

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

5" x 11" LED 6600 • 4800 LUMEN SERIES 84 • 70 WATT MRT-05552

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

LEVEL 1

Specifications

Delivered System Performance*

- Standard NFL distribution: 6410 delivered lumens / 74 LPW / 0.4 SC.
- 2x42 watt LED array. 3500°K standard (or see Options -30K or -41K).
- Up to 85 CRI and 60,000 hour life (L70). For 90+ CRI, see Option -HC.
- Option -43: 4800 lumen / 70 watt (2x35) series package instead.
- Fully sustainable: removable for servicing.

Optics

- Standard NFL distribution (0.4 SC).

Thermal Management System

- All aluminum proprietary heat sinks, 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%)

Thermal Protection: SPECIFY VOLTAGE

- Thermal protector for insulation detection per

UL/NEC. Must specify input voltage.

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.
- See Option -GE for green acrylic filter.

Acrylic Enameled 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.

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).

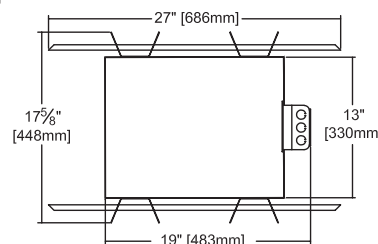
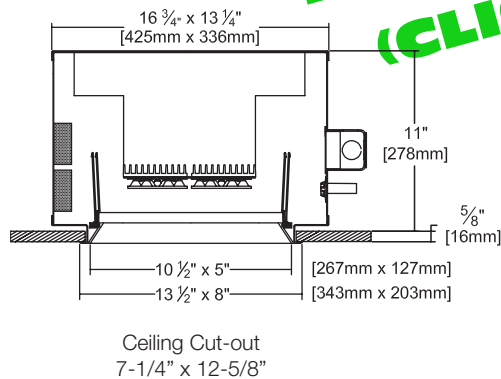
CE & FCC Compliance

- 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

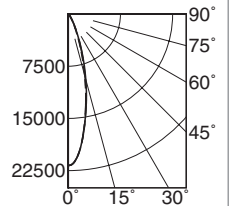
- Complete standard fixture.

Performance at a Glance



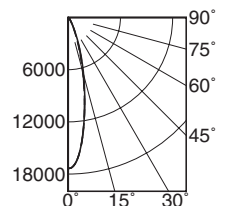
STANDARD (NFL) DISTRIBUTION

Lumens: 6410
SC: 0.4
LPW: 74
Efficiency: 72.4%
ITL Test: 79898



Option -43 (84W) (2x42W)

Lumens: 4532
SC: 0.4
LPW: 62
Efficiency: 67.2%
ITL Test: 79936



THE KIRLIN COMPANY

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*See note next page

MEDICAL FACILITY - LED EXAM LIGHTING

CATALOG NUMBER

MRT-05552

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

Footcandle Distribution Data

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

- 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 height, plus patient body depth.
 3. Fixture is centered over examination bed with its longest axis parallel to the length of the bed.

Photometric testing done
in accordance with IESNA
LM-79-08

STANDARD (84W) (2x42W)

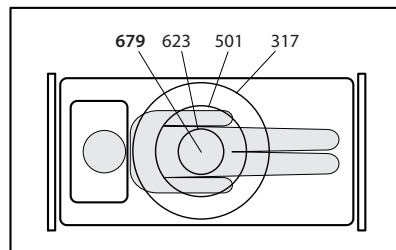
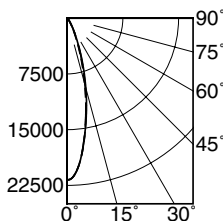
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LPW: 74
Efficiency: 72.4%
ITL Test: 79898



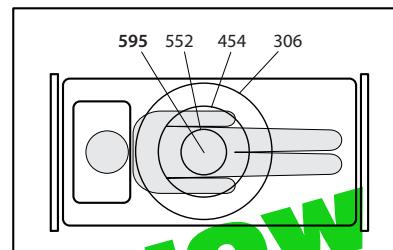
Total System Watts 86.2

Cone of Light ▲

Dist.	FC	Dia.
6	604.8	2.7
8	340.2	3.6
10	217.7	4.5
12	151.2	5.3
14	111.1	6.2
16	85.0	7.1



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



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

Option -43(70W) (2x35W)

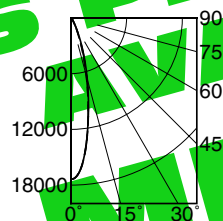
Lumens: 4532
SC: 0.4
LPW: 62
Efficiency: 67.2%
ITL Test: 79936



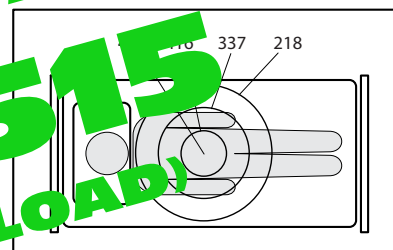
Total System Watts 73.6

Cone of Light ▲

Dist.	FC	Dia.
6	482.3	2.5
8	271.3	3.3
10	173.6	4.1
12	120.6	5.0
14	88.6	5.8
16	67.8	6.6



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 $\pm 7\%$ on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL) where photometry was measured from 8854 lumen (2x42W) and 6742 lumen (2x35W) 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

Options

LED Power Supply

- 120 120V (50-60Hz) input for thermal protector.
- 277 277V (50-60Hz) input for thermal protector.
- 29 **Two wire** full range (100-1%) PWM dimming instead (Lutron).
- 39 **Three wire** full range (100-1%) PWM dimming instead (Lutron).
- 43 4800 lumen / 70 watt (2x35) series package instead. See performance above. Also see Options -29 and -39.

- 97 Specify other voltage. Consult factory.
- EI Remote emergency inverter for 30% of rated fixture lumens, one LED array only. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage.

Color (CCT and CRI)

- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC 90+ CRI instead. 3000°K only. Consult factory for availability. Reduces output by ~15%.

Trims

- 45 Gasket between trim flange and ceiling.
- 46 Gasket between trim and lens.
- GE Green acrylic filter mounted in lens assembly.

Other

- 99 Special modification. Consult factory.
- FS In-line fusing.

EMI-21220 SmartPower™ Emergency Back-Up System: see www.kirlinlighting.com

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

CATALOG NUMBER

VOLTAGE

APPROVAL STAMP



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE 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 option of manufacturer within three 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 by 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.