Fail-Safe

DESCRIPTION

This architectural, recessed patient room light offers both exam and ambient lighting in one streamlined fixture. The MAE LED features innovative optical technology which provides powerful, focused illumination for examinations. Its unique design directs the light onto the bed and provides glare-free illumination for both the healthcare professional and patient. An architecturally styled design helps bring a relaxed, comfortable feel to any patient room environment.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Application
The MAE LED is designed for use in healthcare facilities, specifically for use in patient rooms, exam rooms, and recovery areas to facilitate examinations and general tasks required by both patient and medical professional.

Housing/Reflector
20 gauge steel, powder coat painted matte white.

Lens
Exam: Linear, ribbed acrylic side lenses. 0.100" thick on ends; prisms are located on the inside for easy cleaning.
Ambient: Linear ribbed, 0.100" thick.

Light Emitting Diode (LED)
LEDs available in 3000, 3500, 4000 and 5000K, with minimum 80 CRI. Projected life is 50,000 hours at 70% lumen maintenance.

Finish
Matte white, electrostatically applied, powder coat finish. Optional anti-microbial finish, matte white.

Transformer/Driver
Electronic driver.
0-10V dimming standard.

Labels
cULus listed for damp locations.

Warranty
Five year warranty on LED's and electrical.

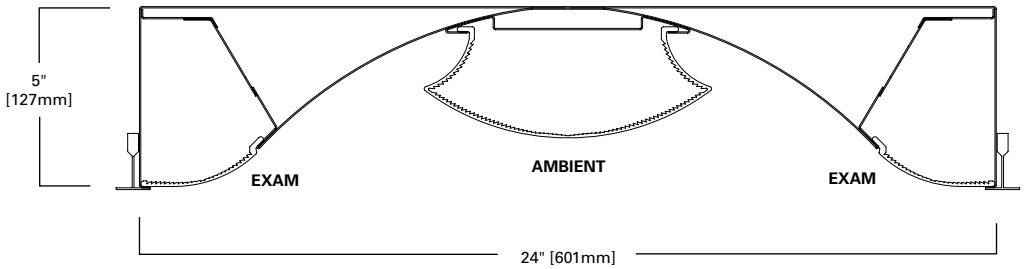
MAE LED

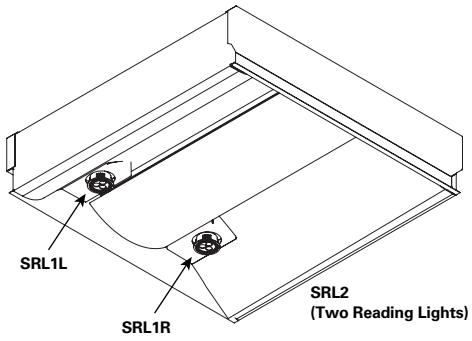
2' x 2'
2' x 4'
LD4 LED

Ambient
Exam
Reading

Wipe Down Door
Vandal Resistant Door

MAE LED





ORDERING INFORMATION

SAMPLE NUMBER: MAE-G-4-LD4-120-2STD/STD-40-EDC2-EL10W

MAE | **G** | | **LD4** | | | | / | | | | | |

Product Family
MAE =Medical
Ambient
Exam Light [1, 7]

Mounting [1]
G=9/16", 1" or 1-1/2"
T-bar grid

For Flange (sheet-rock, hard-lid ceilings), specify the following, shipped separately:

2' x 2': DFCL-2424W-U [4]
2' x 2': DFCL-2424AMW-U [4]
2' x 4': DFCL-2448W-U [4]
2' x 4': DFCL-2448AMW-U [4]

Length
2=2'
4=4'

LED
LD4=LED 4.0

Voltage (Must Specify)
120V or 277V

Ambient Number of Modules in Cross-section [6, 12]
1=(1) LED Module
2=(2) LED Modules
3=(3) LED Modules

Ambient Illumination Level [6]
STD=Standard Output
LO=Low Output
HI=High Output

Exam Illumination Level (1 Module/Side)
STD=Standard Output
LO=Low Output
HI=High Output

Color Temperature
30=3000K
35=3500K
40=4000K
50=5000K

Electronic Driver
EDC_=Electronic Driver,[10]
Non-Dimming
EDD_=Electronic Driver,
0-10V Dimming 10% [10]
ED1D_=Electronic Driver,
0-10V Dimming 1% [10]

Number of Circuits (Exam,Ambient)
1 = 1 Circuit
2 = 2 Circuits
3 = 3 Circuits [14]

Lamp Shield
Blank=Linear Ribbed Frosted Acrylic

Options
LVCP=Low Voltage Relay [3, 5, 9]
Load 1 = Inboard (ambient)
Load 2 = Outboard (exam)
LVCP/AMB=Low Voltage Relay, Ambient [9]
If 1 or 2 module cross section, module (s) will be connected to relay, single load.
If 3 module cross section:
Load 1: inner ambient module
Load 2: outer ambient modules
LVCP/AMB/SRL2=Low Voltage Relay [9]
Load 1=Inboard (ambient)
Load 2=2LED Reading Lights (single circuit)
(Order lamps on separate line item)
LVCP/SRL22C=Low Voltage Relay [9]
Load 1=LED Reading Light #1
Load 2=LED Reading Light #2
(Order lamps on separate line item)
GLR=Fuse and Holder
EL7W=7W Emergency [2,11,13]
EL10W=10W Emergency [2,11,13]
EL14W=14W Emergency [2,11,13]
AM=Antimicrobial Finish (all painted parts)
90=9CRI
SRL1L=Socket, hardware and transformer for one MR16 LED lamp (7.5W max.) Separate circuit default, (left hand orientation) [8, 9, 11]
(Order lamp on separate line item)
SRL1R==Socket, hardware and transformer for one MR16 LED lamp (7.5W max.) Separate circuit default, (right hand orientation) [8, 9,11]
(Order lamp on separate line item)
SRL2/1C=Sockets, hardware and transformer for two MR16 LED lamps (7.5W max.) Separate circuit operating both lamps.
(Order lamps on separate line item). [8, 9,11]
SRL2/2C=Sockets, hardware and two transformer for two MR16 LED lamps (7.5W max.) Two circuits, one operating each lamp.
(Order lamps on separate line item)[8, 9,11]
WDDCPH=Wipe Down Door, Inset, 0.125" Clear Acrylic Aluminum Extruded, Matte White Paint, Stainless Steel full Piano Hinge [15]
VRDCPH=High Abuse Door, Inset, 0.187" Clear Polycarbonate Aluminum Extruded, Matte White Paint, Stainless Steel Continuous Piano Hinge [15]

Notes:

1 Hard metric sizes available. Consult factory for ordering information.
2 When choosing emergency battery pack, dedicated voltage must be specified.
3 The switching device is to be normally-open, momentary contact switch. Activation of the contact provides the following illumination scenarios: Ambient only - on, Exam only - on, Ambient and Exam - on, Ambient and Exam - off. Other switching options available; contact factory.
4 DFCL=Drywall framing kit, clean room. Supplied with gasketing, to be applied in the field, "AMW" signifies "anti-microbial" white paint finish.
5 The switching device is to be a normally open, momentary contact switch. Activation of the contact provides on/off switching operation.
6 Default is for 2 circuit operation - one circuit for ambient, one circuit for exam.
7 Not available with germ-guard door (GGD).
8 SRL is socket (GU 5.3), hardware and transformer for LED lamp, order on separate line item.
9 Must specify voltage.
10 Dimming driver standard. Purple and gray low voltage leads connected for EDD1, D2, D3. Not connected to EDC1, C2, C3. Number of circuits does not include reading light(s), as they are called out when specifing SRLs.
11 Thermal protectors included. For non-IC applications only.
12 2HI, 3HI, or 3STD not available with SRL (1 or 2) and WDD or VRD.
13 2X2 housing requires emergency to be mounted on back of fixture, adding an additional 2" to fixture height.
14 Exam section is always a single circuit. The second and third circuits are always within the ambient section. The SRL is not included in the "number of circuits" - as it is always on a separate circuit.
15 Gasket applied between lens and doorframe, and between doorframe and housing.

LED Night Light and Chart Light - MR16 LED Lamps
*Lamps ordered on separate line item

Lamp	Wattage	Color Temp	CRI	Beam Angle*
SMR16LED53 Fail-Safe MR16 LED, GU5.3 Base	**7**=7.5W (400 nominal lumens)	**27**=2700K **30**=3000K	**9**= 95	**10**= 10° **25**= 25° **36**= 36°

Example: SMR16LED53/7/27/9/36

ACCESSORIES
MSC4-PK=Mounting Security Clips. Use secure fixture to grid or to attach tie-wires'
DFCL-2448W-U*=2' x 4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 48.25"
DFCL-1248W-U*=1' x 4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 12.25" x 48.25"
DFCL-2424W-U*=2' x 2' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 24.25"
* Change W to AMW for antimicrobial matte white finish

Nominal Input Watts / Nominal Delivered Lumens					
2' x 2'					
Ambient (Center)			Exam (Sides)		
Number of Modules, Level	Nominal Input Watts	Nominal Delivered Lumens*	Level	Nominal Input Watts	Nominal Delivered Lumens*
2LO	26.2	2139	LO	26.2	2139
2STD	36.6	2856	STD	36.6	2856
2HI	47.2	3547	HI	47.2	3547
3LO	39.3	3320			
3STD	54.9	4436			
3HI	70.8	5513			

Nominal Input Watts / Nominal Delivered Lumens					
2' x 4'					
Ambient (Center)			Exam (Sides)		
Number of Modules, Level	Nominal Input Watts	Nominal Delivered Lumens*	Level	Nominal Input Watts	Nominal Delivered Lumens*
2LO	52.4	4278	LO	52.4	4278
2STD	73.2	5712	STD	73.2	5712
2HI	94.4	7095	HI	94.4	7095
3LO	78.6	6665			
3STD	109.8	8872			
3HI	141.8	11042			

* Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

COOPER Lighting Solutions

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