

CATALOG #	TYPE
JOB NAME	VOLTAGE

Static Color LED • 8" Clean Room Downlight

Up to 60,000 Hour Life • Wet Location
LM-80 Qualified • LM-79 Certified

MRR-08880-521
MRR-08880-617
MRR-08880-634



-521 Green (521nm)	Operating Room
-617 Red / Orange (617nm)	Vivarium
-634 Red / Amber (634nm)	Circadian



Available -
See
Options



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 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 - INTERNAL

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

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 5X Sealed and Gasketed

- (1) Silicone seal between trim and lens seals lens to trim. (2) closed cell gasketing between trim and housing flange seals trim to housing. (3) closed cell gasketing on trim flange seals flange to ceiling (4) closed cell gasketing on bottom pan seals housing to ceiling and (5) neoprene O-rings on stainless steel fasteners seal fasteners to trim.
- Meets ASTM E283 restricted airflow of 2 CFM maximum.

Acrylic Enameled Aluminum Housing

- 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, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flange.
- Sealed housing and junction box.

Outlet Box

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

¾" knockouts.

Installation

- Recess indoor or outdoor.
- Accommodates ceilings up to 1-1/8" thick or see Option -79.
- Compatible with fire rated enclosures (by others).
- 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: MRR-08880-617-120-25-35T
Product Number	Color	Options	
MRR-08880	-521 (green 521nm) -617 (red/orange 617nm) -634 (red/amber 634nm)	See "Options" below	

Options

Input Power

- 97 Specify other voltage. Consult factory.

LED Power Supply

- D1 0-10V 1.0% dimming instead.
- D2 0-10V 0.1% dimming instead.
- D3 DALI 1.0% dimming instead.
- D4 DALI 0.1% dimming instead.
- D5 DMX512A 0% dimming instead.
- EI REMOTE emergency inverter for 100% of rated lumens. Not available with -521 (green 521nm). Run time: 90+ minutes. 120 or 277V, 60Hz input only. Specify voltage. Not for use with Option -29 or -FS.

- EM INTERNAL emergency battery pack. Delivers ~500 lumens. Run time: 90+ minutes.
- ERH REMOTE emergency battery pack. Delivers ~1000 lumens. Run time: 90+ minutes. CEC Compliant.

Lens and Trim

- 23 Frosted microprismatic lens instead.
- 25 Vandal resistant trim, hardware and lensing. Not available with Option -NS (NSF rating).
- 35T Natural aluminum acrylic enameled trim.
- 94 Custom color/finish. Specify. Consult factory.

- NS NSF approved fixture. Not available with -25.
- WA White acrylic (flat) diffuser instead.

Other

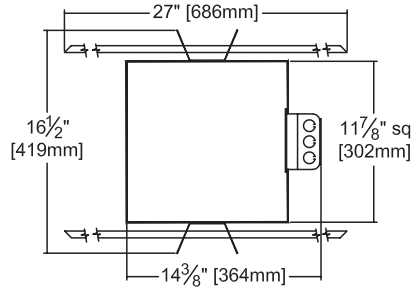
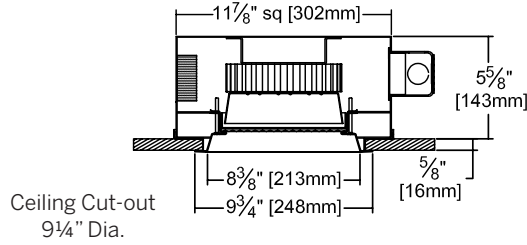
- 79 Extension collar for up to 2" thick ceilings.
- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.

MRR-08880-521

PERFORMANCE



Dimensions



Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

MRR-08880-521 (Green: Operating Rooms-521nm)

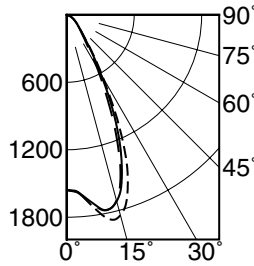
Lumens: 1552
Beam: ~50°
SC: .94
LPW: 52
Efficiency: 72.4%
ITL Test: 90413



Cone of Light ▲

Dist.	FC	Dia.
6	43.3	5.5
8	24.3	7.3
10	15.6	9.1
12	10.8	10.9
14	7.9	12.7
16	6.1	14.6

Total System Watts 29.9



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	1558	1558	1558	1558	1558
5	1618	1623	1621	1614	1612
15	1845	1797	1710	1699	1716
25	1118	1003	905	938	1013
35	364	325	298	316	348
45	153	151	151	149	149
55	85	85	84	85	84
65	41	42	43	42	43
75	13	13	13	13	13
85	2	2	2	2	2
90	0	0	0	0	0

COLOR SUFFIX	LED COLOR	TYPICAL APPLICATION	TYPICAL LUMENS	LUMEN FACTOR	SYSTEM WATTS	LUMENS / WATT	LPW FACTOR
-617	Red / Orange (617nm)	Vivarium	1193	0.769	19.5	61.1	1.177
-634	Red / Amber (634nm)	Circadian	811	0.523	19.5	41.6	0.801

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 UL Verification Services (UL) where photometry was measured from 2143 lumen 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

SUBMITTAL DATA

JOB NAME

TYPE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALL 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 original, 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.

LED MED GEN
REV. MAR 2023