

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

# Lighting for Patient Spaces

## Clean Room 6" Downlight • LED

Type IC • Wet Location • White IP66 Rated Trim

LM-80 Qualified • LM-79 Certified Photometry

## Specifications

### Delivered System Performance\*

- Nominal Lumens: **Must Specify**
  - Type IC**
  - 2000L**
  - 1500L**
  - 1000L**
- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 90,000 Hour Rated Life (L70\*\*)

### 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/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
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

### Outlet Box (Galvanized)

- UL listed J-box with removable cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts

## MRR-06848



### Installation & Hardware

- Recesses indoor/outdoor in ceilings up to 1 1/8" thick
- 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) 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



## Available Infection Control Levels

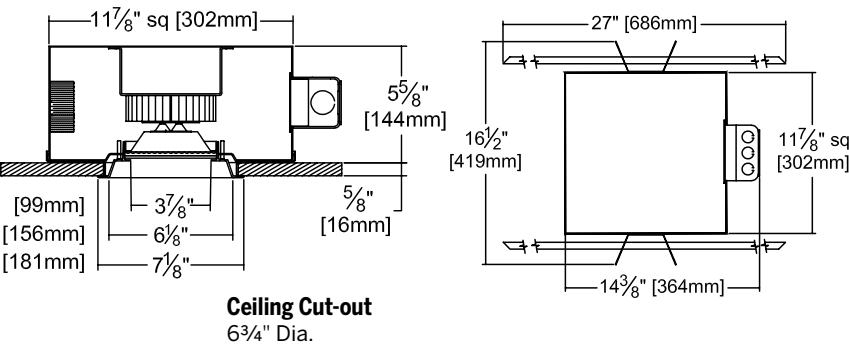
Level	Option	Infection Protection
3	Standard	 BioGard™  IP65  ISO 5 / Class 100

Options and Ordering Configuration

(Example: MRR-06848-2000L-277-41K-MFL-35T-25)

Must Specify			Optional					
Model	Lumens	Volts	CCT & CRI	Beam	Driver Options	Emergency	Lens & Trim Options	Other Options
MRR-06848								
	-2000L	-120	(Blank): 3500K, 80+ CRI	(Blank): WFL	(Blank): Standard 0-10V CCR 10% dim	(Blank): None	(Blank): Kirlin BioGard antimicrobial white finish trim with lens above	(Blank): None
	-1500L	-277						
	-1000L	-97†: Other voltage	80+ CRI	-NFL		-EI: Remote emergency inverter for 100% of rated lumens; 90+ minutes; 120V or 277V, 60Hz input only; specify voltage; N/A for option -FS	Trim Finishes	-AWN: Athena Wireless Node; N/A for Dimming Option D5
			-27K: 2700°K	-MFL	-D1: 0-10V 1.0% dim		-35T: Silver enamel (complete trim)	
			-30K: 3000°K	-WFL	-D2†: 0-10V 0.1% dim		-BKBG: BioGard™ anti-microbial black	-FS: Fused primary; One per fixture; not for use with Option -EI
			-35K: 3500°K		-D3†: DALI 1.0% dim	-ERH: Remote emergency battery pack; delivers 1000 lumens; CEC Compliant; 90+ minutes	-94: Custom color; consult factory	
			-41K: 4000°K		-D4†: DALI 100-0.1% dim		-94BG: BioGard™ anti-microbial custom color finish	*Note: For other integrated control solutions, such as nLight, contact factory
			-50K: 5000°K		-D5†: DMX512A 0% dim		-BN: Brushed nickel cast trim instead (non BioGard)	
			90+ CRI				Other Trim Features	
			-27K-HC: 2700°K				-25: Vandal resistant trim, hardware, and lensing. Provides ligature and vandal resistance. Not available with NSF rating	
Projected L70** for Kirlin Luminaires								
In Open Plenum		90,000 hours						
In Insulation (Type IC)		60,000 hours						
**Hours at 70% lumen maintenance								

Dimensions



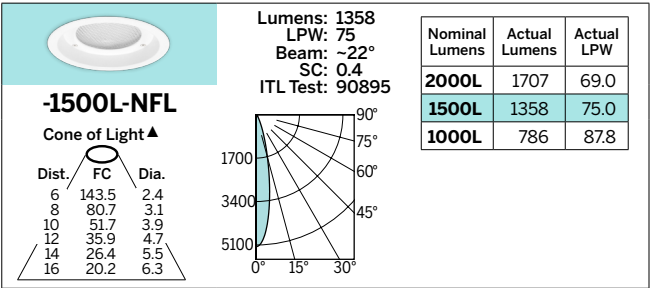
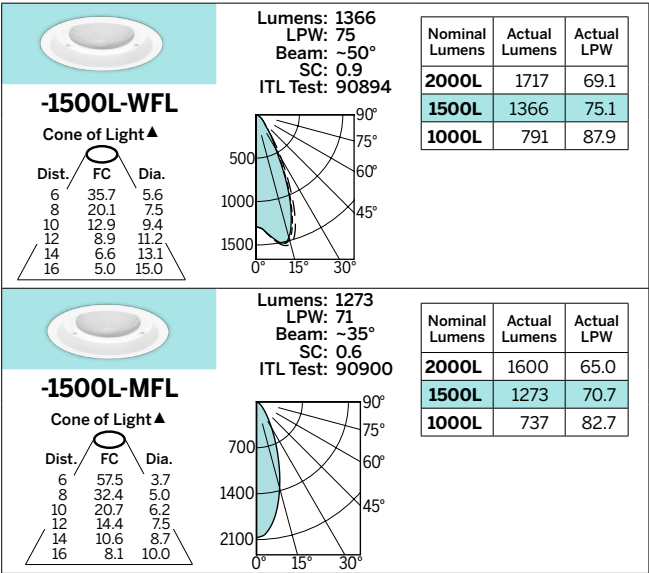
Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.257	24.9	0.92
-1500L	1.00	18.2	1.00
-1000L	0.579	9.01	1.17

Photometry - Installed Complete Fixture

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

LM-79 IESNA Certified Photometry from Independent Lab



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