

MEDMASTER™ Surgical Suite Luminaires

M4SEDI SERIES – GREEN & WHITE LED USING KORE TECHNOLOGY™

PRODUCT FEATURES:

- » Green LED circuit creates an application-optimized spectrum for increased visual acuity with no transmission loss due to filters
- » Diffused high-efficiency lens for reduced glare
- » Symmetric, asymmetric/symmetric and full asymmetric optic distributions with uniform lens appearance
- » Universal housing accommodates either flange or grid applications
- » Sealed housing, smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- » Radiated and conducted emissions controlled as per MIL-STD-461G
- » For M4SEDI with all White LEDs, [click here](#)



SPECIFICATIONS

HOUSING: Standard 24-gauge cold rolled steel with dust-tight, sealed construction. Alternate material options available. Rigid housing flange with mitered and welded corners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours. Antimicrobial finish on all exposed painted surfaces of installed luminaire. Internal surfaces use a proprietary high reflectance coating (Reflectance: >92%). Flange finish matches housing, regardless of doorframe finish.

DOORFRAME: Standard 20-gauge cold rolled steel. One-piece inset style construction with welded corners. Steel and Aluminum selections are finished with gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Optional 20-gauge type 304 stainless steel (#4 finish-post fabrication). Antimicrobial finish standard on all exposed painted surfaces. Doorframe secured to housing with stainless steel aircraft cables and captive flush-mounted Phillips head stainless steel fasteners - (6) for 1x2, (8) for 1x4 and 2x2, (10) for 2x4. One-piece, closed-cell silicone gasket seals doorframe to housing.

OPTICS: Injection-molded, high refraction polycarbonate optics provided for each LED. Proprietary KORE Technology™ (Kenall Optical Radiance Engine) delivers improved visual performance and uniform diffuser luminance (<1.5:1 max/min ratio across full lens area). Impact-resistant diffused acrylic outer lens. Symmetric/asymmetric (ASYM) and full-asymmetric (FASYM) optics provide asymmetric throw while retaining uniform luminance.

ELECTRICAL: Serviceable mid-power white LED array. Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI (R9 > 50) available. 530 nm green mid-power LED array. 120/277VAC or 347VAC, 50/60Hz electrical input with replaceable high power factor electronic, constant-current driver (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range. and dim-to-dark capabilities on white and green circuit. Maximum dimming source current per luminaire 0.4mA (white) / 0.2mA (green). EMC meets or exceeds FCC CFR Part 15 and MIL STD 461F requirements. White and green circuit should be independently powered and dimmed.

INSTALLATION: Non-IC recessed ceiling mounting into grid and flange application types. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into grid or flange (drywall) ceiling applications. See below for install frames, optionally used for flange mount in hard ceilings (not required).

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. ETL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Compliant with MIL-STD 461G for radiated and conducted emissions (including when ordered with LEL option). CCEA Approved.



ORDERING INFORMATION (Ex: M4SEDI-14-30G/32L-40K9-DIM1-277-2F-4H-FASYM-LEL)

| Model | Size | Lamp Power | Lamp Color | Driver | Voltage | Doorframe | Housing | Optics | Options |
|-------------------|---------------------------------|------------|--------------------|--|---------|-----------|--|--|---|
| M4SEDI | | | | DIM1 | | | | | |
| Size | | | Lamp Color* | | | | Housing Options | | |
| 12 | 1'x2' Nominal | | 30K8 3000K, 80 CRI | | | | 4H 24-Ga CRS in Antimicrobial Gloss White (STD) | | |
| 14 | 1'x4' Nominal | | 30K8 3000K, 90 CRI | | | | 2H 20-Ga CRS in Antimicrobial Gloss White | | |
| 22 | 2'x2' Nominal | | 35K8 3500K, 80 CRI | | | | 5H 20-Ga Type 304 Stainless Steel | | |
| 24 | 2'x4' Nominal | | 35K9 3500K, 90 CRI | | | | PAH .050" Fabricated Aluminum in Antimicrobial Gloss White | | |
| | | | 40K8 4000K, 80 CRI | | | | | Optics | |
| | | | 40K9 4000K, 90 CRI | | | | | SYM Symmetric, Diffused DR Acrylic | |
| | | | 50K8 5000K, 80 CRI | | | | | ASYM Asymmetric/Symmetric Optic with Diffused DR Acrylic | |
| | | | 50K9 5000K, 90 CRI | | | | | FASYM Full Asymmetric Optic with Diffused DR Acrylic | |
| Lamp Power | | | | Driver Type | | | | | Options |
| 1'x2' | | | | DIM1 0-10V Dimming to 1% with Dim-to-Dark | | | | | LEL* 10W Emergency Battery Pack |
| 36G | 36 Watt Green LED | | | | | | | | 20KV 20KV/KA Surge Protection per IEEE/ANSI C62.41.2 Cat. A |
| 1'x4' | | | | Voltage | | | | | FS Fuse & Holder |
| 30G/32L | 30 Watt Green/32 Watt White LED | | | 120 120VAC, 50/60Hz | | | | | HJ Sealed Wireway |
| 38G | 38 Watt Green LED | | | 277 277VAC, 50/60Hz | | | | | IF*† Install Frame |
| 2'x2' | | | | 347 347VAC, 60Hz | | | | | RM* Continuous Row Mounting |
| 30G/45L | 30 Watt Green/45 Watt White LED | | | | | | | | |
| 38G | 38 Watt Green LED | | | Doorframe Options | | | | | |
| 2'x4' | | | | 2F 20-Ga CRS in Antimicrobial Gloss White (STD) | | | | | |
| 22G/40L | 22 Watt Green/40 Watt White LED | | | PAF Fabricated Aluminum in Antimicrobial Gloss White | | | | | |
| 22G/80L | 22 Watt Green/80 Watt White LED | | | 5F 20-Ga Type 304 SS with 4B Brushed Finish | | | | | |

For M4SEDI with all White LEDs, [click here](#)

* Only available when installing in drywall ceilings (flange mount)

† Add .375" to ceiling cut out dimensions

▲ Wired to white LED when green/white lamping is selected; n/a 347V

• n/a for all-green lamp configurations



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M4SEDI SERIES – TECHNICAL DATA

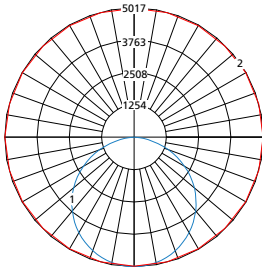
PERFORMANCE

Green/White LED

| Model | Lamp Power | Green LED Circuit | | | | | White LED Circuit | | | | | TM-21 Reported L70: Green/White (hrs) |
|----------|------------|---------------------------------|-------|-------|-----------------|-------------------------------|---------------------------------|--------|--------|-----------------|-------------------------------|---------------------------------------|
| | | Delivered Lumens, By Optic (lm) | | | Input Power (W) | Input Current @ 120V/277V (A) | Delivered Lumens, By Optic (lm) | | | Input Power (W) | Input Current @ 120V/277V (A) | |
| | | SYM | ASYM | FASYM | | | SYM | ASYM | FASYM | | | |
| M4SEDI14 | 30G/32L | 4,478 | 4,115 | 4,132 | 35 | 0.379 / 0.144 | 4,896 | 4,499 | 4,517 | 37 | 0.379 / 0.144 | >60,000 / >72,000 |
| M4SEDI22 | 30G/45L | 4,475 | 4,068 | 4,058 | 33 | 0.360 / 0.136 | 7,128 | 6,480 | 6,464 | 52 | 0.511 / 0.213 | >60,000 / >72,000 |
| M4SEDI24 | 22G/40L | 4,733 | 4,425 | 4,426 | 27 | 0.335 / 0.130 | 7,496 | 7,009 | 7,010 | 48 | 0.423 / 0.202 | >60,000 / >72,000 |
| | 22G/80L | | | | | | 14,413 | 13,476 | 13,478 | | | |

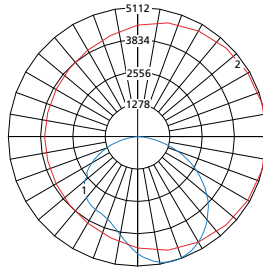
All white LED circuit values reported at 4000K, 80CRI (40K8). Use Performance Scaling table to determine lumen output at desired lamp color. Subject to change without notice. Visit www.kenall.com for .ies files and additional information

Model: M4SEDI-24-22G/80L-40K8-DIM1-vvv-www-xxx-SYM-zzzz (White)



Max Candela = 5017 Located At Horizontal Angle = 0, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: M4SEDI-24-22G/80L-40K8-DIM1-vvv-www-xxx-FASYM-zzzz (White)

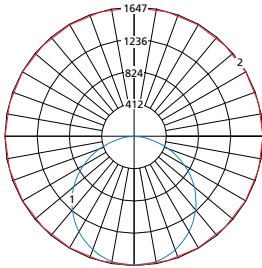


Max Candela = 5112 Located At Horizontal Angle = 0, Vertical Angle = 15
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

Performance Scaling, by Lamp Color

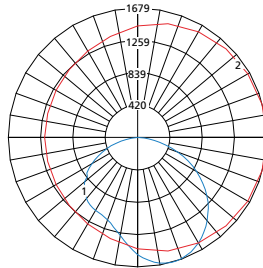
| Model | Lamp Power |
|-------|------------|
| 30K8 | 0.92 |
| 30K9 | 0.83 |
| 35K8 | 0.95 |
| 35K9 | 0.87 |
| 40K8 | 1.00 |
| 40K9 | 0.89 |
| 50K8 | 0.96 |
| 50K9 | 0.89 |

Model: M4SEDI-24-22G/80L-40K8-DIM1-vvv-www-xxx-SYM-zzzz (Green)



Max Candela = 1647 Located At Horizontal Angle = 0, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: M4SEDI-24-22G/80L-40K8-DIM1-vvv-www-xxx-FASYM-zzzz (Green)



Max Candela = 1679 Located At Horizontal Angle = 0, Vertical Angle = 15
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)



M4SEDI SERIES – TECHNICAL DATA

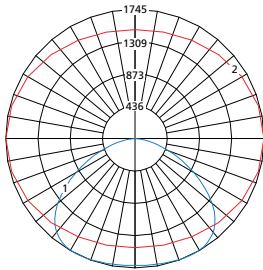
PERFORMANCE

Green LED

| Model | Lamp Code | Initial Delivered Lumens, By Optic (lm) | | | Input Power (W) | Input Current @ 120V/277V (A) | TM-21 Reported L70 (hrs) |
|----------|-----------|---|-------|-------|-----------------|-------------------------------|--------------------------|
| | | SYM | ASYM | FASYM | | | |
| M4SEDI12 | 36G | 4,777 | 4,140 | 4,100 | 41 | 0.420 / 0.165 | >60,000 |
| M4SEDI14 | 38G | 6,134 | 5,636 | 5,660 | 43 | 0.436 / 0.172 | >60,000 |
| M4SEDI22 | 38G | 6,465 | 5,878 | 5,863 | 43 | 0.436 / 0.172 | >60,000 |

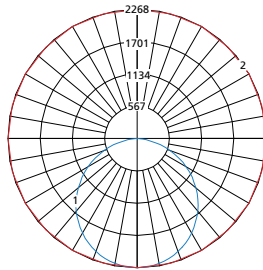
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Model: M4SEDI-12-36G-DIM1-vvv-wwww-xxx-SYM-zzzz



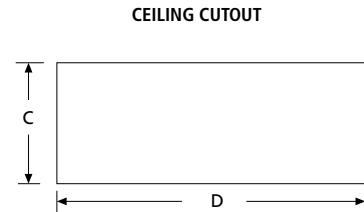
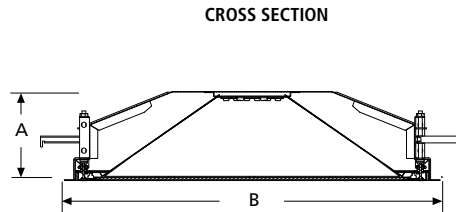
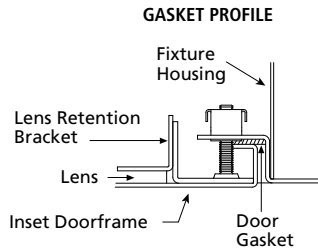
Max Candela = 1745 Located At Horizontal Angle = 0, Vertical Angle = 25
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)

Model: M4SEDI-22-38G-DIM1-vvv-wwww-xxx-SYM-zzzz



Max Candela = 2268 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

DIMENSIONAL DATA



| DIMENSIONAL DATA (IN INCHES) | | | | |
|------------------------------|------|---------------|-------|-------|
| | A | B | C | D |
| 1x2 | 5.22 | 11.75 x 23.75 | 10.85 | 22.85 |
| 1x4 | 5.22 | 11.75 x 47.75 | 10.85 | 46.85 |
| 2x2 | 5.22 | 23.75 x 23.75 | 22.85 | 22.85 |
| 2x4 | 5.22 | 23.75 x 47.75 | 22.85 | 46.85 |

* Add .375" to ceiling cut out dimensions when IF Option is specified

