

# Medical Exam Room Troffers: ML-RB-LED

1x4, 2x2, and 2x4 Sealed LED Recessed Basket Luminaires with RF Filtering

- **Rated IP65**
- **Indirect even illumination for reduced glare and eyestrain**
- **ETL listed for Wet Locations**
- **One piece Inset doorframe**
- **Robotically seam welded housing**
- **0-10v 1% dimming standard**
- **Recessed housing suitable for Tbar grid & hardlid installations**
- **B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation**
- **RF filtered circuits optional**
- **Anti-microbial Powdercoat standard**
- **Available in single or multi-function switching (exam/ambient/night)**
- **Available with Low Voltage Controller**



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## ORDERING GUIDE

Series	Material	Size	LED	CCT/CRI	Voltage	Circuits	Optics	Options	
ML-RB									
Series	Material	Size	Light Source		Voltage	Circuits	Optics	Options	
			LED	CCT/CRI					
ML-RB	1	White 18Ga. CRS Hsg. & White AM 18Ga. CRS Door	1x4 1' x 4' Housing	3/LEDR	83 CRI:	120V	1/CIR	125A 0.125" Clear Flat Impact Resistant Acrylic	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)
		White 18Ga. CRS Hsg. & White AM 304 SS Door	2x2 2' x 2' Housing	3/LEDH	830 3000K	277V	2/CIR	125P 0.125" Clear Flat Impact Resistant Polycarbonate	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)
	2	White 18Ga. CRS Hsg. & White AM 304 SS Door	2x4 2' x 4' Housing	835 3500K	UNV		187P 0.187" Clear Flat Impact Resistant Polycarbonate	WHIP Must Specify Length and Wire Qty	
				840 4000K			250P 0.250" Clear Flat Impact Resistant Polycarbonate	FC Fuse & Holder (One Supplied Per Circuit)	
				850 5000K			EM10 10W Integral LED EM (Specify Input Voltage)		
				90+ CRI:			EM20 20W Remote LED EM (Specify Input Voltage)		
				935 3500K			GTD Generator Transfer Device		
				940 4000K			GG 1/8" Thick Grid Gasket (Provided Loose)		
				950 5000K			LVC Low-Voltage Controller		
							NL500 500lm 2700K Night Light		
							AMB/PxL * Ambient Circuit Programmed to Specified Lumen Value		
							EXM/PxL * Exam Circuit Programmed to Specified Lumen Value		
							RFI MIL-STD-461 RFI Filter (1 Per Circuit)		
							D20FF 0-10V Dimming to 1% with Dim to Off		
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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. Housings are available in 18Ga. Cold Rolled Steel with White Powdercoat finish.

**DOOR FRAME:** One piece inset door frame with seam welds regressing into housing to allowing the NSF approved microcellular 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 AMW Powder coated 20Ga 304 SS or 18Ga CRS.

**GASKETS:** Closed cell microcellular extruded KleanLock SealPro 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 .125" Acrylic Lens is provided when no other options are selected. All optics are sealed to the door with NSF listed RTV silicone sealant. Other optics are available, consult factory for more information or options not listed.

**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% and rated -20C (-4F). Drivers are also programmable to match specific lumen or wattage requirements (option PxL). Available with single or 2 circuit design for ambient / exam switching. NL500 option adds a night light switch on a dedicated circuit allowing a maximum of 3 total circuits. All fixtures are available with RF Filtering when selecting RFI option.

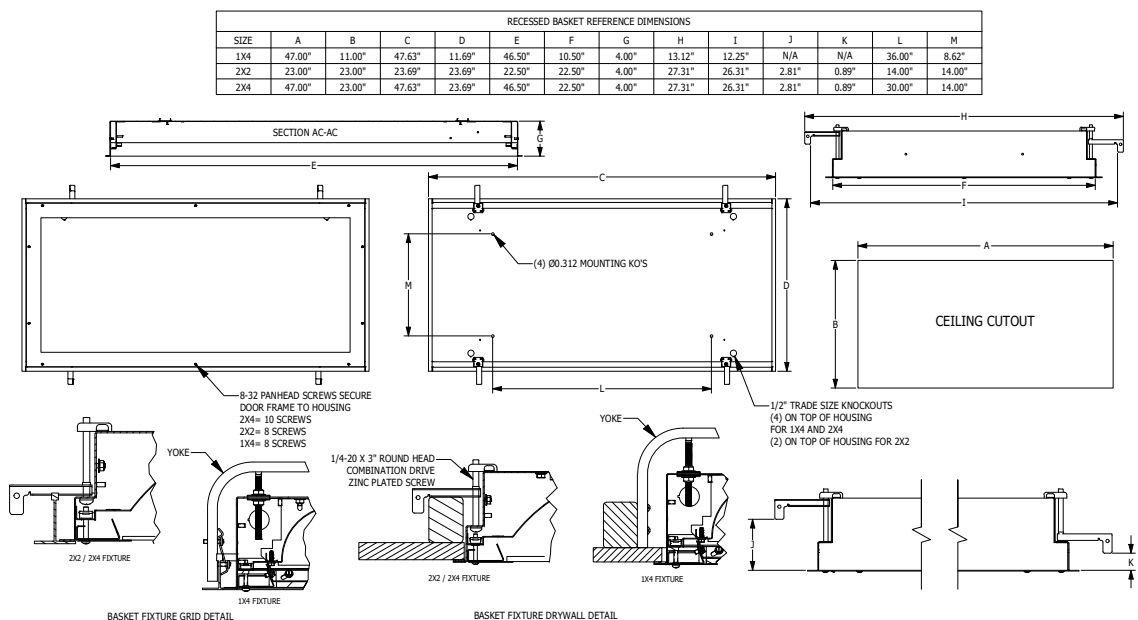
**REFLECTOR:** Specially designed perforated reflector for indirect even fixture illumination.

**INSTALL RECESSED:** One fixture suitable for Grid and Flanged installation. The Recessed 2x2 & 2x4 versions install by use of four adjustable swing out toggle arms with holes for seismic support wire attachment. The 1x4 version installs by use of factory provided yoke hanger brackets along with mounting hardware. Supply entry via 1/2" trade size flattened knockouts on the back of the housing. Suitable for recessed Non-IC Installation.

**FINISH:** AMW provides a white-microbial polyester powdercoat to all exposed surfaces with glass high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117.

**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. Certified ISO-14644-1 for class 3 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. Optionally MIL-STD-461G compliant with RFI option.

## PRODUCT DRAWINGS



01-BA-L- INSET REC BASKET DWG. DATE: 05/28/2024

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## ENERGY DATA

INSET SURFACE & RECESSED INDIRECT LED TROFFER (APPROX <sup>1</sup> LUMENS DELIVERED)										
ENCLOSURE SIZE	LIGHT PACKAGE	80 CRI (3000K - 5000K)				90 CRI (3500K, 4000K)				STANDARD DIMMING
		LUMENS <sup>1</sup>	WATTS <sup>2</sup>	EFFICACY <sup>3</sup>	MAX AMB TEMP	LUMENS <sup>1</sup>	WATTS <sup>2</sup>	EFFICACY <sup>3</sup>	MAX AMB TEMP <sup>4</sup>	
1X4	3/LEDR - Ambient	1,610	28	58	40°C (104°F)	1,544	28	56	40°C (104°F)	0-10V 1%
1X4	3/LEDR - Exam	4,113	56	74	40°C (104°F)	3,942	56	71	40°C (104°F)	0-10V 1%
1X4	3/LEDR - Amb & Exam	5,723	83	69	40°C (104°F)	5,486	83	66	40°C (104°F)	0-10V 1%
1X4	3/LEDH - Ambient	2,476	42	59	40°C (104°F)	2,377	42	56	40°C (104°F)	0-10V 1%
1X4	3/LEDH - Exam	6,321	83	76	40°C (104°F)	6,069	83	73	40°C (104°F)	0-10V 1%
1X4	3/LEDH - Amb & Exam	8,797	126	70	35°C (95°F)	8,446	126	67	35°C (95°F)	0-10V 1%
2X2	3/LEDR - Ambient	970	13	72	40°C (104°F)	931	13	71	40°C (104°F)	0-10V 1%
2X2	3/LEDR - Exam	2,100	28.9	73	40°C (104°F)	2,012	28.7	70	40°C (104°F)	0-10V 1%
2X2	3/LEDR - Amb & Exam	3,070	42.3	73	40°C (104°F)	2,943	41.9	70	40°C (104°F)	0-10V 1%
2X2	3/LEDH - Ambient	1,547	20	76	40°C (104°F)	1,486	20	73	40°C (104°F)	0-10V 1%
2X2	3/LEDH - Exam	3,227	42.2	76	40°C (104°F)	3,098	42.1	74	40°C (104°F)	0-10V 1%
2X2	3/LEDH - Amb & Exam	4,774	62.6	76	40°C (104°F)	4,584	62.5	73	40°C (104°F)	0-10V 1%
2X4	3/LEDR - Ambient	1,917	28	69	40°C (104°F)	1,838	28	28	40°C (104°F)	0-10V 1%
2X4	3/LEDR - Exam	4,525	55.7	81	40°C (104°F)	4,337	55.3	55	40°C (104°F)	0-10V 1%
2X4	3/LEDR - Amb & Exam	6,442	83.4	77	40°C (104°F)	6,175	82.8	83	40°C (104°F)	0-10V 1%
2X4	3/LEDH - Ambient	3,367	42	80	40°C (104°F)	3,232	42	42	40°C (104°F)	0-10V 1%
2X4	3/LEDH - Exam	6,955	83.3	83	40°C (104°F)	6,678	83.1	83	40°C (104°F)	0-10V 1%
2X4	3/LEDH - Amb & Exam	10,322	125.5	82	35°C (95°F)	9,910	125.2	125	35°C (95°F)	0-10V 1%

<sup>1</sup> DELIVERED LUMEN DATA IS ADJUSTED FROM TESTED DATA WITH .125" ACRYLIC LENS

<sup>2</sup> WATTAGE IS MEASURED WITH 4000K SELECTION @ 120VAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS

<sup>3</sup> EFFICACY CALCULATED USING 4000K CCT DATA.

<sup>4</sup> MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION