

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe

MAE | LD4 LED

Medical Recessed Patient Room Ambient, Exam, Reading LED
2' x 2' and 2' x 4'

Typical Applications

Healthcare • Patient Rooms • Exam Rooms • Recovery Areas

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Product Certification



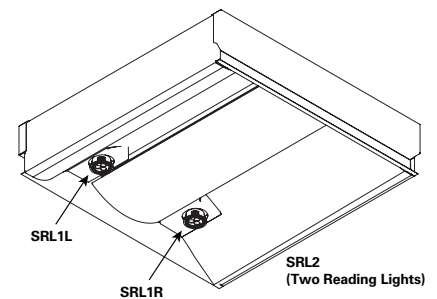
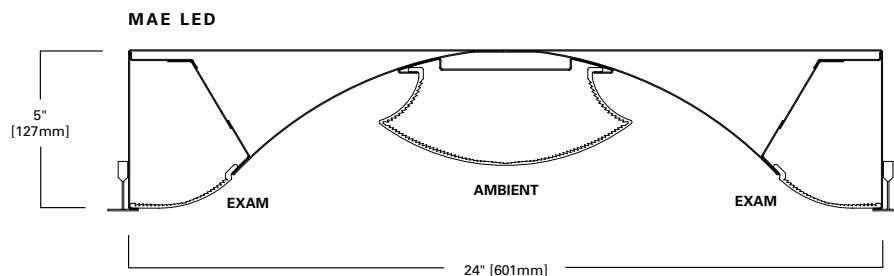
Product Feature



Top Product Features

- Ideal for patient rooms when ceiling mount illumination is preferred
- Aesthetically pleasing fixture provides an upgrade to any space
- Die-cast aluminum end caps
- Dedicated LED divider for independent up/down switching
- Extruded aluminum rail and housing for durability and aesthetics
- Matte white powder coat paint. Anti-microbial paint available
- Options to meet Buy American Act requirements

Dimensional and Mounting Details



Order Information

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

Domestic Preferences	Product Family	Mounting	Length	LED	Voltage	Ambient Number of Modules in Cross-section	Ambient Illumination Level	Exam Illumination Level (1 Module/Side)
[Blank] =Standard BAA =Buy American Act	MAE =Medical Ambient Exam Light ^{(1),(7)}	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⁾	2 =2' 4 =4'	LD4 =LED 4.0	120V or 277V	1 =(1) LED Module 2 =(2) LED Modules 3 =(3) LED Modules	STD =Standard Output LO =Low Output HI =High Output	STD =Standard Output LO =Low Output HI =High Output
Notes ⁽¹⁶⁾ Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes (1) Hard metric sizes available. Consult factory for ordering information. (7) Not available with germ-guard door (GGD).	Notes (1) Hard metric sizes available. Consult factory for ordering information. (4) DFCL=Drywall framing kit, clean room. Supplied with gasketing, to be applied in the field, "AMW" signifies "anti-microbial" white paint finish.				Notes (6) Default is for 2 circuit operation - one circuit for ambient, one circuit for exam. (12) 2HI, 3HI, or 3STD not available with SRL (1 or 2) and WDD or VRD.	Notes (6) Default is for 2 circuit operation - one circuit for ambient, one circuit for exam.	

Color Temperature	Electric Driver	Number of Circuits (Exam, Ambient)	Lamp Shield	Options	Accessories
30 =3000K 35 =3500K 40 =4000K 50 =5000K	EDC =Electronic Driver, Non-Dimming ⁽¹⁰⁾ EDD =Electronic Driver, 0-10V Dimming 10% ⁽¹⁰⁾ ED1D =Electronic Driver, 0-10V Dimming 1% ⁽¹⁰⁾	1 =1 Circuit 2 =2 Circuits 3 =3 Circuits ⁽¹⁴⁾	[Blank] =Linear Ribbed Frosted Acrylic	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⁾	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
	Notes (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 specifying SRLs.	Notes (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.		Notes (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. (5) The switching device is to be a normally open, momentary contact switch. Activation of the contact provides on/off switching operation. (8) SRL is socket (GU 5.3), hardware and transformer for LED lamp, order on separate line item. (9) Must specify voltage. (11) Thermal protectors included. For non-IC applications only. (13) 2X2 housing requires emergency to be mounted on back of fixture, adding an additional 2" to fixture height. (15) Gasket applied between lens and doorframe, and between doorframe and housing.	Notes (17) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

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

Product Specifications

Application

- Designed for use in healthcare facilities where exam and ambient illumination is required:
 - Patient Rooms
 - Exam Rooms
 - Recovery Areas

Housing and Reflector

- Die-formed 20-gauge construction
- Electrostatically applied, Matte White powder coat finish
- Optional Matte White antimicrobial finish
- Optional vandal resistant, high abuse door or wipe down door

Lens

- Exam:
 - Linear ribbed, frosted acrylic side lenses; 0.100" thick on ends
 - Prisms located inside for easy cleaning
- Ambient:
 - Linear ribbed, frosted acrylic center lens; 0.100" thickness

LEDs

- Available in 3000K, 3500K, 4000K and 5000K; 80 CRI minimum
- Choice of Standard, Low or High illumination levels for both exam and ambient compartments
- Projected life is 50,000 hours at 70% lumen maintenance

Electrical

- Electronic driver 120-277V, dimming driver standard
- 0-10V dimming down to 1% or 10%
- Non-dimming available

Compliances

- cULus listed for damp locations

Warranty

- Five year limited warranty on LEDs and Electrical, consult website for details. www.cooperlighting.com/legal

Nominal Input Watts/Delivered Lumens

 [View IES files](#)

2' x 2'						2' x 4'					
Ambient (Center)			Exam (Sides)			Ambient (Center)			Exam (Sides)		
Number of Modules, Level	Nominal Input Watts	Nominal Delivered Lumens*	Level	Nominal Input Watts	Nominal Delivered Lumens*	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	2LO	52.4	4278	LO	52.4	4278
2STD	36.6	2856	STD	36.6	2856	2STD	73.2	5712	STD	73.2	5712
2HI	47.2	3547	HI	47.2	3547	2HI	94.4	7095	HI	94.4	7095
3LO	39.3	3320				3LO	78.6	6665			
3STD	54.9	4436				3STD	109.8	8872			
3HI	70.8	5513				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.