

Project		Catalog #		Type	
Prepared by		Notes		Date	



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Fail-Safe

MAE

Patient Room Recessed Ceiling
Ambient, Exam, Reading
Open or Enclosed
2 x 2 / 2 x 4

Typical Applications
Healthcare • Patient Rooms • Exam Rooms • Recovery Areas

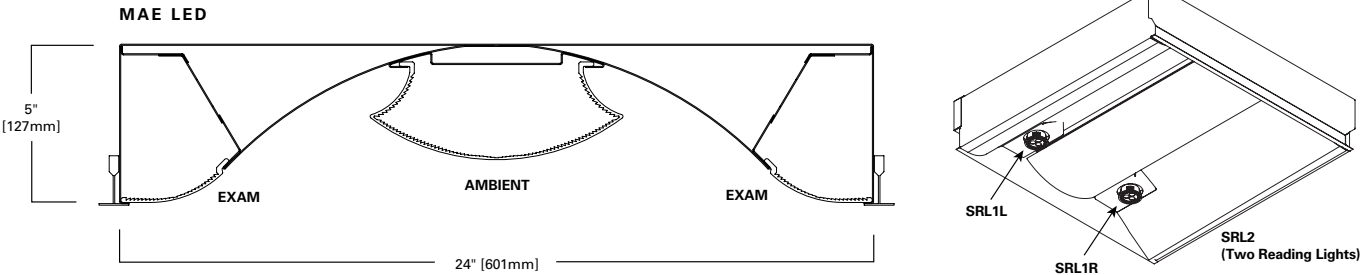
Product Certification

Product Feature

Top Product Features

- Ideal for over-the-bed, recessed ceiling, patient room illumination
- Aesthetically pleasing frosted acrylic center lens for soft ambient lighting
- Attractive outer two frosted acrylic lenses provide functional exam lighting
- Integral low voltage relay, 2 or 3 load, on/off or dimming - for patient control via nurse call systems
- Available swing-down door frame and clear lens (acrylic or polycarbonate) for additional protection
- Optional reading light, utilizing MR16 LED lamps
- High abuse door frame and lens (VRDCPH), using clear polycarbonate lens, aluminum extruded door, and continuous piano hinge
- Ligature resistant when specifying vandal resistant door
- 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

MAE-G-4-LD4-120-2HI/HI-40-EDD2-LVC3/AD/ED/SRL2

Domestic Preferences ⁽¹⁶⁾	Product Family	Mounting ⁽¹⁾	Length	LED	Voltage (Must Specify)	Ambient Number of Modules in Cross-section ^{(6), (12)}	Ambient Illumination Level ⁽⁶⁾	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-2424AW-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)	Shielding	Options	Accessories ⁽¹⁷⁾
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, 2 loads, Non-Dimming. Specify voltage, 120 or 277. ^{(8), (9), (9)} Load 1=Inboard (ambient) & Load 2=Outboard (exam) LVCP/A=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/A/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) LVC3/AD/ED=Low Voltage Relay w/dimming - LVC3 controlling Ambient w/dimming ⁽¹⁸⁾ & Exam w/dimming LVC3/AD/ED/SRL2=Low Voltage Relay w/dimming - LVC3 controlling the ^{(18), (19)} Ambient w/dimming & Exam w/dimming, and SRL2. SRL=2 LED Reading Lights, non-dimming, single circuit). Order SRL2 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 Pink 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 120 or 277. 347 not available. (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. (18) LVC3 is capable of up to 3 loads, with 2 loads capable of dimming. 347 not available. (19) SRL2 are non-dimmable (both led lights on single circuit). SRL lamps to be ordered on separate line item.	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

Order Example: SMR16LED53/7/27/9/36

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°

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
- LVCP - Low Volt Relay, 2 loads non-dimming
- LVC3 - Low Volt Relay, 3 loads, 2 loads dimming.

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

2x2 No Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	12.2	1418	116.3	LO	24.5	1890	77.1
1 STD	17.4	1900	109.2	STD	34.8	2530	72.7
1 HI	22.6	2330	103.1	HI	42.5	3104	73.0
2 LO	24.5	2837	115.8				
2 STD	34.8	3799	109.2				
2 HI	45.2	4660	103.1				
3 LO	36.7	4255	116.0				
3 STD	52.3	5699	109.0				
3 HI	67.8	6990	103.1				

2x2 Vandal Resistant Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	12.2	1280	104.9	LO	24.5	1705	69.6
1 STD	17.4	1714	98.5	STD	34.8	2283	65.6
1 HI	22.6	2103	93.1	HI	42.5	2801	65.9
2 LO	24.5	2561	104.5				
2 STD	34.8	3428	98.5				
2 HI	45.2	4205	93.0				
3 LO	36.7	3840	104.6				
3 STD	52.3	5143	98.3				
3 HI	67.8	6308	93.0				

2x2 Wipe Down Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	12.2	1347	110.4	LO	24.5	1705	69.6
1 STD	17.4	1805	103.7	STD	34.8	2283	65.6
1 HI	22.6	2214	98.0	HI	45.2	2801	65.9
2 LO	24.5	2695	110.0				
2 STD	34.8	3609	103.7				
2 HI	45.2	4427	97.9				
3 LO	36.7	4042	110.1				
3 STD	52.3	5413	103.5				
3 HI	67.8	6640	97.9				

2x4 No Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	24	2913	121.4	LO	48.2	3587	74.4
1 STD	34.1	3900	114.4	STD	68.5	4804	70.1
1 HI	44.3	4784	108.0	HI	88.9	5893	66.3
2 LO	48	5825	121.4				
2 STD	68.3	7801	114.2				
2 HI	88.6	9569	108.0				
3 LO	72	8738	121.4				
3 STD	102.4	11701	114.3				
3 HI	132.9	14352	108.0				

2x4 Vandal Resistant Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	24	2628	109.5	LO	48.2	3238	67.2
1 STD	34.1	3521	103.2	STD	68.5	4336	63.3
1 HI	44.3	4318	97.5	HI	88.9	5318	59.8
2 LO	48	5258	109.5				
2 STD	68.3	7040	103.1				
2 HI	88.6	8635	97.5				
3 LO	72	7886	109.5				
3 STD	102.4	10561	103.1				
3 HI	132.9	12953	97.5				

2x4 Wipe Down Door Frame

Ambient (Center)				Exam (Sides)			
No. of Modules	Input Watts	Delivered Lumens	LPW	No. of Modules	Input Watts	Delivered Lumens	LPW
1 LO	24	2767	115.3	LO	48.2	3408	70.7
1 STD	34.1	3705	108.7	STD	68.5	4564	66.6
1 HI	44.3	4545	102.6	HI	88.9	5598	63.0
2 LO	48	5534	115.3				
2 STD	68.3	7411	108.5				
2 HI	88.6	9090	102.6				
3 LO	72	8301	115.3				
3 STD	102.4	11116	108.6				
3 HI	132.9	13635	102.6				

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.