

CATALOG #	TYPE
JOB NAME	VOLTAGE

MRT-05515-7000L
MRT-05515-5000L

5" x 11" 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

Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
 - 7000L: 2x3500 nominal lumens (2x42W).
 - 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.

Optics

- Standard NFL distribution (0.4 SC).

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

- Tapered smooth aluminum flare self-flanged trim; prevents contaminant or dust build-up. Easily cleaned.
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim.
- Sturdy extruded aluminum construction.
- Torsion springs retain snug fit to ceiling.
- Regressed clear tempered microprismatic glass lens.

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

LEVEL 1
INFECTION
PROTECTION

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	Ordering Example: MRT-05515-7000L-120-30K-45
Product Number	Voltage	Options	
MRT-05515-7000L	120 (120 volts)	See "Options" below	
MRT-05515-5000L	-27 (277 volts)		
	-97 (Special Order)		

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 25% of rated lumens (-7000L) or 50% (-5000L). One array

only. Run time: 90+ minutes. 120 **or** 277V, 60Hz input only. Specify voltage. Not for use with Option -29 or -FS.

- 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

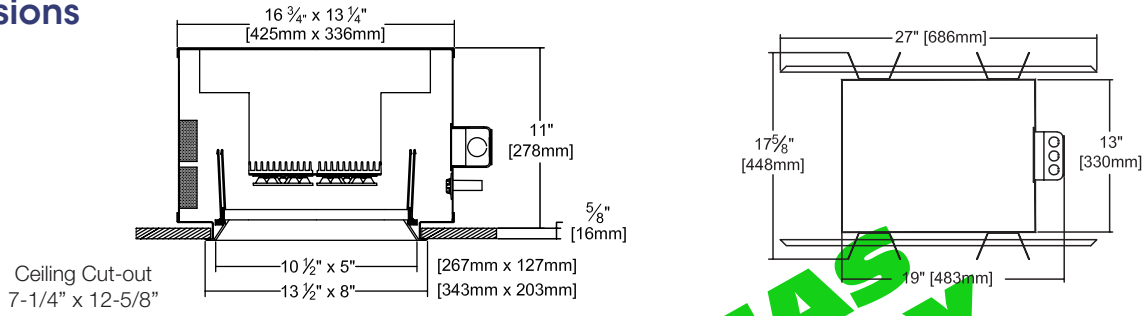
- 45 Gasket between trim flange and ceiling.
- 46 Gasket between trim and lens.

Other

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

*See note next page

Dimensions



Footcandle Distribution Data

- Notes:
1. All lighting levels are expressed in average footcandles, with footcandle values expressed in feet as measured at the work plane (3'6").
 2. The work plane (3'6") is defined as: examination table with patient lying on the table.
 3. Fixture is centered over examination bed with light axis parallel to the long axis of the bed.

Photometry from [redacted] Verification Services, Allentown, PA
Photometric testing was performed in accordance with IESNA LM-79

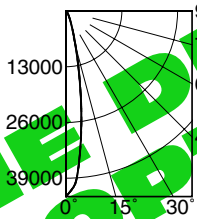
-7000L (2x3500)

Efficiency: 91.31
UL 79: 91.31

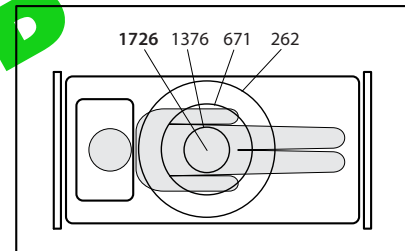
Total System Watts 87.9

Cone of Light ▲

Dist.	FC	Dia.
6	1200.0	1.9
8	676.0	2.5
10	433.0	3.2
12	300.0	3.8
14	221.0	4.4
16	169.0	5.0



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



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

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* 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 9538 lumen (-7000L) 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

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. INSTALLATION 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 the years of original shipment. Liability of manufacturer is limited to the foregoing, 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 the 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.