KIRLIN
Lighting Since 1895

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

8" LED   4800 • 3300 LUMEN SERIES   55 • 42 WATT   MRR-08546

Cleanroom / Hybrid OR LED IP65 Adjustable

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

BioGard

ISO 5 CLASS 100 CLEANROOM   ISO 14644-1 FED STD 209E   IEC   IP65   CCEA Approved

Sealed Housing & Trim

LEVEL 3

Specifications

Delivered System Performance*
- Standard NFL distribution: 4487 delivered lumens / 77 LPW / 0.4 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.

Center Beam Optics
- Self-aligns with trim for optimal performance.
- Hot aiming by hand. Tilts from 0° to 35° in 1° increments and locks in place.
- Rotates full 365° and locks in place.
- Accommodates sloped ceilings up to 35°.

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 (100-10%).**
- 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. Regressed tempered microprismatic glass lens.
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim.
- See Option -GE for green filter.

Cleanroom, 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.

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.

- Sealed housing and junction box. Meets/ exceeds ASTM E283 restricted airflow of 2 CFM maximum. CCEA approved.

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.
- Thru-branch conductors (4 #12 AWG 90°C).
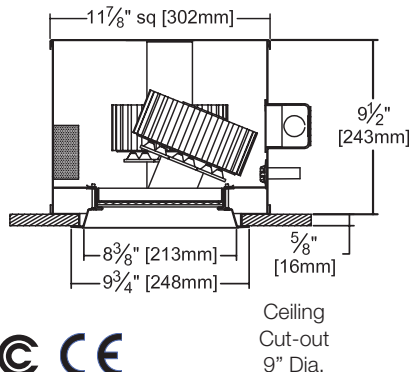
CE & FCC Compliance
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
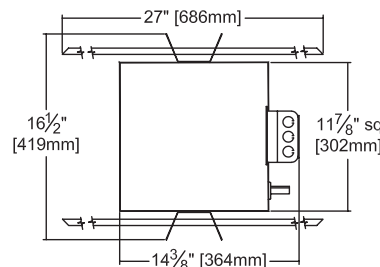- FCC Part 15 certified for EMI/RFI emissions.

5 Year   FIVE YEAR   Limited Warranty
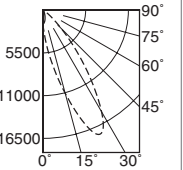- Complete standard fixture.

Performance at a Glance

11⅞" sq [302mm]
9½" [243mm]
8⅜" [213mm]
9¾" [248mm]
⅝" [16mm]
Ceiling Cut-out 9" Dia.

SPECIFY VOLTAGE

27" [686mm]
16½" [419mm]
11⅞" sq [302mm]
14⅜" [364mm]

STANDARD (NFL) DISTRIBUTION

Lumens:	4487
Beam:	~25°
SC:	0.4
LPW:	77
Efficiency:	75.5%
ITL Test:	79068

5500 11000 16500
90° 75° 60° 45°
0° 15° 30°

EEE **Exceptional Energy Efficiency**

FC CE

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-08546

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.

KIRLIN
Since 1895

Footcandle Distribution Data

Photometry from I.T.L., Boulder, CO
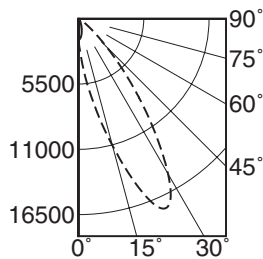
Photometric testing done in accordance with IESNA LM-79-08

Notes:
1. All lighting levels are expressed in average footcandles, with distances expressed in feet, as measured at the work plane (3'6").
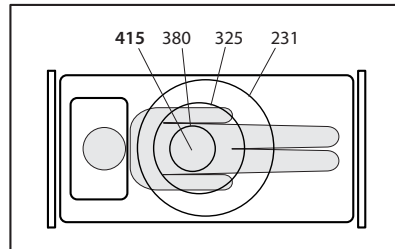2. The work plane (3'6") is defined as: examination bed height, plus patient body depth.

STANDARD (NFL) (55W)

415   380   325   231
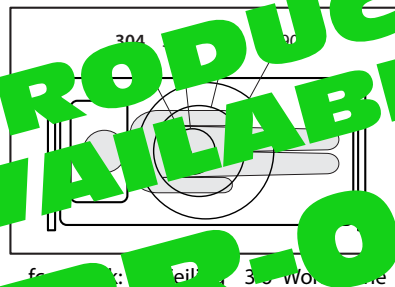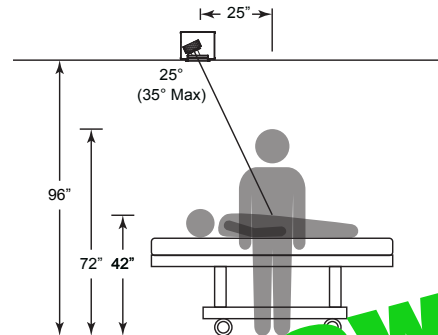
Lumens: 4487
Beam: ~25°
SC: 0.4
LPW: 77
Efficiency: 75.5%
ITL Test: 79068

EEE

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

90°
75°
60°
45°

5500
11000
16500

0°   15°   30°

Total System Watts 58.1

25"

25°
(35° Max)

96"
72"   42"

304

25°
Max

42"

fc on Task: 8' Ceiling   3'6" Work Plane
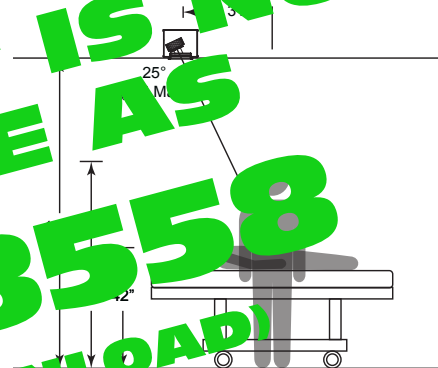
LM-80 Qualified • LM-79 Certified Photometry

* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL) where photometry was measured from 5946 lumen (55W) light engines (within the established tolerance).

Options

SPECIFY VOLTAGE

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. Also see Options -29 and -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 only. Specify voltage. Not for use with -SS SmartSupply™ driver or with Option -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%.

Trims
-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.

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

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

CATALOG NUMBER

APPROVAL STAMP

ARRA QUALIFIED

VOLTAGE