

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Lighting for Patient Spaces

OR/Clean Room 7" LED Exam Light

Up to 90,000 Hour Life • Type IC • Antimicrobial Trim
LM-80 Qualified • LM-79 Certified Photometry

MRR-07550



Specifications

Delivered System Performance*

- Lumen Series: **Must Specify**
 - 2000L (25W)
 - 1500L (15W)
- Distribution: NFL standard; optional: -MFL
- Color temperature: 3500°K standard; optional: -27K, -30K or -41K
- CRI: 80+ standard; optional: -HC (90+)
- 90,000 hour life (L70**)
- Fully sustainable: removable for servicing

Thermal Management System

- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL

- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR dimming standard (100-10%)
- Voltage Options: **Must Specify**
 - 120: -120V (50-60Hz); load insensitive
 - 277: -277V (50-60Hz); load insensitive

Trim and Lens Assembly

- Rustproof 100% aluminum grooveless, smooth, self-flanged trim

- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim
- Regressed tempered microprismatic glass lens

IP65 Sealed & Gasketed Trim

- Liquid silicone seals between trim and lens
- O-rings seal stainless fasteners to trim
- Meets ASTM E283 restricted airflow of 2CFM

Acrylic Enameled Aluminum Housing

- Rustproof: 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
- Air tight housing and junction box; meets/exceeds ASTM E283 restricted airflow (2 CFM maximum); CCEA approved

Outlet Box (Galvanized)

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

Installation & Hardware

- Indoor/outdoor in ceilings up to 1½" thick
- Compatible with fire rated enclosures (by others)
- 27" galvanized hanger bars & adjusting 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)

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

Options and Ordering Configuration

(Example: MRR-07550-2000L-120-30K-MFL)

Made in the USA

NSF
See Option -NS

ISO 5/Class 100
CLEANROOM

BioGard™

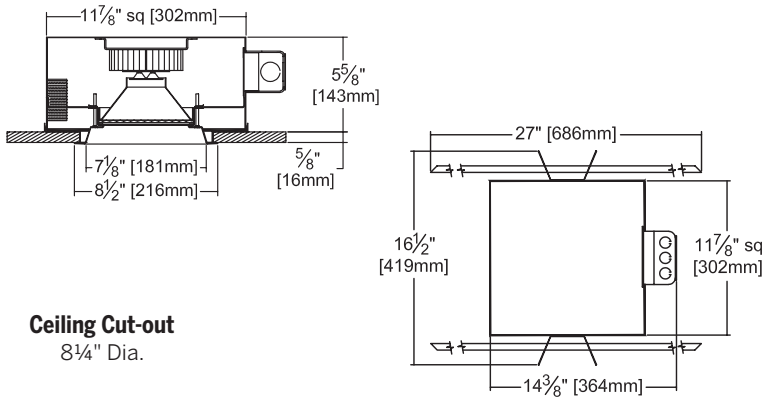
IP65

FCC Part 15
Certified

UL Listed
Wet, Damp, Dry

Must Specify			Optional											
Model	Lumens	Volts	CCT & CRI	Beam	Driver Options	Emergency	Trim & Lens Options	Other Options						
MRR-07550	-2000L -1500L	-120 -277 -97: Other voltage; consult factory	(Blank): 35K, 80+ CRI 80+ CRI -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4100°K -50K: 5000°K 90+ CRI -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4100°K -50K-HC: 5000°K	(Blank): NFL -MFL	(Blank): Standard 0-10V CCR 10% dim -D1: 0-10V 1.0% dim -D2†: 0-10V 0.1% dim -D3†: DALI 1.0% dim -D4†: DALI 100-0.1% dim -D5†: DMX512A 0.1% dim	(Blank): None -E1: Remote emergency inverter for 50% of rated lumens; 90+ minutes; 60Hz input only; N/A for option -FS -ERH: Remote emergency battery pack; delivers 1000 lumens; 90+ minutes (CEC Compliant)	(Blank): White trim, regressed prismatic lens	(Blank): None -99: Special modification; consult factory -FS: Fused primary; One per fixture; not for use with option -E1 -NS: NSF approved fixture						
*See note next page														
<table border="1"> <thead> <tr> <th colspan="2">Projected L70** for Kirlin Luminaires</th> </tr> </thead> <tbody> <tr> <td>In Open Plenum</td> <td>90,000 hours</td> </tr> <tr> <td>In Insulation (Type IC)</td> <td>60,000 hours</td> </tr> </tbody> </table>			Projected L70** for Kirlin Luminaires		In Open Plenum	90,000 hours	In Insulation (Type IC)	60,000 hours						
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In Open Plenum	90,000 hours													
In Insulation (Type IC)	60,000 hours													
**Hours at 70% lumen maintenance														
					† Consult factory for use with -2000L lumen series									

Dimensions



Infection Control Levels

Level	Option	Infection Protection
3	Standard	

Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.26	1.37	0.92
-1500L	1.00	1.00	1.00

Footcandle Distribution Data

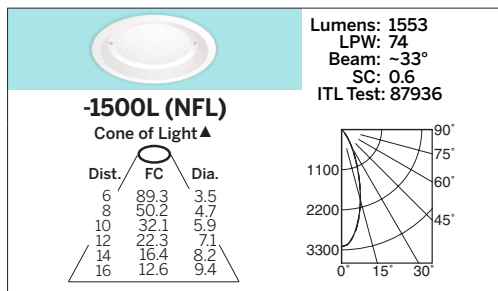
Notes:

- All lighting levels are expressed in average footcandles, with distances expressed in feet, as measured at the work plane (3'6")
- The work plane (3'6") is defined as: examination bed height, plus patient body depth

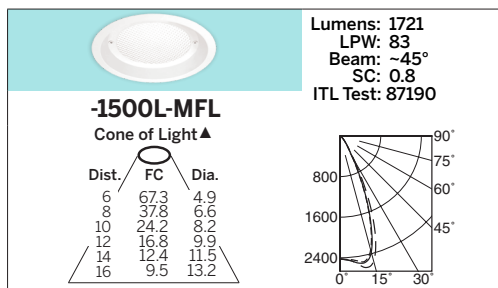
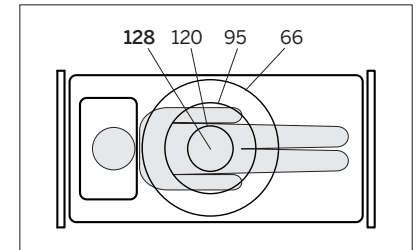
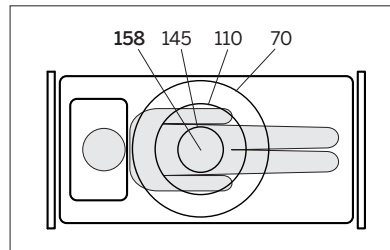
Photometry - Installed Complete Fixture

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

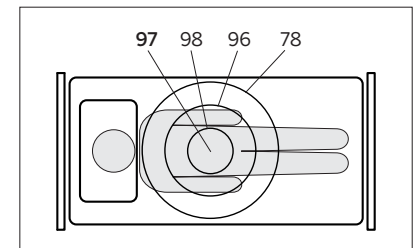
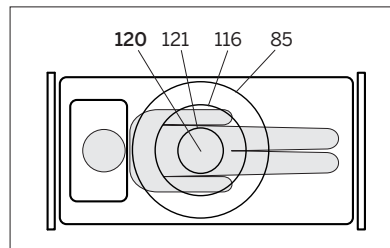
LM-79 IESNA Certified Photometry from Independent Lab



Total System Watts 20.9



Total System Watts 20.8



*LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

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

LIMITED WARRANTY: KIRLIN LIGHTING FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, 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 to the office of manufacturer within the warranty period. 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 applied 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. 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.
 PATENT SPACES
 REV. MAR 2023