

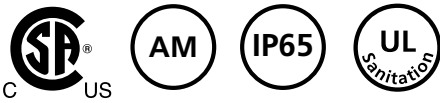
# MediMode™

MULTI-FUNCTION RECESSED PATIENT ROOM LIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- Provides ambient, reading and examination illumination for the patient bed environment
- Ambient/reading optical compartments provide low-glare, indirect illumination for patient comfort
- Capable of delivering 100+ average footcandles with excellent uniformity of examination
- Dual- and Tri-Switched (TS) options for greater switching flexibility
- Optical frame provides tool-less access for installation and servicing
- Optional full-lensed door provides enhanced protection with IP65 rating



## SPECIFICATIONS

### CONSTRUCTION

- 20-gauge, one-piece CRS housing (full-seam welding for models with optional full-lensed door)
- Optical frame with CRS formed reflectors and captured lenses
- Optional full-lensed door models have extruded, anodized aluminum door frame
- Housing and reflectors have antimicrobial paint finish that inhibits the growth of microbes

### OPTICS

- Optical frame has captured, translucent acrylic lenses
- Optional full-lensed door has nominal 0.125" clear acrylic or polycarbonate lens
- The LED light source is available in 3000K, 3500K, 4000K and 5000K CCT with standard > 90 CRI and high R9 values for excellent color rendition
- Optimal life > 60,000 hours at 80% lumen maintenance

### INSTALLATION

- MediMode is available in either a Grid (G) or Flange (F) model

### ELECTRICAL

- Each mode of operation is controlled independently by a dedicated driver
- Available in universal 120-277V, 50/60 Hz. Contact factory for other supply voltage needs (specification of dedicated voltage may be required for certain options)
- Drivers are suitable of 0-10V dimming down to 1% (Dimming performance will vary when low voltage controller options are selected)
- MediMode is wired to have independent control of each function
- The ambient/reading and night light functions can be controlled with integral low voltage controller (LVC) options. The LVC allows control with patient pillow switch (by others) wired through the nurse call system (by others)
- The exam function is typically controlled through a wall switch (by others)
- Dual-Switched - For multi-function use where ambient/reading and exam functions are controlled separately
- Tri-Switched option separates the control of the ambient and reading functions

### CERTIFICATIONS

- Built and tested to UL1598 standard and bears the cCSAus label for Wet Locations in covered ceilings
- IP65 rated per IEC 60598 (with optional full-lensed door)
- UL Sanitation rated with SLDA and SLDP option
- Photometrically tested per IESNA-79 standards and LM-80 compliant

### WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3,908–16,863
Wattage Range	45–170
Efficacy Range (LPW)	67–107
Reported Life (Hours)	L80/60,000

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## ORDERING GUIDE

**Example:** MDM-24-9-40-G-120-HLDA-NA-LVCDMS2

CATALOG #

MDM		Size	CRI	Color Temp	Switching	Ceiling/Mounting	Voltage
<b>Model</b>							
<b>MDM</b>	MediMode Patient Room Luminaire	<b>22</b> 2x2 (nom.) <b>24</b> 2x4 (nom.)	<b>9</b> 90 CRI <sup>1</sup> <b>8</b> 80 CRI	<b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K <b>50</b> 5000K	<b>Blank</b> Dual-Switched (Ambient and Reading functions controlled together) <sup>1</sup> <b>TS</b> Tri-Switched (Ambient and Reading functions controlled independently) <sup>3</sup>	<b>G</b> Grid Mount <b>F</b> Flange Mount	<b>U</b> Universal (120-277V) <b>120</b> 120 <b>277</b> 277

### Options

<b>HLDA</b>	Hinged lens door with clear acrylic lens (nom. 0.125" thickness) <sup>2</sup>
<b>HLDP</b>	Hinged lens door with clear polycarbonate lens (nom. 0.125" thickness) <sup>2</sup>
<b>SLDA</b>	Screwed-in lens door with clear acrylic lens (nom. 0.125" thickness) <sup>2,3</sup>
<b>SLDP</b>	Screwed-in lens door with clear polycarbonate lens (nom. 0.125" thickness) <sup>2,3</sup>
<b>WT</b>	White internal aluminum rails. Door frame will also be white when full-lensed door option is selected
<b>NA</b>	Night Light Amber (590nm), (120V only) <sup>4</sup>
<b>NW</b>	Night Light White (3000K), (120V only) <sup>4</sup>
<b>LVC1</b>	Low Voltage Controller for individual control of ambient/reading mode <sup>4,5,6</sup>
<b>LVC2</b>	Low Voltage Controller for individual control of ambient/reading mode and night light mode <sup>4,5,6</sup>
<b>LVC21</b>	Low Voltage Controller for individual control of ambient and reading modes <sup>4,6,7</sup>
<b>LVC3</b>	Low Voltage Controller for individual control of ambient mode, reading mode and night light option <sup>6,7</sup>
<b>LVCDMS1</b>	Low Voltage Controller with dimming (0-10V) for one or more luminaire functions. Use LVC Selection Chart included in this document for further information <sup>5,6</sup>
<b>LVCDMS2</b>	Low Voltage Controller with dimming (0-10V) for one or more luminaire functions. Use LVC Selection Chart included in this document for further information <sup>5,6</sup>
<b>LVCDMS3</b>	Low Voltage Controller with dimming (0-10V) for one or more luminaire functions. Use LVC Selection Chart included in this document for further information <sup>6,7</sup>
<b>LVCDMS4</b>	Low Voltage Controller with dimming (0-10V) for one or more luminaire functions. Use LVC Selection Chart included in this document for further information <sup>6,7</sup>
<b>ELL14</b>	Emergency battery pack <sup>8</sup>
<b>GMF</b>	Slow blow fuse
<b>TR</b>	Tamper-resistant hardware (center-pin Torx)

### Accessories

- FK22H** Framing kit for field conversion of 2x2 Grid (G) fixture to Flange (F) fixture is ordered. This accessory is not required if Flange (F) fixture is ordered.
- FK24H** Framing kit for field conversion of 2x4 Grid (G) fixture to Flange (F) fixture is ordered. This accessory is not required if Flange (F) fixture is ordered.

Notes:

- 1 Default selection unless specified otherwise
- 2 IP65 rated
- 3 UL Sanitation rated
- 4 Must specify voltage
- 5 For Dual-Switching models only
- 6 See LVC Selection Chart in this document for additional information
- 7 For Tri-Switching models only
- 8 Not available in 2x2 model

# MediMode™

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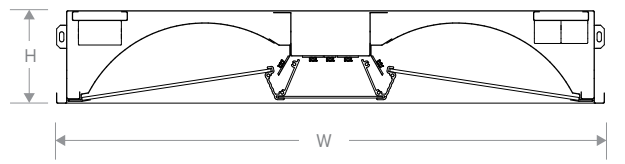
CATALOG #: \_\_\_\_\_

## PERFORMANCE

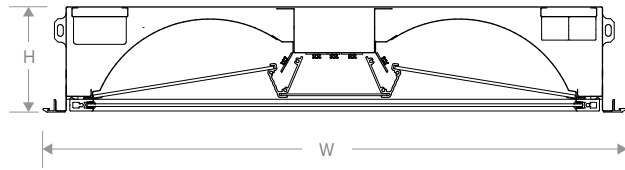
CRI	Model	CCT	Dual-Switched (DS) Ambient and Reading functions controlled together			Tri-Switched (TS) Ambient and Reading functions controlled independently								
			Ambient/Reading			Ambient			Reading			Exam		
			Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW
> 90	MDM24	3000K	5610	73	77	3908	45	86	6221	72	87	12475	146	86
		3500K	5730	73	78	3992	45	88	6354	72	89	12743	146	88
		4000K	5850	73	80	4076	45	90	6487	72	90	13011	146	89
		5000K	6229	73	85	4339	45	96	6907	72	96	13852	146	95
	MDM24 (w/ Full Acrylic Lensed Door)	3000K	5965	88	68	3801	56	67	6071	87	69	13610	170	80
		3500K	6093	88	69	3883	56	69	6201	87	71	13902	170	82
		4000K	6221	88	71	3965	56	70	6331	87	72	14194	170	84
> 80	MDM24	3000K	6452	73	88	4495	45	99	7155	72	100	14349	146	99
		3500K	6670	73	91	4647	45	102	7396	72	103	14833	146	102
		4000K	6773	73	93	4719	45	104	7510	72	105	15062	146	103
		5000K	6950	73	95	4842	45	107	7707	72	107	15457	146	106
	MDM24 (w/ Full Acrylic Lensed Door)	3000K	6861	88	78	4372	56	78	6982	87	80	15654	170	92
		3500K	7092	88	81	4520	56	80	7218	87	83	16182	170	95
		4000K	7202	88	82	4590	56	81	7330	87	84	16432	170	97
		5000K	7391	88	84	4710	56	84	7522	87	86	16863	170	99

CRI	Model	CCT	Dual-Switched (DS) Ambient and Reading functions controlled together					
			Ambient/Reading			Exam		
			Lumens	Input Watts	LPW	Lumens	Input Watts	LPW
> 90	MDM22	3000K	2501	36	70	5588	72	78
		3500K	2555	36	71	5708	72	80
		4000K	2609	36	73	5828	72	81
		5000K	2777	36	77	6205	72	87
	MDM22 (w/ Full Acrylic Lensed Door)	3000K	2639	42	63	5912	84	71
		3500K	2696	42	64	6039	84	72
		4000K	2753	42	66	6166	84	74
> 80	MDM22	5000K	2931	42	70	6564	84	78
		3000K	2877	36	80	6427	72	90
		3500K	2974	36	83	6644	72	93
		4000K	3020	36	84	6747	72	94
	MDM22 (w/ Full Acrylic Lensed Door)	5000K	3099	36	86	6924	72	97
		3000K	3036	42	72	6800	84	81
		3500K	3138	42	75	7029	84	84
		4000K	3187	42	76	7138	84	85
		5000K	3270	42	78	7325	84	87

**DIMENSIONS**



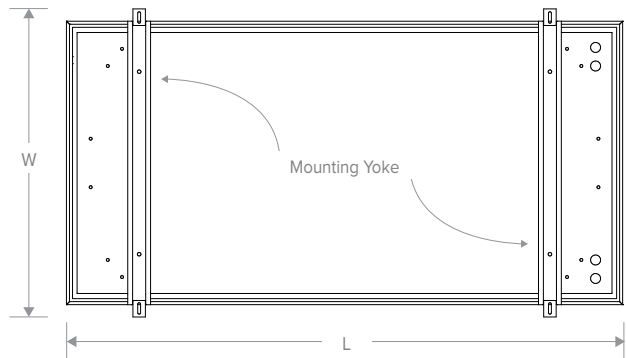
NO DOOR, GRID



WITH DOOR, FLANGE



2X4 BACK VIEW, GRID



2X4 BACK VIEW, FLANGE

	Model	H	W	L	Ceiling Opening
MDM22	Grid	4.00" (101.6 mm)	23.75" (603.3 mm)	23.75" (603.3 mm)	
	Grid, Full Lensed Door	4.44" (112.8 mm)	23.75" (603.3 mm)	23.75" (603.3 mm)	
	Flange	4.05" (113.8 mm)	24.84" (630.9 mm)	24.84" (630.9 mm)	24.13" x 24.13" (612.9 mm x 612.9 mm)
	Flange, Full Lensed Door	4.48" (113.8 mm)	24.84" (630.9 mm)	24.84" (630.9 mm)	24.13" x 24.13" (612.9 mm x 612.9 mm)
MDM24	Grid	4.00" (101.6 mm)	23.75" (603.3 mm)	47.75" (1212.9 mm)	
	Grid, Full Lensed Door	4.44" (112.8 mm)	23.75" (603.3 mm)	47.75" (1212.9 mm)	
	Flange	4.05" (113.8 mm)	24.84" (630.9 mm)	48.75" (1238.3 mm)	24.13" x 48.13" (612.9 mm x 1222.5 mm)
	Flange, Full Lensed Door	4.48" (113.8 mm)	24.84" (630.9 mm)	48.75" (1238.3 mm)	24.13" x 48.13" (612.9 mm x 1222.5 mm)

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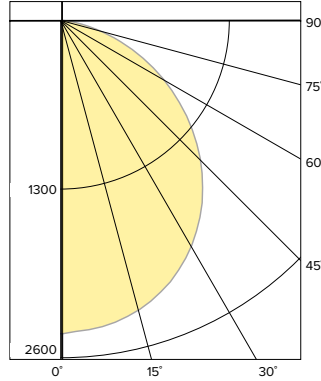
**PHOTOMETRY**

**MDM24-9-35-HLDA Ambient/Reading**

**LUMINAIRE DATA**

Test No.	18.01061
Description	Ambient/Reading
Delivered Lumens	6,098
Watts	87.7W
Efficacy	69.5
Mounting	Recessed

**POLAR GRAPH**



**CANDELA DISTRIBUTION**

0	2415
5	2392
15	2306
25	2123
35	1851
45	1505
55	1103
65	688
75	290
85	31
90	0

**ZONAL LUMEN SUMMARY**

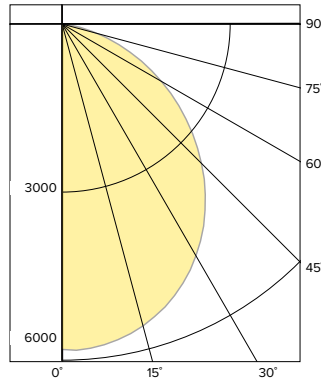
Zone	Lumens	% Luminaire
0-40	3040	49.8
0-60	5155	84.5
0-90	6098	100.0
0-180	6098	100.0

**MDM24-9-35-HLDA Examination**

**LUMINAIRE DATA**

Test No.	18.01062
Description	Examination (includes Ambient/Reading)
Delivered Lumens	13,920
Watts	169.5W
Efficacy	82.0
Mounting	Recessed

**POLAR GRAPH**



**CANDELA DISTRIBUTION**

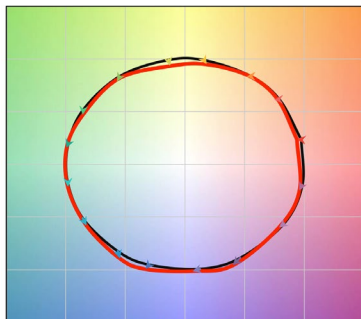
0	5820
5	5820
15	5588
25	5114
35	4412
45	3523
55	2549
65	1563
75	644
85	71
90	0

**ZONAL LUMEN SUMMARY**

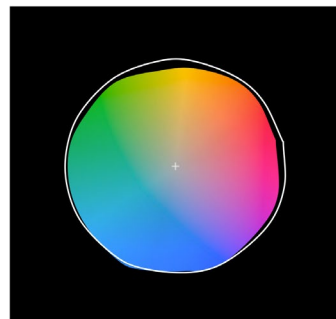
Zone	Lumens	% Luminaire
0-40	4423	50.9
0-60	7088	84.8
0-90	13920	100.0
0-180	13920	100.0

**TM-30 DATA**

**COLOR VECTOR GRAPHIC**



**COLOR DISTORTION GRAPHIC**



— Reference Illuminant — Test Source

MBMB TEST RESULTS	
CCT (K)	3590
Rf	91
Rg	99
CIE Ra	96
CIE R9	69-71

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## ADDITIONAL INFORMATION

### LVC SELECTION CHART

The Low Voltage Controller (LVC) option allows control of the luminaire functions from a patient pillow switch, bed side rail or wall switch with normally-open momentary dry contacts. Depending on the number of modes to be controlled, various control options are available.

Independent	I	Dedicated On/Off control for a single load.
Smooth dim	SM	Smooth increase in light level from a starting point of 25% by continuing to press the switch. When released, pressed and held again, the light level decreases until the switch is released.

MDM with Dual-Switching			
LVC Ordering Code	Function		
	Ambient/Reading (side light compartments)	Examination (center light compartment)	Night Light (Optional) (center light compartment)
LVC1	I	Typically controlled by a switch not connected to the LVC.	Not connected to LVC
LVC2	I		I
LVCDSM1	SM		Not connected to LVC
LVCDSM2	SM		I

MDM with Tri-Switching				
LVC Ordering Code	Function			
	Ambient (side light compartments)	Reading (side light compartments)	Examination (center light compartment)	Night Light (Optional) (center light compartment)
LVC21	I	I	Typically controlled by a switch not connected to the LVC.	Not connected to LVC
LVC3	I	I		I
LVCDSM3	SM	I		Not connected to LVC
LVCDSM4	SM	I		I