

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

20 WATT LED 1300 LUMEN SERIES

MRR-06215

SmartLED™ MRI Lighting Systems

Regress Lensed Downlight • Specular Trim Up to 90,000 Hour Life (L70) • Type IC LM-80 Qualified • LM-79 Certified Photometry

Specifications

Delivered System Performance*

- Standard MFL distribution: 1329 delivered lumens / 63 LPW / 0.8 SC
- -NFL: 1341 lumens / 63 LPW / 0.5 SC.
- -WFL: 1252 lumens / 60 LPW / 1.3 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 coo operation and long life ninimiz<mark>ina</mark>

SmartSupply™ (Remote Power Required - Order Separately

- Digitally controlled. Drives up to 12-15W luminaires, with 6 configurable channels. Maximum 100 ft. cable length from SmartSupply™ to fixture.
- 100-1% full range dimming in up to 3
- LPS-1220A: Compatible with 0-10V DC dimming controls. See vendor qualified list in the Owner's Manual (760412-00-00).
- 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 channel
- For more information see spe for RFI-3100D.

SmartPower

- emergency power rim Assembly
- <mark>w brigh</mark>tness clear l<mark>minum self-fl</mark>anged trim.
- egressed tempered prisn

Acrylic Enameled Aluminum Hou

- Rustproof and corrosion resistant: Exercise the second resistant r 1000 hour ASTM 5% salt spray test. Shallow depth fits restricted plenums.
- Cool operation: Extends life of all co ully sustainable: Entire luminaire, including light engine, is modular easily visible, serviced through aperture. Built-in plaster flange. Tight design available, see Option -AT.

• Prewired. 100% aluminum. U.L. listed.

Use With:

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

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

Acces<mark>sible. 1</mark>/2" knockouts.

- minimum 18 AWG twisted pair shielded wire from SmartSupply™ to fixtures.
- <mark>eilings up</mark> to 1¼" thick or see
- nanger bars with adjustable Aluminum 2 ng brackets (2) supplied.

UL, C-UL (Canada) Listings

- · Wet, damp dry locations, covered ceilings.
- direct contact with insulation.

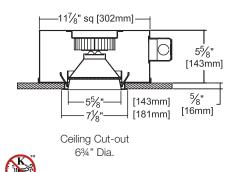
CE & FCC Compliance

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

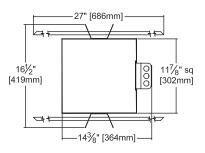
Limited Warranty

Complete standard fixture.

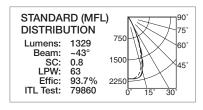
Performance at a Glance



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







Complete photometry for standard and optional distributions on next page



THE KIRLIN COMPANY

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*See note next page

SmartLED™ MRI Lighting Systems Luminaires • SmartSupply • SmartFilter

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Detailed Photometry - Installed Fixture

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

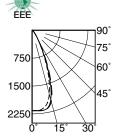
Photometry from I.T.L., Boulder, CO

STANDARD (MFL)









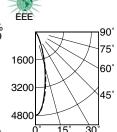
Total System Watts 21.2

_					
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2163	2163	2163	2163	2163
5	2163	2164	2167	2169	2177
10	1774	1869	1983	1960	1930
15	741	796	864	835	787
20	201	218	212	218	208
25	60	60	58	62	62
30	23	24	24	24	23
35	10	10	10	10	10
40	2	2	2	2	1
45	0	0	0	0	0
90	0	0	0	0	0

Option -NFL







Total System Watts 21.2

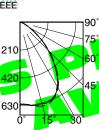
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4765	4765	4765	4765	4765
5	4342	4326	4305	4274	4273
10	2147	2102	2026	1986	1993
15	626	581	546	545	570
20	151	132	121	127	132
25	34	32	33	31	31
30	11	11	13	13	11
35	6	5	5	5	5
40	1	1	1	1	1
45	0	0	0	0	0
90	0	-0	0	D	0

Option -WFL









Total System Watts 20.8

	CANDLEPOWER DISTRIBUTION						
		0.0	22.5	45.0	67.5	90.0	
	0	618	618	618	618	618	
-	5	624	626	622	622	622	П
١	10	637	647	654	646	635	u
	15	619	618	620	615	612	N
	20	485	494	497	491	484	
	25	30 3	308	312	307	300	٧.
1	30	134	141	142	138	135	П
ı	35	45	46	46	46	46	
ı	40	10	10	10	10	10	Ш
ı	45	0	0	0	0	0	
	90	0	0	0	0	0	

LM-80 Qualified • LM-79 Certified Photometr

* LED manufacturers maintain a tolera photometrics are actual test data fro where photometry was from 1418 lumen (20W) and 162

▲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°) FC Circle of light at 50% of FC IMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., IN NORMAL USE, manufactures in provide by a report of purchase and deletive factor at the offices of manufacture within three years of original state provides are only pressor. It is a provided by a report of the purchase of the purchase

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. (0.5 SC)
- -WFL Wide flood distribution. (1.3 SC)

Trims

- White oversize trim ring. Specify O.D. -32
- -45 Gasket between trim flange and ceiling.
- -46 Gasket between trim and lens.
- Custom color/finish. Specify. Consult factory.

Other

- Extension collar for up to 2" thick ceilings.
- 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**