KIRLIN HEALTHCARE LIGHTING

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

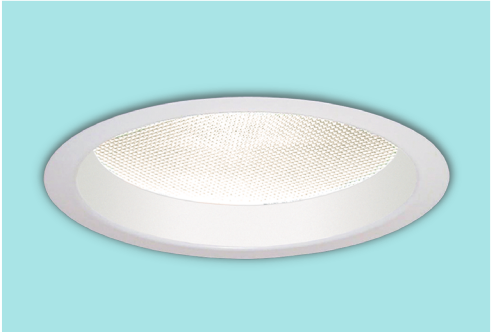
Lighting for Patient Spaces

Lensed 6" Downlight • LED

Up to 60,000 Hour Rated Life • Wet Location

LM-80 Qualified • LM-79 Certified Photometry

MRR-06815



Specifications

Delivered System Performance*
- Nominal Lumens: **Must Specify**
  Non-IC
  -5000L
  -3500L
  -2500L
- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 60,000 Hour Rated Life (L70)

Thermal Protection: SPECIFY VOLTAGE
- Thermal protector for insulation detection per UL/NEC. Must specify input voltage

Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL
- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR dimming standard (100-10%)
- Voltage Options: **Must Specify**
  -120: -120V (50-60Hz); load insensitive
  -277: -277V (50-60Hz); load insensitive

Trim/Optical Assembly - Fully Gasketed
- Seamless tapered aluminum self-flanged trim with white finish (field paintable)
- Regressed tempered prismatic spread lens

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

Outlet Box (Galvanized)
- UL listed J-box with insulated removable cover; prewired 14 GA (NEC) with ½" and ¾" knockouts

Installation & Hardware
- Indoor/outdoor in ceilings up to 1⅛" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" galvanized hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada) Listings
- Wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C) for Type IC listing

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

Made in the USA *BABAA Compliant* | BioGard™ *See Option -BG* | FCC Part 15 Certified | UL Listed Damp, Dry

Options and Ordering Configuration

(Example: MRR-06815-2500L-277-41K-NFL-35T-79)

Must Specify			Optional					
Model	**Lumens**	**Volts**	**CCT & CRI**	**Beam**	**Driver Options**	**Emergency**	**Lens & Trim Options**	**Other Options**
MRR-06815								
	-5000L **-3500L** **-2500L**	**-120** **-277** **-97†:** Other voltage †Consult factory	**(Blank):** 3500K, 80+ CRI **80+ CRI** **-27K:** 2700°K **-30K:** 3000°K **-35K:** 3500°K **-41K:** 4000°K **-50K:** 5000°K **90+ CRI** **-27K-HC:** 2700°K **-30K-HC:** 3000°K **-35K-HC:** 3500°K **-41K-HC:** 4000°K **-50K-HC:** 5000°K	**(Blank):** MFL **-NFL** **-MFL** **-WFL**	**(Blank):** Standard 0-10V CCR 1.0% dim **-D1:** 0-10V 1.0% dim **-D2:** 0-10V 0.1% dim **-D3:** DALI 1.0% dim **-D4:** DALI 100-0.1% dim **-D5:** DMX512A 0% dim **-ECO:** Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory; -3500L max	**(Blank):** None **-EI:** Remote emergency inverter for 50% of rated lumens (-5000L or -3500L); N/A for -2500L; 90+ minutes; 120V or 277V, 60Hz input only; specify voltage; N/A for option -FS **-EM:** Internal emergency battery pack; Delivers 500 lumens; CEC Compliant; 90+ minutes **-ERH:** Remote emergency battery pack; delivers 1000 lumens; CEC Compliant; 90+ minutes	**(Blank):** Seamless tapered aluminum trim with white finish **Trim Finishes** **-35T:** Silver enamel trim **-BG:** BioGard™ anti-microbial white **-BKBG:** BioGard™ anti-microbial black **-94:** Custom color; consult factory **-94BG:** BioGard™ anti-microbial custom color finish **Other Trim Features** **-13:** Clear poly lens below lens. Photometric distribution unaffected **-23:** Frosted microprismatic lens instead **-32:** White trim extender, specify OD **-45:** Gasket between trim flange and ceiling **-CF:** Custom color filter (Rosco); specify **-WA:** White acrylic (flat) diffuser instead; will produce wide flood distribution	**(Blank):** None **Mounting** **-79:** Extension collar; ceilings up to 2" thick **Other Options** **-99:** Special modification; consult factory **-AWN:** Athena Wireless Node; N/A for Dimming Options -D5, -ECO **-FS:** Fused primary; One per fixture; not for use with Option -EI ***Note:** For other integrated control solutions, such as nLight, contact factory

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

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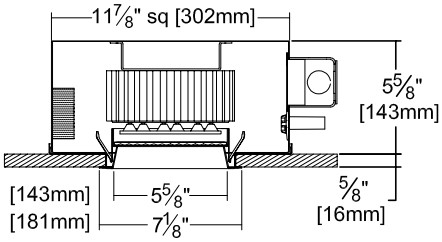
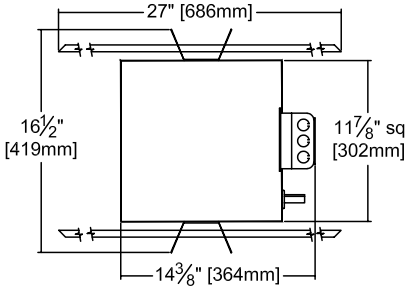
KIRLIN HEALTHCARE LIGHTING

Dimensions





Ceiling Cut-out
6½" Dia.

Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-5000L	1.00	59.4	1.00
-3500L	0.80	44.4	1.14
-2500L	0.61	36.9	0.99

Photometry - Installed Complete Fixture

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

LM-79 IESNA Certified Photometry from Independent Lab

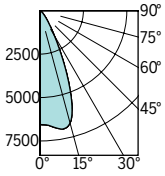
-5000L (MFL)

Lumens: 4897
LPW: 82
Beam: ~35°
SC: 0.8
UL Test: 11356591.10

Nominal Lumens	Actual Lumens	Actual LPW
5000L	4897	82.4
3500L	3927	88.4
2500L	2993	81.1

Cone of Light▲

Dist.	FC	Dia.
6	182.0	5.0
8	102.0	6.6
10	65.5	8.3
12	45.5	9.9
14	33.4	11.6
16	25.6	13.3



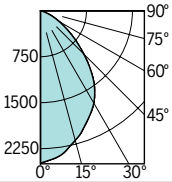
-5000L-WFL

Lumens: 4161
LPW: 69
Beam: ~56°
SC: 1.1
UL Test: 11356591.11

Nominal Lumens	Actual Lumens	Actual LPW
5000L	4161	69.2
3500L	3337	74.3
2500L	2379	64.3

Cone of Light▲

Dist.	FC	Dia.
6	69.0	6.4
8	38.8	8.5
10	24.8	10.6
12	17.3	12.8
14	12.7	14.9
16	9.7	17.0



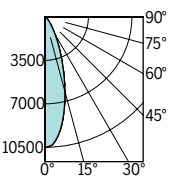
-5000L-NFL

Lumens: 4687
LPW: 79
Beam: ~31°
SC: 0.6
UL Test: 11356591.09

Nominal Lumens	Actual Lumens	Actual LPW
5000L	4687	78.5
3500L	4002	89.5
2500L	2888	78.1

Cone of Light▲

Dist.	FC	Dia.
6	292.0	3.4
8	164.0	4.5
10	105.0	5.6
12	73.0	6.8
14	53.6	7.9
16	41.0	9.0



*LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

▲ **Cone of Light Key**
Dia. (in ft.) shown is where FC value is half the FC at nadir.

Dist. Distance (Ft.) from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTIED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., IN NORMAL USE. Manufacturer at his 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 five 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 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.

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