

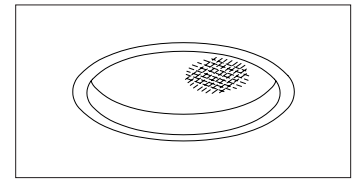
CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

7" LED 2450 LUMENS 38 SYSTEM WATTS MRR-07381

SmartLED™ MRI Lighting Systems

Regressed Lensed Downlight • Specular Trim

60,000+ Hour Life (L70) • 2450 Lumens • Type IC
LM-80 Qualified • LM-79 Certified Photometry



Use With:

- SmartSupply™ LPS-1220A
- SmartFilter™ RFI-3100D

Specifications

LED Light Engine*

- 38 watt LED array. 3500°K standard (or see Option -41K).
- 2450* lumens, 65 lumens per watt (total system).
- 81 CRI, 60,000+ hour life (L70).**
- Fully sustainable: removable for servicing.

Thermal Management System

- All-aluminum proprietary heat sink, components and housing maximize cool operation and long life while minimizing maintenance.

SmartSupply™ (Remote Power Supply)

Required - Order Separately

- Digitally controlled. Drives up to 6-38W LED fixtures, with 6 configurable channels.
- 100-1% full range dimming in up to 3 zones.
- LPS-1220A: Compatible with 0-10V DC dimming controls. See vendor qualified list in the owner's manual.
- Suitable for dry, non-plenum locations only with ambient temperature range of -20°C (-4°F) to 40°C (104°F). 115-277V, 50-60 Hz.
- For more information, see specification sheet for LPS-1220A.

SmartFilter™ (RFI / EMI Filter)

Required - Order Separately

- Protects up to 3 SmartSupply channels.
- For more information see specification sheet for RFI-3100D.

SmartPower™ Battery Backup

- EMI-21220 for emergency power.
- See specification sheet; order separately.

Trim Assembly

- Seamless tapered specular clear aluminum self-flanged trim with high efficiency reflector above.
- Regressed tempered prismatic C#73 lens.

Acrylic Enamelled Aluminum Housing

- Rustproof and corrosion resistant; Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Fully sustainable: Entire luminaire, including LED light engine, easily visible and serviced through aperture. Built-in plaster flange.
- Air Tight design available, see Option -AT.

Outlet Box

- Prewired. 100% aluminum. UL listed.
- Accessible. 1/2" knockouts.

Use of SmartSupply™ and SmartFilter™ REQUIRED or Kirlin warranty is null and void

Installation

- Requires minimum 18 AWG twisted pair shielded wire from SmartSupply™ 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

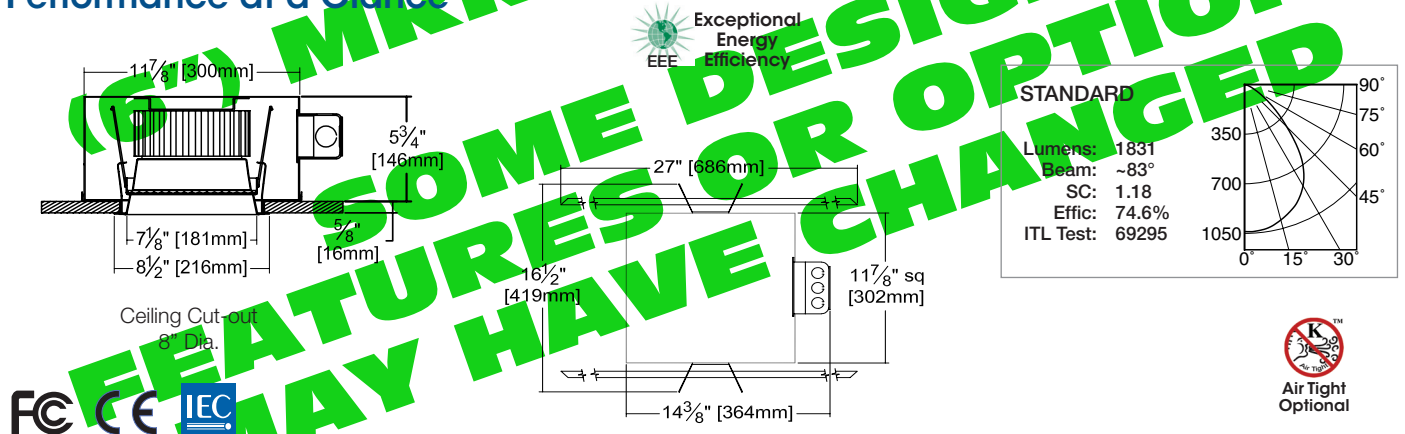
- Wet, damp, dry locations, covered ceilings.
- Type IC: for direct contact with insulation.

CE & FCC Compliance

- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

5 Year FIVE YEAR Limited Warranty
• Complete standard fixture

Performance at a Glance



THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

* See note next page
** See note next page

SmartLED™ MRI Lighting Systems
Luminaires • SmartSupply • SmartFilter

MAX. LUMENS 2450
MAX. SYSTEM WATTS 38

CATALOG NUMBER MRR-07381

Detailed Photometry - Installed Fixture

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

Photometric testing done in accordance with IESNA LM-79-08

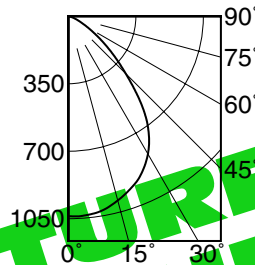
STANDARD

Lumens: 1831
Beam: ~83°
SC: 1.18
Effic: 74.6%
ITL Test: 69295



Cone of Light ▲

Dist.	FC	Dia.
6	28.8	7.1
8	16.2	9.5
10	10.4	11.8
12	7.2	14.2
14	5.3	16.6
16	4.1	18.9



CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1037	1037	1037	1037	1037
5	1036	1036	1036	1036	1036
15	989	989	989	989	989
25	898	898	898	898	898
35	724	724	724	724	724
45	421	421	421	421	421
55	192	192	192	192	192
65	67	67	67	67	67
75	18	18	18	18	18
85	0	0	0	0	0
90	0	0	0	0	0

THIS FIXTURE IS NO LONGER AVAILABLE FOR ALTERNATIVE PLEASE SEE MRR-06426 (42W) SOME DESIGN OR OPTIONS MAY HAVE CHANGED

LM-80 Qualified • LM-79 Certified Photometry

* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL).
** LED Operating Characteristics: 60,000 hours at 70% lumen maintenance. (L70)

▲ Cone of Light Key
FC Distance from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC
Dia. (in ft.) shown is where FC value is half the FC at nadir.

Options

- | | | |
|--|--|---|
| <p>Color Temperature (CCT)
-41K Color temperature 4100K. Consult factory.</p> | <p>Trims
-31 White acrylic enameled trim flange (only).
-32 White oversize trim ring. Specify O.D.
-45 Gasket between trim flange and ceiling.
-46 Gasket between trim and lens.
-94 Custom color/finish. Specify. Consult factory.</p> | <p>Other
-79 Extension collar for up to 2" thick ceilings.
-99 Special modification. Consult factory.
-AT Air tight medical grade sealed housing with Type IC. Meets ASTM E283 restricted airflow of 2 CFM maximum..</p> |
|--|--|---|

3 Steps To "Artifact Free" Imaging

1. Use complete Kirlin SmartLED™ MRI system: luminaires, filters, drivers
2. Use a minimum #18 AWG twisted, shielded pair wire
3. Use a 0-10V wall box dimmer that is approved for use with SmartSupply™ (consult Owner's Manual); wall dimmers must be located outside of room shield and must not be filtered through RFI-3100D SmartFilter™

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____
TYPE _____
WATTAGE _____ VOLTAGE _____
CATALOG NUMBER _____

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer of the 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 three 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 subject 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 the 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
REV2 JUNE 2013