

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

7" LED 4800 • 3300 LUMEN SERIES 55 • 42 WATT

MRR-07530

LED Exam Light • Antimicrobial Trim



Concentrated Beam for Optimal Patient Illumination
LM-80 Qualified • LM-79 Certified Photometry
Up to 60,000 Hour Life • Wet Location

LEVEL 1

Specifications

Delivered System Performance*

- Standard NFL distribution: 5192 delivered lumens / 69 LPW / 0.4 SC.
- MFL: 4978 lumens / 66 LPW / 0.6 SC.
- 55 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: 3300 lumen / 42 watt series package instead.
- Fully sustainable: removable for servicing.

Thermal Management System

- All aluminum proprietary 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. Load insensitive.
- For Lutron HiLume dimming, see -29 or -39.

- Optional remote SmartSupply™ driver instead, see Option -SS for restrictions and details.

Thermal Protection: SPECIFY VOLTAGE

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

Trim and Lens Assembly

- Rustproof 100% aluminum grooveless, smooth, self-flanged trim.
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim.
- Regressed tempered microprismatic glass lens.
- See Option -GE for green acrylic filter.

Acrylic Enclosed 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.
- Fully sustainable: Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flange.
- Sealed housing design available, see -SH.

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 1¼" thick or see Option -79.
- 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

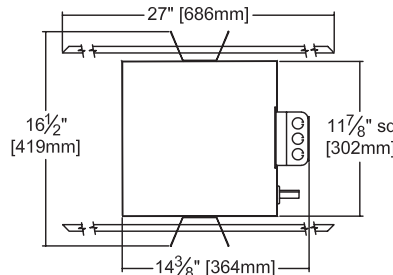
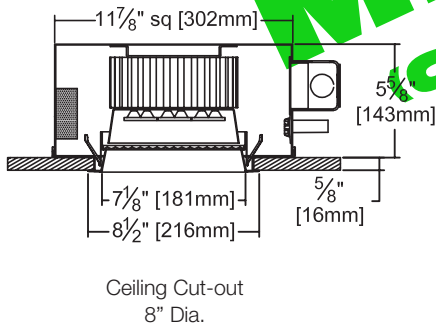
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

FIVE YEAR

Limited Warranty

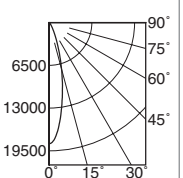
- Complete standard fixture.

Performance at a Glance



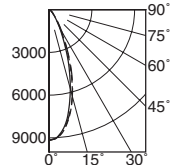
STANDARD (NFL) DISTRIBUTION

Lumens: 5192
Beam: ~24°
SC: 0.4
LPW: 69
Efficiency: 79.9%
ITL Test: 79041



Option -MFL

Lumens: 4978
Beam: ~35°
SC: 0.6
LPW: 66
Efficiency: 76.6%
ITL Test: 79040



SPECIFY VOLTAGE



THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

*See note next page

CATALOG NUMBER

MEDICAL FACILITY - LED EXAM LIGHTING

MRR-07530

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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.

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

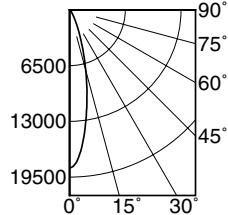
STANDARD (NFL) (55W)

Lumens: 5192
Beam: ~24°
SC: 0.4
LPW: 89
Efficiency: 87.3%
ITL Test: 79041

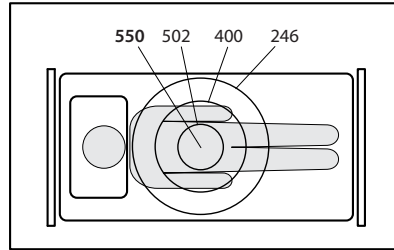


Cone of Light ▲

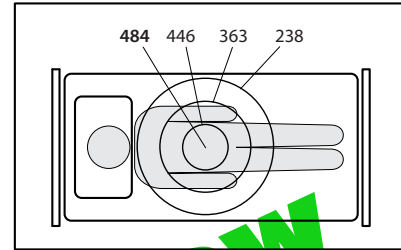
Dist.	FC	Dia.
6	511.2	2.5
8	287.5	3.4
10	184.0	4.2
12	127.8	5.1
14	93.9	5.9
16	71.9	6.8



Total System Watts 58.1



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



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

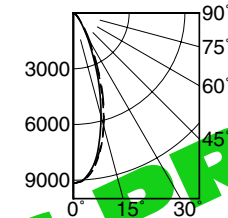
Option -MFL (55W)

Lumens: 4978
Beam: ~35°
SC: 0.6
LPW: 85
Efficiency: 83.7%
ITL Test: 79040

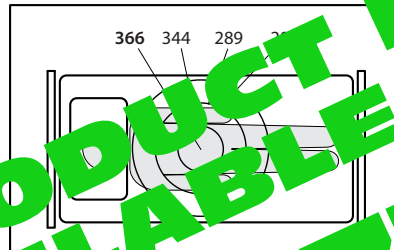


Cone of Light ▲

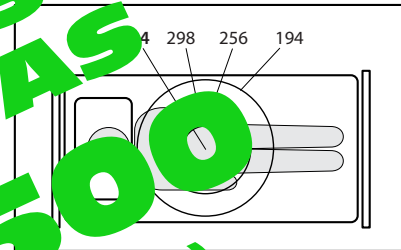
Dist.	FC	Dia.
6	254.8	3.8
8	143.3	5.0
10	91.7	6.3
12	67.3	7.5
14	46.8	8.8
16	35.8	10.1



Total System Watts 58.1



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



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

See following page for Option -43: Lower Wattage performance for 42W

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 Independent Testing Laboratories (ITL) where photometry was measured from 5946 lumen (55W) light engines (within the established tolerance).

▲ Cone of Light Key
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)
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). 120V only.
- 39 **Three wire** full range (100-1%) PWM dimming instead (Lutron).
- 43 3300 lumen / 42 watt series instead. See performance next page. Also see -29, -39.
- 97 Specify other voltage. Consult factory.
- EI Remote emergency inverter for 45% of rated lumens for 55W or 42W. Run time: 90+ minutes. 120 **or** 277V, 60Hz input

- 29 Only Specify voltage. Not for use with -SS SmartSupply™ driver or with -29.
- SS Remote mounted Kirlin SmartSupply™ driver (instead of standard internal driver), sold separately. Drives up to 3 (55W) luminaires. Not available for -43(42W). Order LPS-1220A (0-10V analog for 100-1% PWM dimming). See submittal sheet at www.kirlinlighting.com.

Color Temperature (CCT)

- 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%.

Optics

- MFL Medium flood distribution. (0.6 SC)

Trims

- 32 White oversize trim ring. Specify O.D.
- 45 Gasket between trim flange and ceiling.
- 46 Gasket between trim and lens.
- GE Green filter added to lens assembly.

Other

- 79 Extension collar for up to 2" thick ceilings.
- 99 Special modification. Consult factory.
- FD Dual circuit fusing for use only with Option -EI.
- FS In-line fusing.
- SH Sealed housing and junction box. Meets ASTM E283 restricted airflow of 2 CFM maximum.

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

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

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Footcandle Distribution Data

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

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

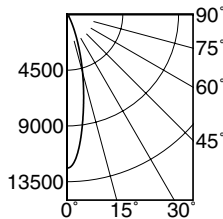
Option -43(42W) STANDARD (NFL)

Lumens: 3404
Beam: ~24°
SC: 0.4
LPW: 80
Efficiency: 76.8%
ITL Test: 79875

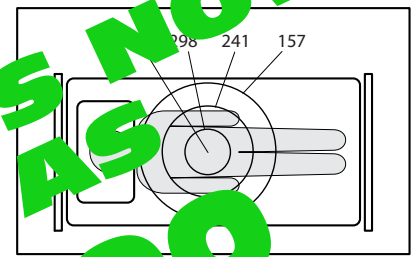
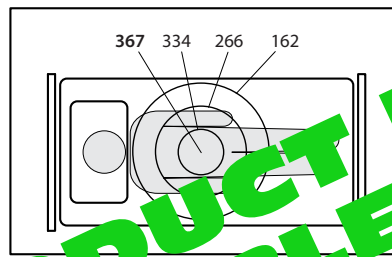


Cone of Light ▲

Dist.	FC	Dia.
6	344.3	2.5
8	193.7	3.3
10	124.0	4.1
12	86.1	5.0
14	63.2	5.8
16	48.4	6.6



Total System Watts 43.1



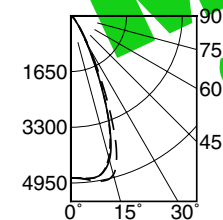
Options -43(42W)-MFL

Lumens: 3325
Beam: ~44°
SC: 0.7
LPW: 77
Efficiency: 75.1%
ITL Test: 79876

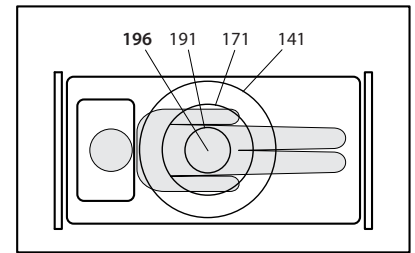
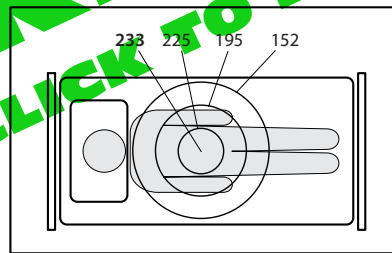


Cone of Light ▲

Dist.	FC	Dia.
6	133.2	4.8
8	74.9	6.4
10	47.9	8.0
12	33.3	9.6
14	24.5	11.2
16	18.7	12.8



Total System Watts 43.1



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▲ 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

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