

CATALOG #		TYPE	
JOB NAME	WATTAGE	VOLTAGE	

Lighting for Patient Spaces

Static Color 8" Downlight • LED

LM-79 Certified • LM-80 Qualified Type IC • Wet Location

OPTION	LED COLOR		TYPICAL APPLICATION
-521	Green	(521nm)	Operating Room
-617	Red / Orang	ge (617nm)	Vivarium
-634	Red / Ambe	r (634nm)	Circadian

MRR-08870



150 S 100 CLEANDOM	NSF	IP ₆₅	VR		USA	F©	c (UL) us
ISO 5/Class 100 See Option -SH	NSF Certified See Option -NS	IP65 See Option -165	Vandal Resistant See Option -25	BioGard™	Made in the USA BABAA Compliant	FCC Part 15 Certified	UL Listed Wet, Damp, Dry

Specifications

Delivered System Performance

- LED Color Suffix: Must Specify
 - -521: Green (521nm); 1552 typical lumens -617: Red/Orange (617nm); 1193 typical lumens
 - -634: Red/Amber (634nm); 811 typical lumens
- Distribution: WFL
- 60,000 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 10% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

Trim

- Rustproof 100% aluminum grooveless, smooth, self-flanged white trim (field paintable)
- 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

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- · 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, 14GA, insulated, removable cover
- ½" and ¾" knockouts

Installation & Hardware

- Recess indoor/outdoor in ceilings up to 1½8" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" 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

Options and Ordering Configuration

(Example: MRR-08870-521-120-35T-25-165-SH)

Must Specify			Optional			
Model	LED Color Suffix	Volts	Driver Options	Emergency Options	Trim Options	Other Options
MRR-08870						
	-521: green 521nm -617: red/orange 617nm -634: red/amber 634nm	(Blank): 120-277 -120 -277 -97 [†] : Other Voltage	(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 -EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; 120 or 277V, 60 Hz only; N/A for options -29 or -FS -EM: Internal emergency battery pack; Delivers 500 lumens; Run time: 90+ minutes -ERH: Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	(Blank): White self-flanged downlight trim Trim Finishes -35T: Silver enamel trim -94: Custom color; consult factory -BKBG: BioGard™ anti-microbial black -94: Custom color; consult factory -94BG: BioGard™ anti-microbial custom color finish Other Trim Features -23: Frosted microprismatic lens instead -25: Vandal resistant trim, hardware and lensing. Not available with Option -NS -I65: IP65 Rated trim instead -NS: NSF approved fixture. Not available with Option -25 -WA: White acrylic (flat) diffuser instead	(Blank): None -79: Extension collar for ceilings up to 2" thick -99: Special modification; consult factory -FS: Fused primary; One per fixture; N/A for option -EI -SH: Sealed housing and junction box. Provides Cleanroom Rated luminaire (ISO 5 Class 100)
		[†] Consult factory			The mine acrylle (nat) unituser histeau	



Dimensions

-111/⁄8" sq [302mm]-

·8<mark>%</mark>" [213mm]·

-9¾" [248mm]-

27" [686mm] [143mm] 16½" [419mm] 117/8" sq [302mm] 14³/₈" [364mm]

Performance Factors

LED COLOR	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-521	1.00	29.9	1.00
-617	0.769	19.5	1.177
-634	0.523	19.5	0.801

9" Dia.

5%"

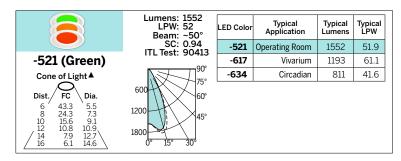
[16mm]

Ceiling Cut-out

Photometry - Installed Complete Fixture

55%'

LM-79 IESNA Certified Photometry from Independent Lab



Available Infection Control Levels

Level	Option	Infection Protection		
1	Standard	BioGard™		
2	-165	BioGard™ IP65		
3	-I65-SH	BioGard™ P65 IP65 ISO 5 / Class 100		

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

IMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTIED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., IN NORMAL USE, Manufacturer at his option will replace be purchase price on presentation of poor of purchase and defective fixture at the offices of manufacturer within the years of original shipment, Liability of manufacturer is imitted to the foregoing, and manufacturer is half not be liable for any other damages, direct or indirect, sustained or suffered by purchaser supplied to the buyer in place of all other warranties, some second in might provide in the sustained or suffered by purchaser and the purchaser and the provided in the purchaser and the provided in the purchaser and the purchaser and

^{*} See notes on page 1 for additional info on Lumen Factors