

CATALOG #	TYPE
JOB NAME	VOLTAGE

MRT-04510-5000L

4" x 9" Rectangular Exam Light • LED

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



Two LED Arrays Prevent
Loss of Illumination

**LEVEL 1
INFECTION
PROTECTION**

Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
- 5000L: 2x2500 nominal lumens (2x35W).
- Distribution: NFL standard.
- Color temperature: 3500°K standard.
Optional: -30K or -41K.
- CRI: 80+ standard. Optional: -HC (90+).
- 60,000 hour life (L70).
- Fully sustainable: removable for servicing.

Thermal Protection: SPECIFY VOLTAGE

- Thermal protector for insulation detection per UL/NEC. Must specify input voltage.

Thermal Management System

- All aluminum proprietary heat sink, components and housing maximize cool operation and long life while minimizing maintenance.

LED Power Supplies (2) - 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 and Lens Assembly

- Aluminum self-flanged downlight cone with clear tempered microprismatic glass lens above.
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim.

Acrylic Enamelled Aluminum Housing

- Rustproof and corrosion resistant. Exceeds 1000 hour ASTM 5% salt spray test.
- Cool operation: Extends life of all components.
- Fully sustainable: Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flange.

Outlet Box

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

Installation

- Recess indoor or outdoor.
- Accommodates ceilings up to 1-1/8" thick.
- 27" galvanized hanger bars with adjustable mounting 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.

MUST SPECIFY		OPTIONAL
Fixture Number	Voltage	Options
MRT-04510-5000L	120 (120 volts) 277 (277 volts) -97 (Specify other)	See "Options" below

Ordering Example:

MRT-04510-5000L-120-30K-45

Options

Input Power: SPECIFY

- 120 120V (50-60Hz) input for thermal protector.
- 277 277V (50-60Hz) input for thermal protector.
- 97 Specify other voltage. Consult factory.

LED Power Supply

- 29 **Two wire** full range (100-1%) PWM dimming instead (Lutron). Not available with Option -EI.
- 39 **Three wire** full range (100-1%) PWM dimming instead (Lutron).

- EI REMOTE emergency inverter for 50% of rated lumens. One array only. 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. One array only. Run time: 90+ minutes. CEC compliant.

Color (CCT and CRI)

- 27K Color temperature 2700°K instead.
- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC 90+ CRI instead. 3000°K only.

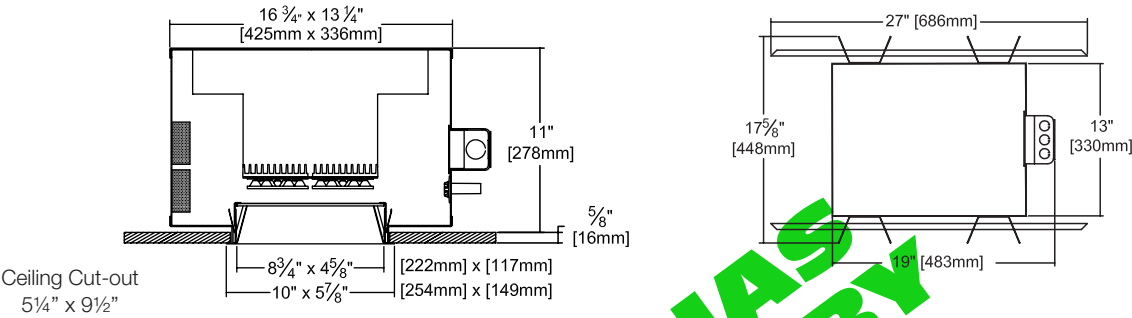
Trim

- 45 Gasket between trim flange and ceiling.

Other

- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.

Dimensions



Footcandle Distribution Data

- Notes:
1. All lighting levels are expressed in average footcandles, with distances expressed in feet as measured at the work plane (3'6").
 2. The work plane (3'6") is defined as: examination bed length and width.
 3. Fixture is centered over examination bed with its long axis parallel to the length of the bed.
- Photometric testing done in accordance with IESNA M-79

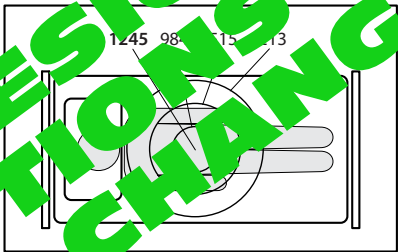
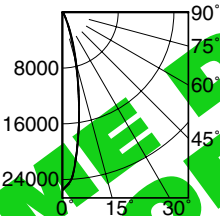
-5000L STANDARD (NFL)

Lumens: 5249
SC: 0.4
LPW: 73
Efficiency: 70.6%
UL Test: 1259214

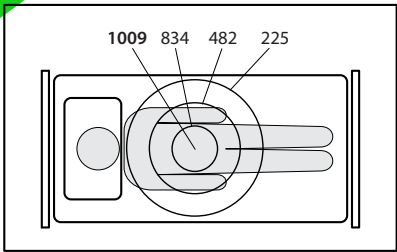
Total System Watts 71.6

Cone of Light ▲

Dist.	FC	Dia.
6	709.0	2.2
8	399.0	2.9
10	255.0	3.6
12	177.0	4.3
14	130.0	5.1
16	99.7	5.8



fc on Task: 8' Ceiling 3'6" Work Plane



fc on Task: 8'6" Ceiling 3'6" Work Plane

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 7434 lumen (-5000L) light engines (within the established tolerance).

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

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME
TYPE
WATTAGE
CATALOG NUMBER

VOLTAGE

