

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Lighting for Patient Spaces

Clean Room • 6" LED Downlight

White IP66 Rated Trim • Type IC • Wet Location
1% Dimming • WFL • 3 CCT • 3-Step Binning
Integrated Module • LM-80 Qualified • LM-79 Certified



MRR-06847-2000L
MRR-06847-1500L
MRR-06847-1100L



4" Lens Aperture



Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
- 2000L: 2000 nominal lumens (20W).
- 1500L: 1500 nominal lumens (15W).
- 1100L: 1100 nominal lumens (11W).
- Distribution: WFL.
- Color temperature: 3500°K standard.
- Optional: -30K or -41K.
- CRI: 80+. Exceptionally consistent color.
- 50,000 hour life (L70**).
- Fully sustainable: removable for servicing.

Thermal Management System

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

LED Power Supply - INTEGRAL

- 0-10V linear dimming standard. (100-1%)**
- 120-277V / 50-60Hz standard. Load insensitive.
- Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F).

Trim / Lens Assembly

- Smooth white seamless tapered aluminum self-flanged rigid cast trim.
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim.

- High strength prismatic acrylic above .125" clear flat polycarbonate lens. Also see -DA.
- Vandal and ligature resistant, see Option -25.

IP66 Sealed and Gasketed - Clean Room

- Silicone seal between trim and lens seals lens to trim.
- Closed cell gasketing on trim flange seals flange to ceiling.
- O-rings on stainless steel fasteners seal fasteners to trim.
- ISO 5 / Class 100 Sealed Clean Room rated.

Acrylic Enameled Aluminum Housing

- Air tight housing and junction box. Meets/ exceeds ASTM E283 restricted airflow (2 CFM max). CCEA Chicago Plenum Approved.
- ISO 5 / Class 100 Sealed Cleanroom rated.
- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Entire luminaire is modular, easily visible, serviced through aperture. Built-in plaster flange.

Outlet Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with ½" and ¾" knockouts.

Installation

- Recesses indoor/outdoor in covered locations.
- Accommodates ceilings up to 1-1/8" thick.
- 27" galvanized 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.
- Through-branch conductors (4 #12 AWG 90°C) for Type IC Listing.

IEC & 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.

MUST SPECIFY	OPTIONAL	Ordering Example:
Product Number	Options	
MRR-06847-2000L MRR-06847-1500L MRR-06847-1100L	See "Options" below	

Options

LED Power Supply

- EI REMOTE emergency inverter for 100% of rated lumens. Run time: 90+ minutes. 120 or 277V, 60Hz input only. Specify voltage. Not for use with Option -FS.

Color (CCT)

- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.

Trim

- 25 Vandal resistant trim, hardware and lensing. Provides ligature and vandal resistance.
- 35T Silver enameled trim (complete).
- 94 Custom color/finish. Specify. (non BioGard™) Consult factory.
- BN Brushed nickel cast trim instead. (non BioGard™)
- CF Custom color filter (Rosco). Specify.
- DA Diffuse acrylic lens above poly instead of prismatic acrylic. -WFL only.

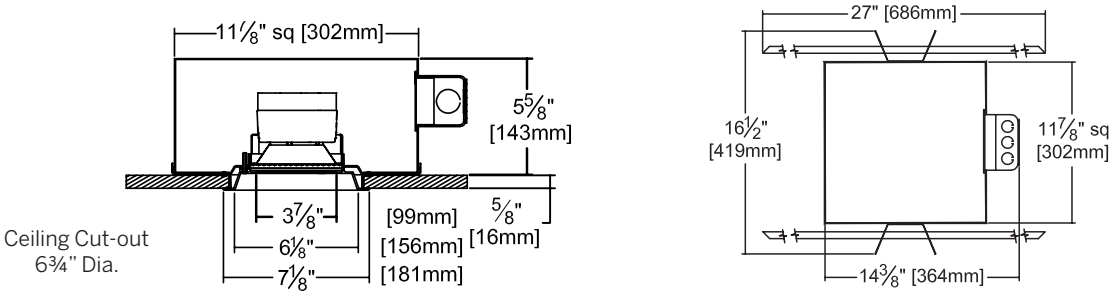
Other

- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.

Projected L70** for Kirlin Luminaires	
In Open Plenum	50,000 hours
In Insulation (Type IC)	50,000 hours

**Hours at 70% lumen maintenance

Dimensions

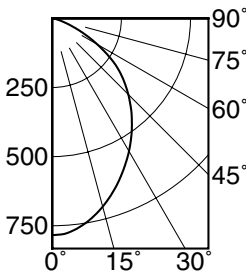
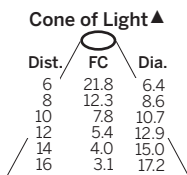


Detailed Photometry - Installed Fixture
Photometric testing done in accordance with IESNA LM-79

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

-2000L STANDARD (WFL)

Lumens: 1555
Beam: ~57°
SC: 1.1
LPW: 77
Efficiency: 77.8%
ITL Test: 90896



Total System Watts 20.3

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	784	784	784	784	784
5	774	774	774	774	774
15	705	705	705	705	705
25	607	607	607	607	607
35	501	501	501	501	501
45	389	389	389	389	389
55	265	265	265	265	265
65	118	118	118	118	118
75	28	28	28	28	28
85	6	6	6	6	6
90	0	0	0	0	0

LUMEN SERIES	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
-1500L	0.75	0.75	1.00
-1100L	0.55	0.55	1.00

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) where photometry was measured from 2000 lumen (-2000L) light engines (within the established tolerance).

▲ 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

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IN NORMAL USE. Manufacturer at 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 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.