

CATALOG # JOB NAME WATTAGE **VOLTAGE**

LED 1300 LUMEN SERIES **20 WATT** MRR-06216

SmartLED™ MRI Lighting Systems

Regressed Lensed Downlight • White Trim Up to 90,000 Hour Life (L70) • Type IC

LM-80 Qualified • LM-79 Certified Photometry



Use With:

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

Specifications

Delivered System Performance*

- Standard MFL distribution: 1348 delivered lumens / 64 LPW / 0.8 SC.
- -NFL: 1348 lumens / 64 LPW / 0.4 SC.
- -WFL: 1249 lumens / 60 LPW / 1.2 SC.
- 20 watt LED array. 3500°K standard (or see Options -27K, -30K or -41K).
- Up to 85 CRI and 90,000 hour life (L70**). For 90+ CRI, see Option -HC.
- · Fully sustainable: removable for servicing.

Thermal Management System

 All aluminum proprietary heat sink, components and housing maximize operation and long life while maintenance

SmartSu er Supply

- ontrolled. Drives up to luminaires, with 6 configurable ch Maximum 100 ft. cable length from SmartSupply $^{\text{TM}}$ to fixture.
- 100-1% full range dimming ir
- LPS-1220A: Compatible with dimming controls. See vendor the Owner's Manual (760412-0
- Suitable for dry, non-plenum locations only with ambient temperature range of -20°C

(-4°F) to 40°C (104°F). 115 - 277V isolated circuit only; maximum input voltage 290V; 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 for RFI-3100D.

SmartPower™ Batte

- only) anti-microbial Kirlin ^M finish, see Option
- Regressed tempered prism

Н Acrylic Eng Alumi

- % salt spray test.
- า 1หร restricted plenur operation: Extends life
- nable car e imiliaire, including is modular, easily visible, serviced aperture. Built-in plaster flange.
 - Air Tight design available, see Option -AT.

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

Box

red. 100% aluminum. U.L. listed. knockouts. Accessib¹

- mnum 18 AWG twisted pair delded wire from SmartSupply™ to fixtures.
- to 11/4" thick or see Recesses in ceiling
- s with adjustable unting applied.

ada) Listings

- ા, damp, dry locations, covered ceilings.
- t contact with insulation.

pliance

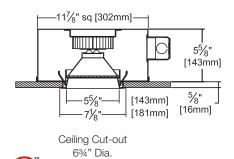
s IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.

FCC Part 15 certified for EMI/RFI emissions.

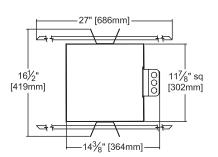
FIVE YEAR Limited Warranty

Complete standard fixture.

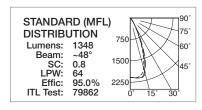
Performance at a Glance



L70** for Kirlin Luminaires				
In Open Plenum	90,000 hours			
In Insulation (Type IC)	60,000 hours			
**Hours at 70% lumen maintenance				







Complete photometry for standard and optional distributions on next page





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

SmartLED™ MRI Lighting Systems Luminaires • SmartSupply • SmartFilter

CATALOG NUMBER

MRR-06216





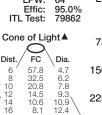
Detailed Photometry - Installed Fixture

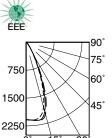
Photometric testing done in accordance with IESNA LM-79-08

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

STANDARD (MFL)







Total System Watts 21.1

CANDLEPOWER DISTRIBUTION								
	0.0	22.5	45.0	67.5	90.0			
0	2081	2081	2081	2081	2081			
5	2100	2102	2107	2107	2102			
10	1802	1882	2003	1979	1927			
15	750	822	907	854	803			
20	200	213	212	214	208			
25	57	58	54	58	58			
30	24	24	24	24	24			
35	15	15	15	15	15			
40	7	6	7	7	7			
45	1	1	1	2	1			
90	0	0	0	0	0			

Option -NFL



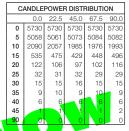
1950

3900





60

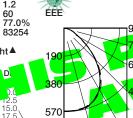


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Option -WFL

10.6





Total System Watts 20.8

	CANDLEPOWER DISTRIBUTION						N
		0.0	22.5	45.0	67.5	90.0	
	0	56 6	56 6	566	566	566	
V	5	5 66	565	565	565	5 <mark>66</mark>	
١	10	563	559	557	5 59	560	h
	15	520	520	522	5 18	515	Г
	20	429	433	441	432	430	7
	2 5	301	308	311	304	302	Ш
	3 0	162	164	169	165	166	l I
	35	84	85	85	84	84	Ш
1	40	43	43	43	43	42	l I
	45	10	10,	10	10	9	Ц
	90	0	0	0	0	0	I

LM-80 Qualified • L

LED manufacturers maintain a tolera ower (electrical) measur photometrics are actual test data fro from 1418 lumen (20W) and 1622 lu

▲ Cone of Light Key (Dia. (in ft.) shown is where FC value is half the FC at nadir.)

Distance from fixture Footcandles at nadir (0° Dia. Circle of light at 50% of FC

Options

Color Temperature (CCT)

- -27K Color temperature 2700°K instead.
- -30K Color temperature 3000°K instead.
- -41K Color temperature 4100°K. Consult factory.
- -HC 90+ CRI instead. Use with Option -27K or -30K only. Reduces output by ~15%.

Optics

-NFL Narrow flood distribution. (0.4 SC) -WFL Wide flood distribution. (1.2 SC)

Trims

- -32 White oversize trim ring. Specify O.D.
- -45 Gasket between trim flange and ceiling.
- -46 Gasket between trim and lens.
- Custom color/finish. Specify. Consult factory.
- Anti-microbial Kirlin BioGard™ white (only) trim finish.

Other

- Extension collar for up to 2" thick ceilings.
- -99 Special modification. Consult factory.
- Air tight medical grade sealed housing with Type IC. Meets ASTM E283 restricted airflow of 2 CFM maximum.

3 Steps To "Artifact-Free" **Imaging**

- 1. Use complete Kirlin SmartLED™ MRI system: Luminaires, RFI-3100D SmartFilter™, LPS-1220A SmartSupply™
- 2. Use a minimum #18 AWG twisted, shielded pair wire
- 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 **CATALOG NUMBER** **VOLTAGE**

warranties, expressed or implied.