

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

# Lighting for Patient Spaces

## Sealed & Gasketed 8" Downlight • LED

Class 100 Clean Room (-SH) • IP65 Rated • Wet Location  
LM-80 Qualified • LM-79 Certified Photometry

### Specifications

#### Delivered System Performance\*

- Nominal Lumens: **Must Specify**

##### Non-IC

-5000L

-3500L

-2500L

- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 60,000 hour 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

- Rustproof 100% aluminum grooveless, smooth, self-flanged white trim
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim

- Regressed tempered prismatic spread lens with high efficiency reflector above

#### IP65 Sealed and Gasketed

- Liquid silicone seal between trim and lens
- Closed cell housing flange gasketing seals trim to housing
- Closed cell trim flange gasketing seals flange to ceiling
- O-rings seal stainless steel fasteners to trim

#### Acrylic Enamelled Aluminum Housing

- 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

#### Installation & Hardware

- Recesses indoor/outdoor in ceilings up to 1 1/8" thick or see Option -79

## MRR-08835



- 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
- 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

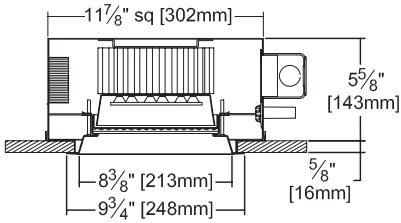
## Options and Ordering Configuration

(Example: MRR-08835-3500L-120-41K-SPT-35T-SH)

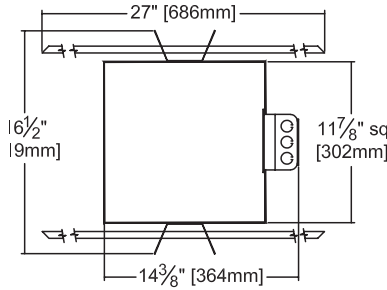


Must Specify			Optional					
Model	Lumens	Volts	CCT & CRI	Beam	Driver Options	Emergency	Lens & Trim Options	Other Options
MRR-08835	-5000L -3500L -2500L	-120 -277 -97†: Other voltage	(Blank): 3500K, 80+ CRI  <b>80+ CRI</b> -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4100°K -50K: 5000°K <b>90+ CRI</b> -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4100°K -50K-HC: 5000°K	(Blank): MFL  -NFL -MFL -WFL	(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% dim -ECO: Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory; -3500L max	(Blank): None  -E1: Remote emergency inverter for 50% of rated lumens (-5000L or -3500L); N/A for -2500L. Run time: 90+ minutes; 120V or 277V, 60Hz input only; specify voltage; N/A for option -FS -EM: Internal emergency battery pack; Delivers 500 lumens; 90+ minutes -ERH: Remote emergency battery pack; delivers 1000 lumens; CEC Compliant; 90+ minutes	(Blank): Kirlin BioGard antimicrobial white finish trim with lens above  <b>Trim Finishes</b> -35T: Silver enamel (complete trim) -94: Custom color; consult factory <b>Other Trim Features</b> -13: Clear poly lens below lens. Photometric distribution unaffected -17: Prismatic high strength acrylic lens instead -23: Frosted micropismatic lens instead -CF: Custom color filter (Rosco). Specify -GE: Green acrylic filter mounted in lens assembly -NS: NSF approved fixture -WA: White acrylic (flat) diffuser instead; will produce wide flood distribution	(Blank): None  <b>Mounting</b> -79: Extension collar; ceilings up to 2" thick  <b>Other Options</b> -99: Special modification; consult factory -FS: Fused primary; One per fixture -SH: Sealed housing and junction box. Provides Cleanroom Rated luminaire (ISO 5 Class 100)

## Dimensions



**Ceiling Cut-out**  
9 1/4" Dia.



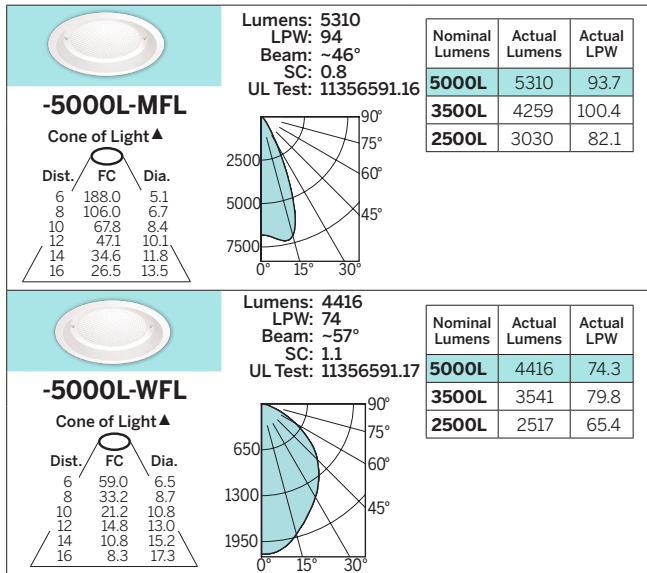
## Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-5000L	1.00	56.7	1.00
-3500L	0.80	42.4	1.07
-2500L	0.57	36.9	0.88

## Photometry - Installed Complete Fixture

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

LM-79 IESNA Certified Photometry from Independent Lab



### Available Infection Control Levels

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

\*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

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