KIRLIN
HEALTHCARE LIGHTING

SmartLED™ MRI Lighting System

Shallow Lensed 6" Downlight
Up to 60,000 Hour Rated Life • Type IC
LM-80 Qualified • LM-79 Certified Photometry

MRS-06465

Specifications

Delivered System Performance
- Lumens**: -2500L** (35W); 2500 nominal lumens
- Distribution: MFL standard
- Color temperature: 3500°K standard; optional: -27K, -30K, -41K, or -50K
- CRI: 80+ standard; optional: -HC (90+)
- 60,000 hour life (L70)
- Fully sustainable: removable for servicing

Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

SmartLED™ MRI Lighting System Required
- Kirlin remote driver modules, cabinet, and RFI filters required for operation
- Components ordered separately, see below for driver information and **MRI-CABNT** for additional components
- The **MRI Configurator** can help determine the necessary components
- SmartLED driver modules provide 0-10V dimming to 0.38%

SmartLED™ Emergency Backup System
- **EMI-21220** or **EMI-03120** available for emergency power
- See specification sheet; order separately

Trim and Lens Assembly
- Tapered aluminum all white (field-paintable) smooth self-flanged trim
- Optional colors and finishes available
- Regressed tempered prismatic spread lens

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth for restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

Outlet Box (Aluminum)
- UL listed J-box; prewired with ½" knockouts

Installation & Hardware
- Requires minimum 18 AWG twisted pair shielded wire from SmartLED™ MRI Lighting System to fixtures
- Recesses in ceilings up to 1-1/4" thick or see Option -79
- Aluminum 27" hanger bars with adjustable mounting brackets (2) supplied.

UL, C-UL (Canada) Listings
- Wet, damp or dry locations, covered ceilings
- Type IC: for direct contact with insulation

IEC & FCC Compliance
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete fixture, must be installed with all SmartLED™ components

Options and Ordering Configuration

(Example: MRS-06465-2500L-30K-WA)

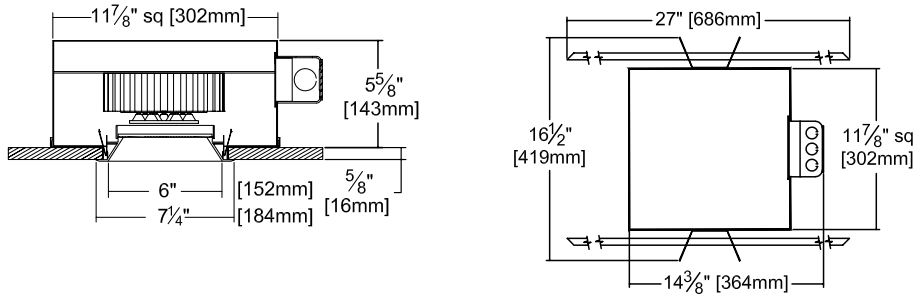Made in the USA — *BABAA Compliant* | BioGard™ — *See Option -BGT* | FC FCC Part 15 Certified | c(UL)us UL Listed Wet, Damp, Dry

Must Specify		Optional		
Model	Lumens	CCT & CRI	Trim & Lens Options	Other Options
MRS-06465				
	-2500L	**(Blank):** 35K, 80+ CRI	**(Blank):** White aluminum smooth self-flanged trim with lens above	**(Blank):** None
		80+ CRI		
		-27K: 2700°K	**Trim Finishes**	**Mounting**
		-30K: 3000°K	**-BGT:** BioGard anti-microbial white	**-79:** Extension collar; ceilings up to 2" thick
		-35K: 3500°K	**-BKBG:** BioGard anti-microbial black	**Other Options**
		-41K: 4000°K	**-94:** Custom color; consult factory	**-99:** Special modification; consult factory
		-50K: 5000°K	**-94BG:** BioGard anti-microbial custom color finish	
		90+ CRI	**Other Trim Features**	
		-27K-HC: 2700°K	**-32:** White trim extender, specify OD	
		-30K-HC: 3000°K	**-45:** Gasket between trim flange and ceiling	
		-35K-HC: 3500°K	**-46:** Gasket between trim and lens	
		-41K-HC: 4000°K	**Lens Options**	
		-50K-HC: 5000°K	**-21:** White translucent flat poly diffuser instead	
			-23: White Frosted microprismatic lens instead	
			-WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	

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Dimensions

11⅞" sq [302mm]

5⅝" [143mm]

6" [152mm]
7¼" [184mm]
⅝" [16mm]

27" [686mm]

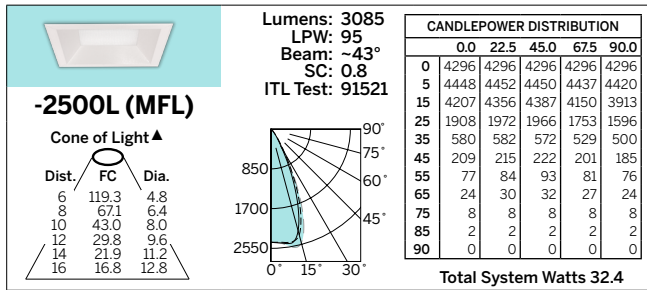16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

Ceiling Cut-out
6¾" Sq.

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Photometry from I.T.L., Boulder, CO

▲ **Cone of Light Key**
Dia. (in ft.) shown is where FC value is half the FC at nadir.

Dist. Distance (Ft.) from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

Lumens: 3085
LPW: 95
Beam: ~43°
SC: 0.8
ITL Test: 91521

-2500L (MFL)

Cone of Light ▲

Dist.	FC	Dia.
6	119.3	4.8
8	67.1	6.4
10	43.0	8.0
12	29.8	9.6
14	21.9	11.2
16	16.8	12.8

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4296	4296	4296	4296	4296
5	4448	4452	4450	4437	4420
15	4207	4356	4387	4150	3913
25	1908	1972	1966	1753	1596
35	580	582	572	529	500
45	209	215	222	201	185
55	77	84	93	81	76
65	24	30	32	27	24
75	8	8	8	8	8
85	2	2	2	2	2
90	0	0	0	0	0
Total System Watts 32.4					

*LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

SmartLED™ MRI Driver Modules

Fully Digital Controlled Power Source for LED Luminaires

Mounted in Kirlin's **MRI-CABNT**

Drivers wired in series

Driver Module	Maximum Capacity	Fixture Load Example
DVR-1400A	Qty 1: 2500L Luminaire	• Qty 1: MRS-06465-2500L
DVR-1400B	Up to Qty 2: 2500L Luminaire	• Qty 2: MRS-06465-2500L • Qty 1: MRS-06465-2500L and Qty 1: MRR-04416-2500L

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