

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

8" Sealed & Gasketed Downlight

Hybrid MRI and Intraoperative MRI Applications

LM-80 Qualified • LM-79 Certified Photometry

Specifications

Delivered System Performance

- Lumens: **-2500L** (35W); 2500 nominal lumens
- Distribution: MFL standard; optional: -NFL
- 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

- White aluminum self-flanged trim
- Regressed tempered prismatic spread lens

IP65 Sealed and Gasketed

- Liquid silicone seal between trim and lens
- Closed cell housing flange gasketing seals trim to housing,
- Closed cell trim flange gasketing seals flange to ceiling,
- Closed cell gasketing on bottom pan seals housing to ceiling
- O-rings seal stainless steel fasteners to trim

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

MRR-08428



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 1-1/8" thick
- 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

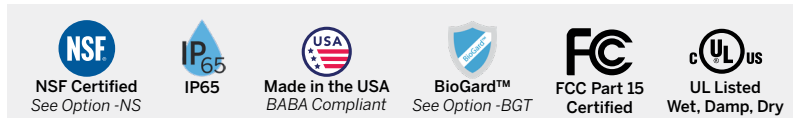
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

- Complete fixture, must be installed with all SmartLED™ components

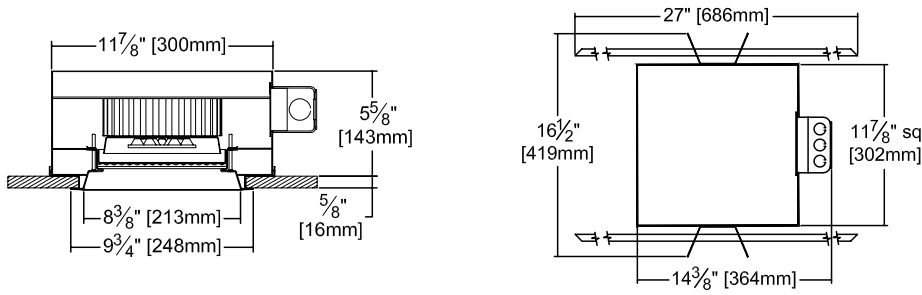
Options and Ordering Configuration

(Example: MRR-08428-2500L-30K-NFL)



Must Specify		Optional			
Model	Lumens	CCT & CRI	Beam	Trim & Lens Options	Other Options
MRR-08428	-2500L	(Blank): 35K, 80+ CRI	(Blank): MFL	(Blank): White aluminum self-flanged downlight cone with lens above	(Blank): None
		80+ CRI	-NFL	Trim Finishes	Other Options
		-27K: 2700°K	-MFL	-BGT: BioGard anti-microbial white	-99: Special modification; consult factory
		-30K: 3000°K		-BKBG: BioGard anti-microbial black	
		-35K: 3500°K		-94: Custom color; consult factory	
		-41K: 4000°K		-94BG: BioGard anti-microbial custom color finish	
		-50K: 5000°K		Other Trim Features	
		90+ CRI		-NS: NSF approved fixture	
		-27K-HC: 2700°K		Lens Options	
		-30K-HC: 3000°K		-WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	
		-35K-HC: 3500°K			
		-41K-HC: 4000°K			
		-50K-HC: 5000°K			

Dimensions



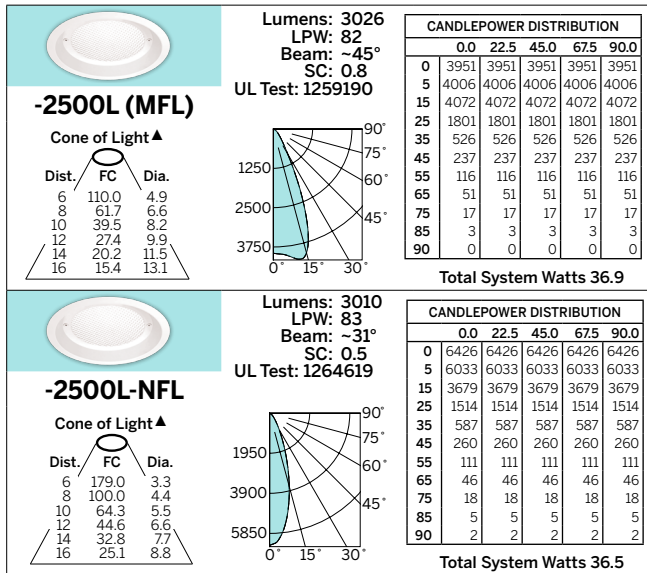
Ceiling Cut-out
 9 1/4" Dia.

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Photometry from UL Verification Services, Allentown, PA

▲ **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



*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: MRR-08428-2500L
DVR-1400B	Up to Qty 2: 2500L Luminaire	• Qty 2: MRR-08428-2500L • Qty 1: MRR-08428-2500L and Qty 1: MRR-06420-2500L

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR YEARS FROM DATE OF PURCHASE. INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within the years of original shipment. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is applied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.