

MEBF

LED Recessed Grid/Flanged Surgical Suite/Operating Room



SPECIFICATIONS

DESCRIPTION

The MEBF is a complete lighting solution for the operating room. High transmission and diffusion lens with choice of symmetric, asymmetric/symmetric, and full asymmetric optics to accommodate the lighting needs of surgical suites. Available in 1x4, 2x2, and 2x4 sizes. Typically positioned around the perimeter of the operating room. Available with choice of housing and doorframe materials, anti-microbial paint, and a MIL STD 461G compliant option, the MEBF is the perfect choice in the operating room surgical suite. Universal housing accommodates both recessed grid and recessed flanged applications.

DOORFRAME

Choice of heavy gauge cold roll steel, stainless steel, or aluminum. White TGIC polyester powder coat with a 5-stage pre-treatment. Salt spray test >1,000 hours. Reflectance of 92%. Doorframe secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners. Antimicrobial finish optional.

ELECTRICAL SYSTEM

Electronic driver 0-10V, 1% dimming included standard. Long-life LED system rated for over >100K hours (L70 @ 25°C). Complies with federal energy efficiency standards.

OPTICAL SYSTEM

High transmission diffused DR acrylic lens. Internal reflector optics with choice of full symmetric, asymmetric/symmetric, or full asymmetric maintain a uniform appearance while being engineered specifically for surgical suite applications. RF grid lens included when MIL STD 461G Compliance option is ordered.

LISTINGS

UL Listed. NSF = NSF2 listed (Non-Food, Splash Zone). IP65 with wet location option. MIL option complies with MIL-STD-461G conducted emissions regulation and includes a radio suppression grid lens. Suitable for FED-STD-209E/Class 1 (ISO 3) cleanrooms.

MOUNTING

Easy installation with adjustable 90° swing arm system standard. Universal mounting allows for both recessed flanged and recessed grid mounting.

HOUSING

Choice of heavy gauge cold roll steel, stainless steel, or aluminum. Seam-welded construction. All doors attached to the housing with two stainless steel aircraft cables. Stainless steel Philips head screws secure door frame to housing. White TGIC polyester powder coat with a 5-stage pre-treatment. Salt spray test >1,000 hours. Reflectance of 92%. Antimicrobial finish optional.

LED

80 CRI or 90 CRI LEDs available in 2700K, 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

DOORFRAME GASKET

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

| Output | Delivered Lumens | System Wattage | L70 @25C (hrs) |
|--------|------------------|----------------|----------------|
| SL | 4650 | 33 | >100K |
| ML | 7974 | 57 | >100K |
| HL | 11150 | 80 | >100K |
| SM | 12040 | 86 | >100K |
| MM | 13016 | 93 | >100K |
| HM | 15728 | 112 | >100K |
| SH | 16500 | 118 | >100K |
| MH | 20000 | 143 | >100K |
| HH | 25000 | 179 | >100K |

* Delivered Lumens shown were tested with 4000K LEDs

| Approximate Color Temperature Multiplier | |
|--|------|
| 5000K | 1.03 |
| 4000K | 1 |
| 3500K | 0.97 |
| 3000K | 0.94 |
| 2700K | 0.91 |

Example: MEBF24-40-MH-B20-B18-ASSY-M-1

Custom Lumens: MEBF24-40-MH-B20-B18-ASSY-M-1-18500 for 18,500 lumens.

| Series | CCT | Illumination Level ¹ | Housing |
|-------------------|-----------------|---------------------------------|---|
| MEBF14 1x4 | 27 2700K | SL Standard Low | B20 20 Gauge Cold Roll Steel |
| MEBF22 2x2 | 30 3000K | ML Medium Low | B18 18 Gauge Cold Roll Steel |
| MEBF24 2x4 | 35 3500K | HL High Low | SH18 18 Gauge Stainless Steel (DR) |
| | 40 4000K | SM Standard Medium | SHP18 18 Gauge Stainless Steel (Painted) |
| | 50 5000K | MM Medium Medium | SHB18 18 Gauge Stainless Steel (Brushed) |
| | | HM High Medium | ALH .063" Aluminum (Painted) |
| | | SH Standard High | |
| | | MH Medium High | |
| | | HH High High | |

¹ 1x4 and 2x2 max lumen output is HM - 15728 lumens. If higher lumen outputs are needed, consult factory.

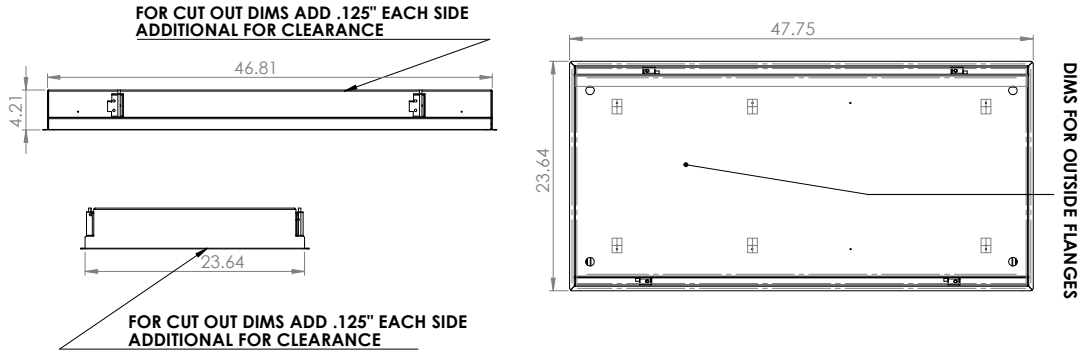
| Door Frame | Optics | Voltage |
|--|---|-------------------|
| Inset Doorframe | SY Full Symmetric Optics | M 120/277V |
| B18INS 18 Gauge Cold Roll Steel | ASSY Asymmetric/Symmetric Optics | |
| SH18INS 18 Gauge Stainless Steel (DR) | FAS Full Asymmetric Optics | |
| SHP18INS 18 Gauge Stainless Steel (Painted) | | |
| SHB18INS 18 Gauge Stainless Steel (Brushed) | | |
| ALHINS .063" Aluminum (Painted) | | |
| Overlap Doorframe | | |
| B18OVL 18 Gauge Cold Roll Steel | | |
| SH18OVL 18 Gauge Stainless Steel (DR) | | |
| SHP18OVL 18 Gauge Stainless Steel (Painted) | | |
| SHB18OVL 18 Gauge Stainless Steel (Brushed) | | |
| ALHOVL .063" Aluminum (Painted) | | |

| Driver | Circuits | Options |
|---|---------------------|--|
| BLANK 0-10V Dimming Driver (<i>included standard</i>) | 1 1 Circuits | 12EBL 12 Watt Emergency Driver |
| CD5 0-10V 5% to Off Dimming Driver | 2 2 Circuits | MIL1 MILSTD 461G compliant, 1 circuit ¹ |
| EDN Electronic Driver Non-Dimming | | MIL2 MILSTD 461G compliant, 2 circuit ¹ |
| DALI Fifth Light Dali, Dimming | | 90 90 CRI |
| LDE1 Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology | | CR Continuous run |
| | | AM Anti-Microbial Paint |
| | | VDO Lutron Vive Integral Fixture Control (RF with Daylight and Occupancy Sensing) |
| | | 10KVKA 10KV/KA Surge Protector |
| | | TPS Tamper-Proof Fasteners |
| | | RFIL RFI Lens |
| | | RFIF1 RFI Filter, 1 circuit |
| | | RFIF2 RFI Filter, 2 circuit |

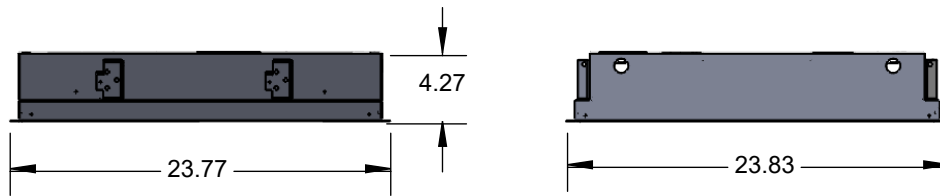
¹ For MILSTD 461G Compliance, an RFI grid lens will be included, and option RFI does not need to be ordered.

DIMENSIONS

2x4



2x2



1x4

