

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

Surface 12" Downlight • 4" Shallow Depth

Up to 60,000 Hour Rated Life
LM-80 Qualified • LM-79 Certified Photometry

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

- White flat seamless aluminum, one piece self-flanged
- Optional colors and finishes available
- Tempered prismatic spread distribution lens

Aluminum Housing

- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- No visible cylinder hardware
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Lightweight: minimizes ceiling load

Outlet Box (Aluminum)

- UL listed J-box; prewired with ½" knockouts

MSR-12440



Installation & Hardware

- Requires minimum 18 AWG twisted pair shielded wire from SmartLED™ MRI Lighting System to fixtures
- Center point mounting for snug fit to ceiling
- Mounting hardware furnished

UL, C-UL (Canada) Listings

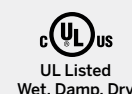
- Wet, damp or dry locations, covered ceilings

IEC & FCC Compliance

- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

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

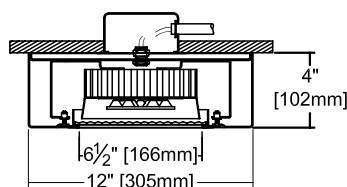


Options and Ordering Configuration

(Example: MSR-12440-2500L-30K-46)

Must Specify		Optional		
Model	Lumens	CCT & CRI	Trim & Lens Options	Other Options
MSR-12440				
	-2500L	(Blank): 35K, 80+ CRI	(Blank): White flat seamless aluminum one-piece housing with prismatic lens	(Blank): None
		80+ CRI	Trim Finishes	Other Options
		-27K: 2700°K	-35: Silver (natural aluminum) acrylic enamel	-99: Special modification; consult factory
		-30K: 3000°K	-38: Black acrylic enamel	
		-35K: 3500°K	-BGT: BioGard anti-microbial white	
		-41K: 4000°K	-BKBG: BioGard anti-microbial black	
		-50K: 5000°K	-94: Custom color; consult factory	
		90+ CRI	-94BG: BioGard anti-microbial custom color finish	
		-27K-HC: 2700°K	Other Trim Features	
		-30K-HC: 3000°K	-46: Gasket between trim and lens	
		-35K-HC: 3500°K	Lens Options	
		-41K-HC: 4000°K	-WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	
		-50K-HC: 5000°K		

Dimensions



Photometry - Installed Complete Fixture

LM-79 IES Certified Photometry from Independent Lab

Photometry from UL Verification Services, Allentown, PA

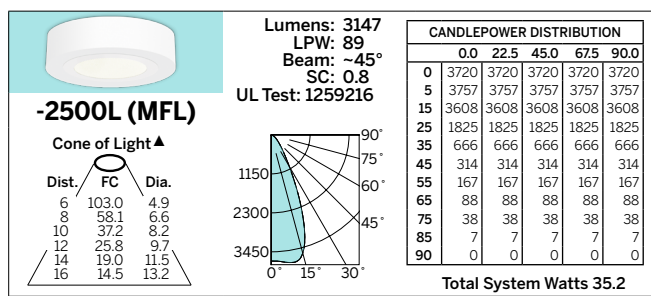
▲ Cone of Light Key

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: MSR-12440-2500L
DVR-1400B	Up to Qty 2: 2500L Luminaire	• Qty 2: MSR-12440-2500L • Qty 1: MSR-12440-2500L and Qty 1: MRR-04414-2500L