

CATALOG	#

VOLTAGE

# SmartLED<sup>™</sup> MRI Lighting System

4" Open Appearance Adjustable

Up to 90,000 Hour Life • Type IC LM-80 Qualified • LM-79 Certified Photometry

# **Specifications**

# **Delivered System Performance**

- Lumens: -1500L (20W); 1500 nominal lumens
- Distribution: NFL standard; optional: -SPT, or -MFL
- 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

## **Center Beam Optics**

- Tilts up to 45°
- Rotates full 365° and locks in place
- Accommodates sloped ceilings up to 45°

# SmartLED<sup>™</sup> 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

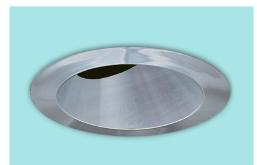
## Trim and Lens Assembly

- Clear specular aluminum self-flanged, low glare cone with lens above Optional colors and finishes available

## 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



MRR-04220

## 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<sup>™</sup> components



# **Options and Ordering Configuration**

# (Example: MRR-04220-1500L-30K-MFL)

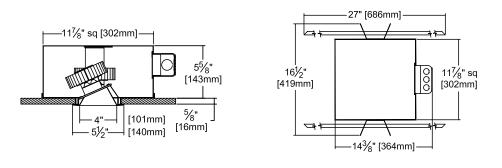
Must Specify		Optional				
Model	Lumens	CCT & CRI	Beam	Trim & Lens Options	Other Options	
MRR-04220						
	-1500L	(Blank): 35K, 80+ CRI	(Blank): NFL	(Blank): Clear specular aluminum self-flanged cone with lens above	(Blank): None	
		80+ CRI	-SPT			
		- <b>27K:</b> 2700°K	-NFL	Trim Finishes	Other Options	
		- <b>30K:</b> 3000°K	-MFL	-30T: All white acrylic enameled cone	-99: Special modification; consult factory	
		- <b>35K:</b> 3500°K		-30F: White acrylic enameled cone flange -70T: SofTex™ semi-specular clear self-flanged		
		- <b>41K:</b> 4000°K		cone		
		-50K: 5000°K		-BGT: BioGard anti-microbial white		
		90+ CRI		-BKBG: BioGard anti-microbial black		
		- <b>27K-HC:</b> 2700°K		-94: Custom color; consult factory		
		- <b>30K-HC:</b> 3000°K		-94BG: BioGard anti-microbial custom color finish		
		- <b>35K-HC:</b> 3500°K		Other Trim Features		
		- <b>41K-HC:</b> 4000°K		-32: White trim extender, specify OD		
*See note next page		- <b>50K-HC:</b> 5000°K		-45: Gasket between trim flange and ceiling		
Projected L70**			Lens Options			
for Kirlin Luminaires			-WA: White acrylic (flat) diffuser instead; will			
In Open Plenum 90,000 hours			produce wide flood distribution			
In Insulation (Type IC) 60,000 hours **Hours at 70% lumen maintenance						



LIMITED WARRANTY: CATALOGED KIRLIN FIXTU The purchase price on presentation of proof of purchase and supplied to the buyer in place of all other warrantice, synesse written authorization from the manufacturer will render the w

URES ARE WARRANTIED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLED TO N.E.C., detective lixture at the offices of manufacturer within five years of orginal shoment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be live for any other ead or implied. Seler does not warrant as to merchantability of fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnomial use, warranty void.

# **Dimensions**

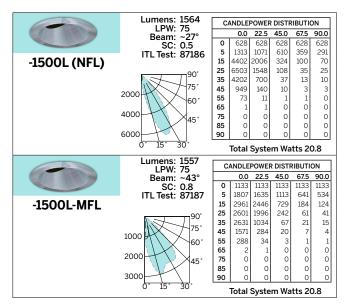


**Ceiling Cut-out** 

5" Dia.

# **Photometry - Installed Complete Fixture**

LM-79 IESNA Certified Photometry from Independent Lab



Lumens: 1566 LPW: 75 Beam: ~24° SC: 0.4 ITL Test: 87185 CANDLEPOWER DISTRIBUTION 22.5 45.0 67.5 90.0 0.0 510 0 510 510 5 15 1084 862 489 289 242 -1500L-SPT 4525 1774 244 85 62 25 35 45 55 65 75 85 90 7693 1397 86 31 23 4626 587 32 12 9 845 117 2300 57 10 0 0 0 0 0 0 460 0 0 0 0 0 0 0 C 6900 Total System Watts 20.8

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

# SmartLED<sup>™</sup> 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 Examples
DVR-1400A	Up to Qty 2: 1500L Luminaires	<ul> <li>Qty 1: MRR-04220-1500L</li> <li>Qty 2: MRR-04220-1500L</li> <li>Qty 1: MRR-04200-1500L and Qty 1: MRR-04220-1500L</li> </ul>

air such fixture or refund person. This warranty is the fixture without prior SmartLED MR OCTOBER 2024

,, IN NORMAL USE. Manu damages, direct or indirect, s abuse of the fixture, imprope

ope sustained or : r installation

HEALTHCARE LIGHTING

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

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