

MEDMASTER™ Surgical Suite Luminaires

M2SE SERIES

PRODUCT FEATURES:

- » Recessed ceiling mount – flange; 2'x4'
- » One-piece sealed housing and doorframe for infection control
- » Smooth exterior lens for cleanability
- » Sureshield™ mesh filter reduces radiated emissions
- » Radiated and conducted emissions controlled as per MIL-STD-461F.



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: 20-gauge CRS, hole-free seam welded construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Antimicrobial finish standard on all exposed painted surfaces of installed luminaire.

HOUSING FLANGE: 18-gauge CRS. Mitered and welded corners then spot-welded to housing before painting.

DOORFRAME: 18-gauge CRS, one-piece inset construction welded corners. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Doorframe secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners. Antimicrobial finish standard on all exposed painted surfaces of installed luminaire.

DOORFRAME GASKET: One-piece closed cell silicone gasket seals doorframe to housing.

LENS: Two piece design. Smooth lens exterior is .125" clear acrylic, sealed to doorframe with silicone sealant. Interior lens is .030" acrylic micro linear prism, both lenses mechanically secured in place. See options for alternate lens.

OPTICS: Symmetric reflectors are CRS with a high reflectance powder coated surface. Asymmetric reflectors are premium 95% specular aluminum. Green phosphor lamp (GL Option) located in symmetric reflector area (see Cross Section right). Light direction reflectors are field changeable.

SURESHIELD™: Stainless steel mesh filter reduces radiated emissions.

ELECTRICAL: Electronic ballast <10% THD. Programmed-Start, low voltage electronic dimming ballast (DM7) designed to operate T8 or T5HO fluorescent lamps over a full range of light output (100-3% T8; 100-1% T5HO). Minimum Power Factor .98 for T5HO and .99 for T8. THD at full light output 10%. Operates from compatible 0-10VDC controllers on Class 1 or Class 2 low voltage systems. See Ordering Information for alternate or multiple ballasts and optional equipment. Lamps by others. RFI suppressor standard – one per circuit, one circuit standard.

INSTALLATION: Adjustable swing-out mounting brackets.

LISTINGS: UL and CUL Listed for Wet Location. UL certified IP65 per IEC 60598. CCEA approved. NSF2 Splash/Non-Food Zone. Meets K230 Leakage Standard for luminaire leakage in pressurized environments and FED-STD-209E/Class 100 (ISO 5) Cleanrooms. Radiated and conducted emissions controlled as per MIL-STD-461F (standard with electronic and electronic dimming ballasts).



ORDERING INFORMATION (Ex: M2SEFI24-4-28-RS-L2-120-2F-2H-MLP)

Model	Lamp Qty	Lamp Type	Ballast Type	Lighting Levels	Voltage	Doorframe	Housing/Flange	Lens Type	Options
M2SEFI24									

Lamp Quantity

- 4 Four
- 6 Six
- 4/2 Four White/Two Green

Lamp Type

- 28 F28T5
- 32 F32T8
- 32/32 Four White/Two Green
- 54 F54T5HO (4 Lamp Max.)

Ballast Type

- IS Instant Start Electronic <10% THD (T8)
- RS Rapid Start Electronic <10% THD (T8,T5,T5HO)
- DM7 Low Voltage Electronic Dimming Ballast

Lighting Levels – See chart below for ballast and RFI information

- L1 One (STD)
- L2 Two
- L3 Three (6 Lamps Only)
- LD Dimmable

Voltage

- 120 120 Volts
- 277 277 Volts

Doorframe Options

- 2F 18-Ga CRS Painted (Antimicrobial) (STD)
- AF Anodized Extruded Aluminum
- PAF Painted (Antimicrobial) Fabricated Aluminum
- 5F 18-Ga Type 304 SS Brushed

Housing/Flange Options

- 2H 20-Ga CRS/18-Ga CRS (Antimicrobial) (STD)
- 5H 20-Ga Type 304 SS
- 2H5 20-Ga CRS/20-Ga Type 304 SS
- PAH .050" Painted Aluminum (Antimicrobial)

Lens Type

- MLP Micro Linear Prism (STD)
- SL Specified Lens

Options

- EL One-Lamp Indoor Battery Pack (32°F) Fuse & Holder
- GL Green Phosphor Lamps (32W T8, 550nm only, 2 lamps included) Hinged Door (w/o NSF listings)
- HD Sealed Wireway
- HJ Install Frame
- IF Plaster Frame (add .25" to ceiling cutout)
- RM Continuous Row Mount

Lighting Levels – Ballast and RFI Information

LAMPS	LEVEL 1	LEVEL 2	LEVEL 3	VARIABLE LEVEL (DIMMING)
(6) T8 Lamps	(2) 3 lamp ballasts + (1) RFI filter	(1) 4 lamp(1) 2 lamp ballasts + (2) RFI filters	(3) 2 lamp ballasts + (3) RFI filters	(2) 3 lamp dimming ballasts + (2) RFI filters
(4) T8 Lamps	(1) 4 lamp ballasts + (1) RFI filter	(2) 2 lamp ballasts + (2) RFI filters	N/A	(2) 2 lamp dimming ballasts + (2) RFI filters
(4) T8 Lamps + (2) T8 Green	N/A	(1) 4 lamp + (1) 2 lamp ballast (green) + (2) RFI filters	(2) 2 lamp + (1) 2 lamp ballast (green) + (3) RFI filters	(2) 2 lamp dimming ballasts + (1) 2 lamp dimming ballasts (green) + (3) RFI filters
(4) T5HO Lamps	(2) 2 lamp ballasts + (1) RFI filter	(2) 2 lamp ballasts + (2) RFI filters	N/A	(2) 2 lamp dimming ballasts + (2) RFI filters



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DIMENSIONAL DATA

