

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

MSR-12440



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

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

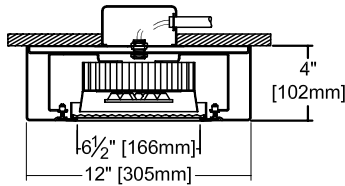
Options and Ordering Configuration

(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

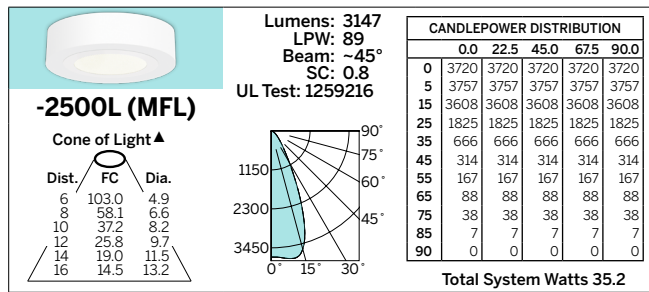


Photometry - Installed Complete Fixture

LM-79 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: 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

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, USE, MANUFACTURER AT HIS OPTION WILL REPLACE OR REPAIR SUCH FIXTURE OR RETURN THE PURCHASE PRICE ON PRESENTATION OF PROOF OF PURCHASE AND DEFECTIVE FIXTURE AT THE OFFICE 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.

SmartLED MRI
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