.	LED Type	CCT/CRI	(white)	Green LED	Voltage	Mounting	Optics		Options	Quick Ship	
ML-OR	-OR _ White Alum Hsq. &	2x4 2' x 4' Housing	3	LEDR	83 CRI	1/CIR	(Optional)	120V	IND	ASY Diffusing Optics Assembly With Linear Prismatic Asymmetric Distribution	EM10	10W Integral LED EM (Specify Input Voltage)	5DQS (5-Day Quick Ship)	
	White AM Alum Door		4	LEDH	835 3500K	2/CIR	1/GLED	277V	Individual		SYM	Symmetric pattern acrylic lens	3DQS (3-Day Quick Ship)	
	White Alum Hsg. &	NOTE: Only a total of 5 combined rows of leds can be specified.	ed	840	840 4000K		2/GLED	UNV		SYM P12 Prismatic Lens With Embedded RF Grid	PxL	Programmed to User Specified Lumen Value.		
	White AM CRS Door										PxW	Programmed to User Specified Wattage Value.		
				90+ CRI 935 3500K	Specify Qty of RF Filtered Circuits for	Green LED's are provided with a dedicated RF			Note*: ASY option is standard and will be provided when no other option is selected	10KV	10KV Parallel Surge Protection (One Supplied Per Circuit)			
					940 4000K	White Light	Filtered circuit.				GG	1/8" Thick Grid Gasket (Provided Loose)		

Ordering Notes, If Applicable



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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.

DOOR FRAME: One-Piece Inset door frame regresses into the housing to allow the 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 1008 CRS.

GASKETS: Closed microcellular Nitrile 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 ASY Lens is a 2 piece assembly consisting of a clear flat acrylic lens on the room side followed by a microprismatic asymmetric pattern lens. The clear flat room side lens is used to allow an easy to clean surface. Asymmetric distribution pattern optimized for high visibility within the surgical field and is provided with a silkscreened RF grid to absorb radiated emissions. Symmetric lens with inverted pattern & RF filtering is also available in options.

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: Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1%. 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 ceilings. Fixtures are supplied with .875" flattened knockouts for supply entry. 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 actual toggles can be used as means of establishing a seismic support for lay in ceiling installations.

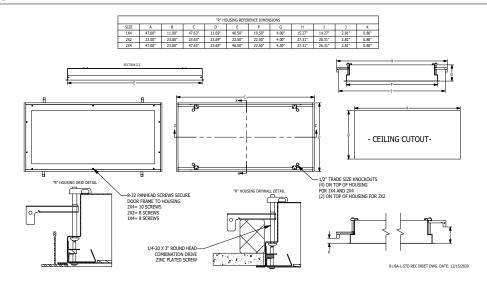
DOOR FINISH: White Dupont Alesta using Agion silver ion antimicrobial powder coat finish standard.

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. 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.

5-DAY QUICK SHIP POLICY: Quantity restriction of 25 fixtures. Once PO is received by 12:00 PM CST, shipping will occur within 5 business days. Standard freight applies. Expedited shipping to be paid by customer.

3-DAY QUICK SHIP POLICY: Quantity restriction of 15 fixtures. Once PO is received by 12:00 PM CST, shipping will occur within 3 business days. Standard freight applies. Expedited shipping to be paid by customer.

PRODUCT DRAWINGS





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ENERGY DATA

MEDICAL ASY INSET-FGRS-LED TROFFER (APPROX¹ LUMENS DELIVERED)														
ENCLOSURE	LIGHT	STANDARD DIMMING	LUMENS 83 CRI (3000K - 5000K)			MAX AMB	EFFICACY (LM/W)		LUMENS 90+ CRI (3500K, 4000K)			MAX AMB	EFFICACY (LM/W)	
SIZE PACKA	PACKAGE		ASY	SYM	WATTS ²	TEMP⁴	ASY	SYM	ASY	SYM	WATTS ²	TEMP⁴	ASY	SYM
												,		
2X4	3LEDR	0-10V 1%	8,666	10,077	83	45°C (113°F)	104	121	8,292	9,642	83	45°C (113°F)	100	116
2X4	4LEDR	0-10V 1%	11,555	13,436	111	45°C (113°F)	104	121	11,056	12,856	113	45°C (113°F)	98	114
2X4	3LEDH	0-10V 1%	17,107	19,892	164	40°C (104°F)	104	121	16,256	18,902	164	40°C (104°F)	99	115
2X4	4LEDH	0-10V 1%	22,809	26,522	220	40°C (104°F)	104	121	21,674	25,202	220	40°C (104°F)	99	115
2X4	EM10	NA	1040-1150	1210-1340	4	40°C (104°F)	NA	NA	810-1000	950-1160	4	40°C (104°F)	NA	NA

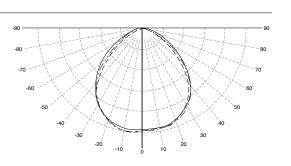
- 1 DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS, VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN
- 2 WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- 3 EFFICACY CALCULATED USING 4000K CCT DATA.
- 4 MAX AMBIENT TEMP RATING, NON-IC INSTALLATON, TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- 5 90 MINUTE 10W EMERGENCY DRIVER: LUMENS CALCULATED BASED ON FIXTURE EFFICACY.
- 6 EM10 DELIVERED LUMENS = (LUMINAIRE EFFICACY) x10
- 7 EM20 DELIVERED LUMENS = (LUMINAIRE EFFICACY) x20

MEDICAL ASYMMETRIC INSET-GREEN LED TROFFER (APPROX¹ LUMENS DELIVERED)									
ENCLOSURE	LIGHT	STANDARD DIMMING		540r	nm GREEN LEC)			
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%		1,200	18	67			
2X2	2GLED	0-10V 1%		2,400	36	67			
2X4	1GLED	0-10V 1%		2,500	36	69			
2X4	2GLED	0-10V 1%		5,000	72	69			

PHOTOMETRICS

ASYMMETRIC





SYMMETRIC



