KIRLIN HEALTHCARE LIGHTING

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

Classic "K" Lens 8" Downlight

Up to 60,000 Hour Rated Life

LM-80 Qualified • LM-79 Certified Photometry

MRS-08470

Specifications

Delivered System Performance
- Lumens**: -2500L** (35W); 2500 nominal lumens
- Distribution: WFL 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
- 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
- Shock-resisting, UV absorbing prismatic convex widespread Kirlin lens
- Rustfree polished nickel stainless door (304-L) and captive thumb screw and concealed hinges
- Beveled cast aluminum frame tooled to ensure close fit with door; white acrylic finish

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

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

IEC & FCC Compliance
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete fixture, must be installed with all SmartLED™ components

Made in the USA
BABAA Compliant

BioGard™
See Option -BGT

FCC Part 15 Certified

UL Listed
Wet, Damp, Dry

Options and Ordering Configuration

(Example: MRS-08470-2500L-30K-45)

Must Specify		Optional		
Model	**Lumens**	**CCT & CRI**	**Trim & Lens Options**	**Other Options**
MRS-08470				
	-2500L	**(Blank):** 35K, 80+ CRI	**(Blank):** White aluminum smooth self-flanged trim with lens above	**(Blank):** None
		80+ CRI	**Trim Finishes**	**Other Options**
		-27K: 2700°K	**-94:** Custom color; consult factory	**-99:** Special modification; consult factory
		-30K: 3000°K	**-BGT:** BioGard™ anti-microbial white	
		-35K: 3500°K	**Other Trim Features**	
		-41K: 4100°K	**-13:** Vandal resistant tempered prismatic spread lens above 1/8" flat polycarbonate; Also see Option -26	
		-50K: 5000°K	**-26:** White trim extender, specify OD	
		90+ CRI	**-32:** White trim extender, specify OD	
		-27K-HC: 2700°K	**-45:** Gasket between trim flange and ceiling	
		-30K-HC: 3000°K	**-46:** Gasket between trim and lens	
		-35K-HC: 3500°K	**Lens Options**	
		-41K-HC: 4100°K	**-15:** Prismatic tempered glass lens instead	
		-50K-HC: 5000°K	**-17:** 0.187" prismatic high strength acrylic lens instead; Also see Option -26	
			-WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

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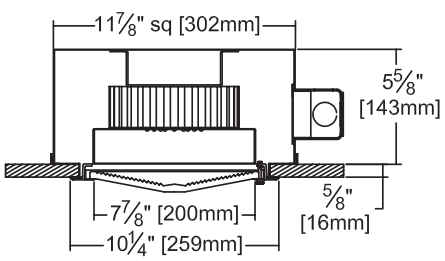
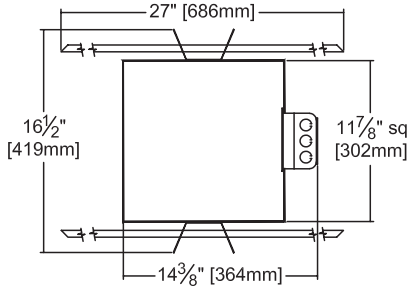
KIRLIN HEALTHCARE LIGHTING

Dimensions





Ceiling Cut-out
9¼" Dia.

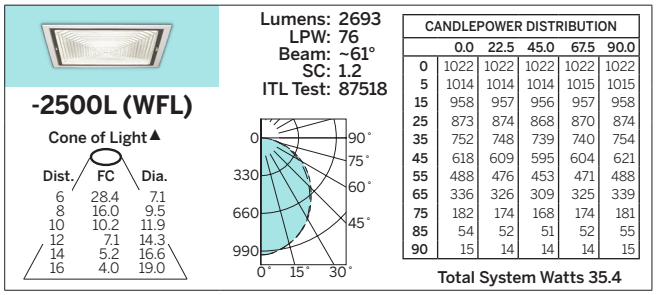
Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

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

▲ 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



-2500L (WFL)

Cone of Light▲

Dist.	FC	Dia.
6	28.4	7.1
8	16.0	9.5
10	10.2	11.9
12	7.1	14.3
14	5.2	16.6
16	4.0	19.0

Lumens: 2693
LPW: 76
Beam: ~61°
SC: 1.2
ITL Test: 87518

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1022	1022	1022	1022	1022
5	1014	1014	1014	1015	1015
15	958	957	956	957	958
25	873	874	868	870	874
35	752	748	739	740	754
45	618	609	595	604	621
55	488	476	453	471	488
65	336	326	309	325	339
75	182	174	168	174	181
85	54	52	51	52	55
90	15	14	14	14	15

Total System Watts 35.4

*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 Example
DVR-1400A	Qty 1: 2500L Luminaire	• Qty 1: MRS-08470-2500L

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTIED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., IN NORMAL USE. Manufacturer at his 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 five 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 supplied 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.

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