

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

Shallow Lensed 4" Downlight

Up to 90,000 Hour Life • Type IC

LM-80 Qualified • LM-79 Certified Photometry

MRS-04245



Specifications

Delivered System Performance

- Lumens: **-1500L** (20W); 1500 nominal lumens
- Distribution: MFL standard; optional: -NFL
- Color temperature: 3500°K standard; optional: -27K, -30K, -41K, or -50K
- CRI: 80+ standard; optional: -HC (90+)
- 90,000 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
- 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 frame

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

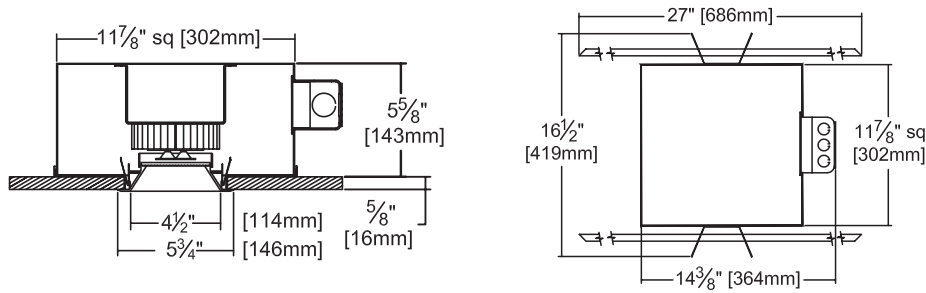
Options and Ordering Configuration

(Example: MRS-04245-1500L-30K-NFL)



Must Specify		Optional									
Model	Lumens	CCT & CRI	Beam	Trim & Lens Options	Other Options						
MRS-04245	-1500L	(Blank): 35K, 80+ CRI 80+ CRI -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4100°K -50K: 5000°K 90+ CRI -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4100°K -50K-HC: 5000°K	(Blank): MFL -NFL -MFL	(Blank): White aluminum smooth self-flanged trim with lens above Trim Finishes -94: Custom color; consult factory -BGT: BioGard™ anti-microbial white Other Trim Features -32: White trim extender, specify OD -45: Gasket between trim flange and ceiling -46: Gasket between trim and lens Lens Options -21: White translucent flat poly diffuser instead -23: White Frosted microprismatic lens instead -WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	(Blank): None Mounting -79: Extension collar; ceilings up to 2" thick Other Options -99: Special modification; consult factory						
*See note next page											
<table border="1"> <thead> <tr> <th colspan="2">Projected L70** for Kirlin Luminaires</th> </tr> </thead> <tbody> <tr> <td>In Open Plenum</td> <td>90,000 hours</td> </tr> <tr> <td>In Insulation (Type IC)</td> <td>60,000 hours</td> </tr> </tbody> </table>						Projected L70** for Kirlin Luminaires		In Open Plenum	90,000 hours	In Insulation (Type IC)	60,000 hours
Projected L70** for Kirlin Luminaires											
In Open Plenum	90,000 hours										
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**Hours at 70% lumen maintenance											

Dimensions



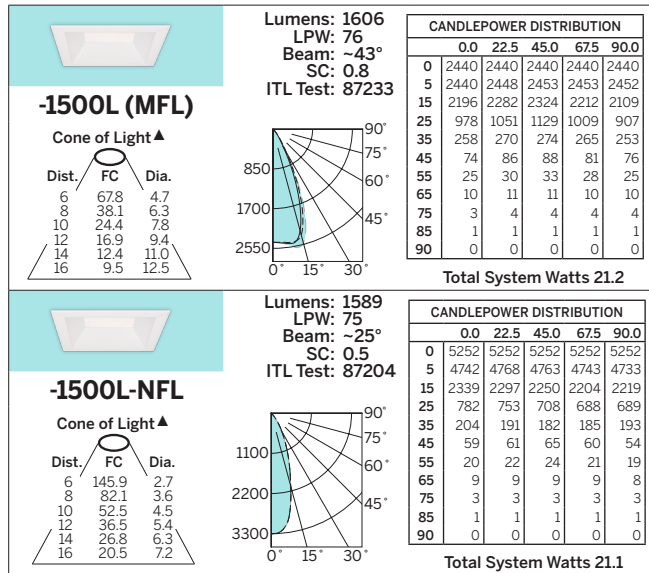
Ceiling Cut-out
5 1/4" Sq.

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

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

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



Driver Module	Maximum Capacity	Fixture Load Examples
DVR-1400A	Qty 2: 1500L Luminaires	<ul style="list-style-type: none"> Qty 1: MRS-04245-1500L Qty 2: MRS-04245-1500L Qty 1: MRS-04245-1500L and Qty 1: MRS-06247-1500L

LIMITED WARRANTY: KIRLIN LIGHTING FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, MAINTENANCE, REPAIR, REPLACEMENT OF PARTS, OR RETURN OF THE FIXTURE TO THE MANUFACTURER FOR ANY REASON IS THE RESPONSIBILITY OF THE BUYER. THE WARRANTY IS VOID IF THE BUYER HAS NOT MAINTAINED THE FIXTURE IN ACCORDANCE WITH THE INSTALLATION AND MAINTENANCE INSTRUCTIONS. THE WARRANTY DOES NOT COVER DAMAGE TO THE FIXTURE CAUSED BY IMPROPER INSTALLATION, REPAIR, OR MAINTENANCE. THE WARRANTY IS VOID IF THE BUYER HAS NOT MAINTAINED THE FIXTURE IN ACCORDANCE WITH THE INSTALLATION AND MAINTENANCE INSTRUCTIONS. THE WARRANTY DOES NOT COVER DAMAGE TO THE FIXTURE CAUSED BY IMPROPER INSTALLATION, REPAIR, OR MAINTENANCE. THE WARRANTY IS VOID IF THE BUYER HAS NOT MAINTAINED THE FIXTURE IN ACCORDANCE WITH THE INSTALLATION AND MAINTENANCE INSTRUCTIONS.