

Catalog Number
Project
Type

MSB

Recessed Medical/Surgical Suite Troffer



SPECIFICATIONS

DESCRIPTION

The MSB is an operating room troffer designed with multiple light distribution options to meet the needs of operating rooms and surgical suites. Available in symmetric, asymmetric/symmetric, and full asymmetric optics. Optional green LEDs available on separate circuit to help aid in visual clarity in the surgical room. Typically positioned around the perimeter of an operating room.

CONSTRUCTION

20 gauge cold roll steel housing and doorframe. Doorframe and lens grounded to housing. Available in flanged or recessed grid construction. For 2" tall grid systems, use option 2G. 92% minimum reflective white finish, anti-microbial white paint option available. Housing and doorframe painted after fabrication.

ELECTRICAL SYSTEM

Electronic driver 0-10V dimming standard. Optional PoE for network integration. Long-life LED system rated for >100K hours (L70 @ 45°C). Complies with federal energy efficiency standards.

OPTICAL SYSTEM

Symmetric: .125" Frosted acrylic #12 pattern lens
 Symmetric/Asymmetric: Frosted acrylic #12 pattern lens.
 Asymmetric: Acrylic asymmetric/symmetric lens with RF suppression grid.

LISTINGS

UL Listed for dry or damp locations. Manufactured in Fort Worth, TX.

MOUNTING

Recessed Grid for standard 9/16", 15/16", and 1-1/2" grid ceilings. For 2" tall T-Grid systems, use option 2G. Recessed flanged mounting available.

LED

80 CRI or 90 CRI LEDs available in 3000K, 3500K, 4000K and 5000K. Life is >100,000 hours at 70% lumen maintenance. Maximum 3-step MacAdam variation allowance.

WARRANTY

5 - Year Limited Warranty. Complete warranty and terms located at: www.aelnow.com/warranty

Output	Lumens	Wattage	L70 @45°C (hrs)
W25	2500	16	>100K
W30	3000	20	>100K
W35	3500	24	>100K
W40	4000	27	>100K
W50	5000	33	>100K
W55	5500	37	>100K
W65	6500	44	>100K
W70	7000	47	>100K
W80	8000	54	>100K
W90	9000	60	>100K
W100	10000	67	>100K
W150	15000	101	>100K
W220	22000	150	>100K

* Delivered white lumens shown were tested with 4000K LEDs
 Total Lumens and Wattage may vary by +/- 5%

Output	Lumens	Wattage	L70 @45°C (hrs)
G6	600	8.57	>60K
G10	1000	14.2	>60K
G12	1200	17.2	>60K
G15	1500	21.4	>60K
G21	2100	30.2	>60K
G32	3200	45.9	>60K

Example: MSB14-L-40-W220-ASSY-M

Custom Lumens: MSB24-L-50-G35W100 for 10,000lm White and 3,500lm Green

Series	Mounting	CCT	LED Output	Optics
MSB14 1x4	L Lay-in Grid	30 3000K	W30 3,000lm White	SY Full Symmetric
MSB22 2x2	F Flanged	35 3500K	W35 3,500lm White	ASSY Asymmetric/Symmetric
MSB24 2x4		40 4000K	W55 5,500lm White	FAS Full Asymmetric
		50 5000K	W65 6,500lm White	
			W70 7,000lm White	
			W100 10,000lm White	
			W220 22,000lm White	
			G6W25 600lm Green/2,500lm White	
			G10W50 1,000lm Green/5,000lm White	
			G12W50 1,200lm Green/5,000lm White	
			G15W40 1,500lm Green/4,000lm White	
			G15W70 1,500lm Green/7,000lm White	
			G21W90 2,100lm Green/9,000lm White	
			G32W80 3,200lm Green/8,000lm White	
			G32W150 3,200lm Green/15,000lm White	
			G##W## X,XXXlm Green/X,XXXlm White	
			W## X,XXXlm White	

¹W220 only available in 2x4 configurations.

Voltage	Driver Options	Options
M Multi-Volt (120-277V)	BLANK 0-10V Dimming Driver (<i>standard</i>) CD1 0-10V 1% Dimming Driver CD5 0-10V 5% Dimming Driver EDN Electronic Driver Non-Dimming DALI DALI 1% Dimming Driver LDE1 Lutron Hi-Lume 1% EcoSystem LED Driver with Soft-on, Fade-To-Black Dimming	12EBL 12W Emergency Driver FZ Fast Blow Fuse TG Triple Gasket 2C 2 Circuit Wiring AM Anti-Microbial White Finish 90 90 CRI POE Power Over Ethernet 2G 2" Tall T-Grid Mounting

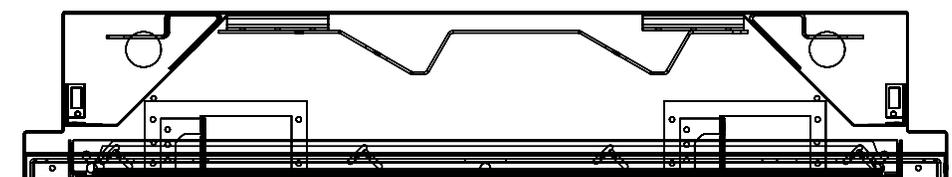
OPTIC DETAILS

SY - Full Symmetric



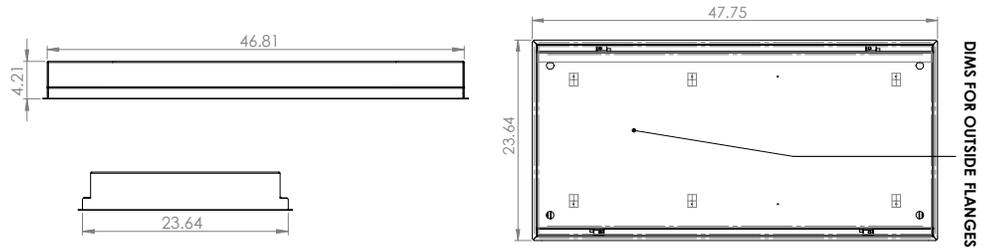
ASSY - Asymmetric/Symmetric

FAS - Full Asymmetric

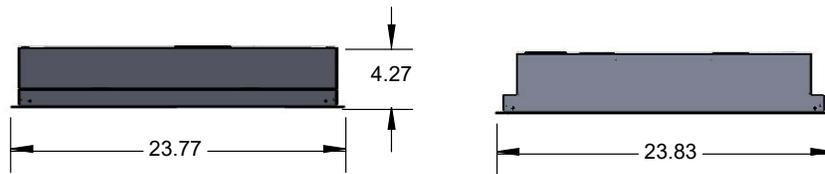


DIMENSIONS

2x4



2x2



1x4



TYPICAL SURGICAL SUITE LAYOUT

