

Medical Operating Room Troffers - 5 Day Quick Ship

2x4 Recessed High Lumen LED Luminaires with RF Filtering



- For use in Operating and Exam Rooms
- IP65 Rating
- RF filtered circuits standard
- Green/white switching available
- Asymmetric distribution standard
- Antimicrobial finish standard
- Lutron controls available



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ORDERING GUIDE

Series	Installation Type	Material	Size	Source	CCT	Circuits (White)	Green LED	Voltage	Mounting	Options
ML										
ML	OR: Recessed (Suitable for Flange & Grid)	5: White Alum Hsg. & White AM Alum Door 7: White Alum Hsg. & White AM CRS Door	2x4: 2' x 4' Housing <i>NOTE: Only a total of 4 combined rows of leds can be specified.</i>	3/LEDR 3/LEDH 4/LEDR 4/LEDH	83 CRI: 835 = 3500K CCT 840 = 4000K CCT 90+ CRI: 935 = 3500K CCT 940 = 4000K CCT	1/CIR 2/CIR <i>Specify Qty of RF Filtered Circuits for White Light</i>	(optional) 1/GLED 2/GLED <i>Green LED's are provided with a dedicated RF Filtered circuit.</i>	120V 277V UNV	IND Individual	EM10: 10W Integral LED EM (Specify Input Voltage) SYM: Symmetric pattern acrylic lens PxL: Programmed to User Specified Lumen Value. ⁰⁰⁰ PxW: Programmed to User Specified Wattage Value. ⁰⁰⁰ 10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit) 5DQS: 5-Day Quick Ship

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Recessed housings are .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.

LENS: Standard Lens is a 3 piece assembly consisting of a clear flat acrylic lens on the room side followed by a linear asymmetric lens and finished with a frost overlay on top. The clear flat room side lens is used to allow an easy to clean surface. The frosted diffusing top layer provides a more evenly illuminated surface. Center lens is an Asymmetric distribution pattern optimized for high visibility within the surgical field. Symmetric lens with inverted pattern 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. 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%. 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 backups 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%.

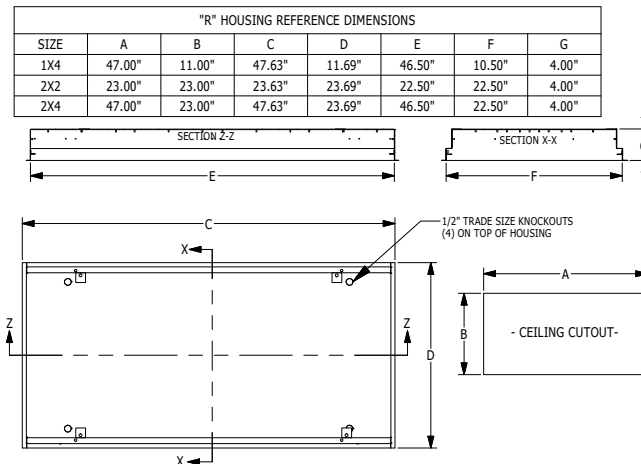
INSTALLATION: Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (4) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the 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.

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.

PRODUCT DRAWINGS



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ENERGY DATA

MEDICAL ASY INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)												
ENCLOSURE SIZE	LIGHT PACKAGE	STANDARD DIMMING	83 CRI (3000K - 5000K)			AMBIENT TEMP		90+ CRI (3500K, 4000K)			AMBIENT TEMP	
			ASY	SYM	WATTS ²	MINIMUM	MAXIMUM ⁴	ASY	SYM	WATTS ²	MINIMUM	MAXIMUM ⁴
2X4	3LEDR	0-10V 1%	11,870	13,560	111	-20°C (-4°F)	40°C (104°F)	8,500	9,649	94	-20°C (-4°F)	40°C (104°F)
2X4	4LEDR	0-10V 1%	15,560	18,080	146	-20°C (-4°F)	40°C (104°F)	11,300	12,569	124	-20°C (-4°F)	40°C (104°F)
2X4	3LEDH	0-10V 1%	18,575	21,220	153	-20°C (-4°F)	40°C (104°F)	17,100	19,254	221	-20°C (-4°F)	35°C (95°F)
2X4	4LEDH	0-10V 1%	23,937	27,814	205	-20°C (-4°F)	40°C (104°F)	22,800	25,519	295	-20°C (-4°F)	35°C (95°F)

- 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 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.
- 6 EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*10
- 7 EM20 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*20

MEDICAL ASYMMETRIC INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)					
ENCLOSURE SIZE	LIGHT PACKAGE	STANDARD DIMMING	540nm GREEN LED		
			LUMENS	WATTS ²	EFFICACY ³
2X4	1GLED	0-10V 1%	2,500	36	69
2X4	2GLED	0-10V 1%	5,000	72	69