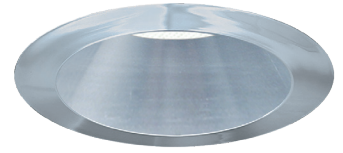


CATALOG #	TYPE
JOB NAME	VOLTAGE

Open Appearance 4" Downlight • LED

Up to 90,000 Hour Life • Type IC • Air Tight Optional
10% Dimming • 4 Distributions • 5 CCT • 3-Step Binning
LM-80 Qualified • LM-79 Certified • Wet Location

LRR-04002-2000L
LRR-04002-1500L
LRR-04002-1000L



Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
- 2000L: 2000 nominal lumens (25W).
- 1500L: 1500 nominal lumens (20W).
- 1000L: 1000 nominal lumens (11W).
- Distribution: MFL standard.
- Optional: -SPT, -NFL or -WFL.
- Color temperature: 3500°K standard.
- Optional: -27K, -30K, -41K or -50K.
- CRI: 80+ standard. Optional: -HC (90+).
- 90,000 hour life (L70**).
- Fully sustainable: removable for servicing.

Thermal Management System

- All aluminum 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) standard.

- 120-277V / 50-60Hz standard. Load insensitive.
- 0-10V CCR dimming standard. (100-10%)**

Trim Assembly

- Clear specular aluminum trim.
- Self-flanged, low glare cone with lens above.
- Optional colors and finishes available.

Acrylic Enameled 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.
- 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.
- Compatible with fire rated enclosures (by others).
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Type IC: for direct contact with insulation.
- 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.

MUST SPECIFY		OPTIONAL	Ordering Example: LRR-04002-2000L-120-30K-NFL
Product Number	Voltage	Options	
LRR-04002-2000L LRR-04002-1500L LRR-04002-1000L	-120 (120 volts) -277 (277 volts) -97 (Specify other)	See "Options" below	

Options

Input Power: SPECIFY

- 120 120V (50-60Hz) input.
- 277 277V (50-60Hz) input.
- 97 Specify other voltage. Consult factory.

LED Power Supply

- D1† 0-10V 1.0% dimming instead.
- D2† 0-10V 0.1% dimming instead.
- D3† DALI 1.0% dimming instead.
- D4† DALI 0.1% dimming instead.
- D5† DMX512A 0% dimming instead for -1000L only.
- D40 -40°C driver with 0-10V 10% dimming instead.
- EI Remote emergency inverter for 100% of rated lumens. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage. Not for use with Options -FS.
- EM INTERNAL emergency battery pack. Delivers 500 lumens. Run time: 90+ minutes.
- ERH REMOTE emergency battery pack. Delivers 1000 lumens. Run time: 90+ minutes. CEC Compliant.

Color (CCT and CRI)

- 27K Color temperature 2700°K instead.

† Consult factory for use with -2000L lumen series.

- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- 50K Color temperature 5000°K instead.
- HC 90+ CRI instead. Consult factory.

Optics

- NFL Narrow flood distribution.
- SPT Spot distribution.
- WFL Wide flood distribution.

Lens and Trim

- 23 Frosted microprismatic lens instead.
- 30T White enamel (complete trim).
- 30F White enamel (flange only).
- 32 White oversize trim ring. Specify O.D.
- 33 Decorative Glow Ring; see last page for details.
- 35T Silver enamel (complete trim).
- 35F Silver enamel (flange only).
- 37T Dark bronze enamel (complete trim).
- 37F Dark bronze enamel (flange only).
- 38T Black enamel (complete trim).
- 38F Black enamel (flange only).
- 45 Gasket between trim flange and ceiling.
- 70T Clear semi-specular SofTex™ (complete trim).
- 94 Custom color/finish. Specify. Consult factory.
- CF Custom color filter (Rosco). Specify.
- DF Electrically isolated "dead front" gasketed trim.

- WA White acrylic (flat) diffuser instead; will produce wide flood distribution.

Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum.
- FS Single in-line fuse. Not for use with Option -EI.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14 1/8" to 25 7/8" with 5/8" vertical adjustability.



Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

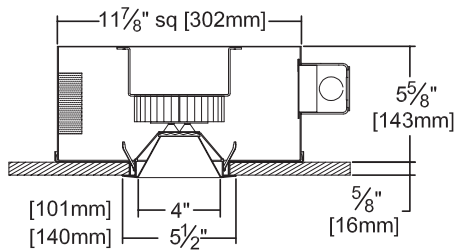
**Hours at 70% lumen maintenance

LRR-04002-1500L

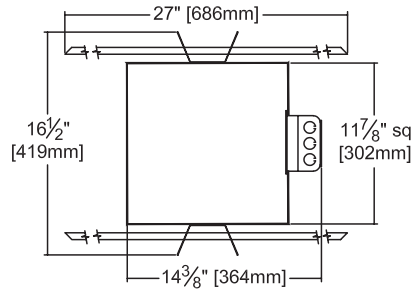
PERFORMANCE



Dimensions



Ceiling Cut-out
5" Dia.



Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

▲ Cone of Light Key
Dia. (in ft.) shown 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

-1500L STANDARD (MFL)

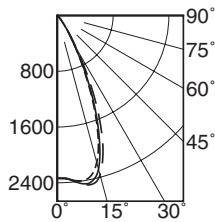
Lumens: 1538
Beam: ~45°
SC: 0.8
LPW: 74
Effic: 76.1%
ITL Test: 87226



Total System Watts 20.9

Cone of Light ▲

Dist.	FC	Dia.
6	64.9	4.9
8	36.5	6.6
10	23.4	8.2
12	16.2	9.9
14	11.9	11.5
16	9.1	13.2



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	2335	2335	2335	2335	2335
5	2371	2372	2376	2372	2367
10	2182	2273	2366	2316	2282
15	985	1089	1199	1126	1043
20	203	222	230	220	208
25	37	35	26	34	41
30	0	1	1	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

-1500L Option -SPT

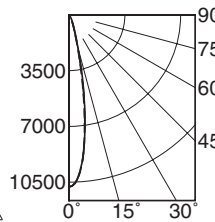
Lumens: 1629
Beam: ~20°
SC: 0.3
LPW: 78
Effic: 80.6%
ITL Test: 87179



Total System Watts 20.9

Cone of Light ▲

Dist.	FC	Dia.
6	299.4	2.0
8	168.4	2.7
10	107.8	3.4
12	74.9	4.1
14	55.0	4.8
16	42.1	5.5



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	10779	10779	10779	10779	10779
5	9337	9349	9332	9270	9315
10	1950	1984	2104	2162	2155
15	436	373	331	380	465
20	79	69	65	70	92
25	12	12	12	12	13
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

-1500L Option -NFL

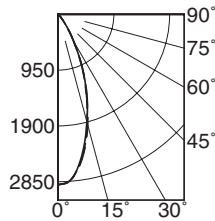
Lumens: 1428
Beam: ~35°
SC: 0.6
LPW: 68
Effic: 70.6%
ITL Test: 87933



Total System Watts 20.9

Cone of Light ▲

Dist.	FC	Dia.
6	80.6	3.8
8	45.3	5.0
10	29.0	6.3
12	20.2	7.5
14	14.8	8.8
16	11.3	10.0



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	2902	2902	2902	2902	2902
5	2797	2794	2800	2793	2793
10	1903	1929	1949	1910	1893
15	937	943	952	950	932
20	259	268	266	266	268
25	51	45	42	45	53
30	0	1	1	1	1
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

-1500L Option -WFL

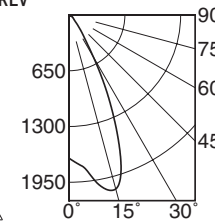
Lumens: 1538
Beam: ~51°
SC: 0.9
LPW: 74
Effic: 76.1%
ITL Test: 87226-REV



Total System Watts 20.9

Cone of Light ▲

Dist.	FC	Dia.
6	46.4	5.6
8	26.1	7.4
10	16.7	9.3
12	11.6	11.2
14	8.5	13.0
16	6.5	14.9



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	1663	1663	1663	1663	1663
5	1763	1763	1763	1763	1763
10	2097	2097	2097	2097	2097
15	1127	1127	1127	1127	1127
20	280	280	280	280	280
25	86	86	86	86	86
30	49	49	49	49	49
35	27	27	27	27	27
40	9	9	9	9	9
45	1	1	1	1	1
90	0	0	0	0	0

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 2022 lumen (-1500L) light engines (within the established tolerance).

LUMEN SERIES	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
-2000L	1.257	1.369	0.92
-1000L	0.579	0.495	1.17

SUBMITTAL DATA

JOB NAME

TYPE

CATALOG NUMBER

VOLTAGE

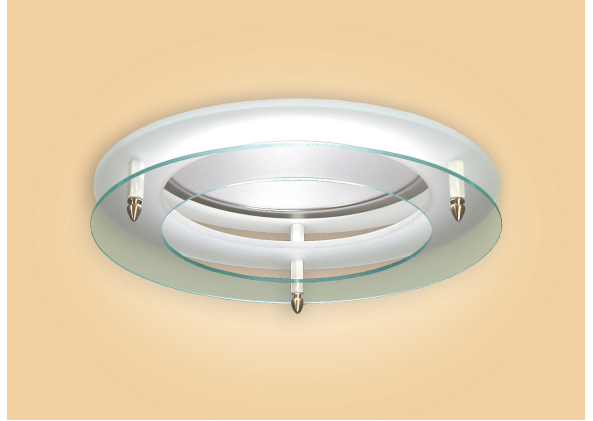
APPROVAL STAMP



¹See GRR-04202 specification sheet or "Gazelle Express Program" brochure for complete details. Limited option availability.

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALL 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 five years of original shipment. Liability of manufacturer is limited to the original manufacturer and 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.

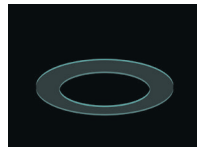
Kirlin Classic Glow Rings: Option -33 for Latitudes LED Lighting



To order a Kirlin Glow Ring, begin by adding -33 to the product number. Then, configure your Glow Ring by selecting each of the 7 design elements listed below:

(Example: LRR-04002-2000L-120-30K-NFL-33-GLM-1L-FRR-ROF-SIF-ROS-SIS)

**1. Ring Material
(choose one)**



Glass (-GLM)

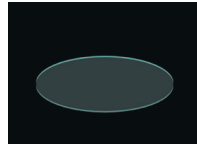


Acrylic (-ACM)

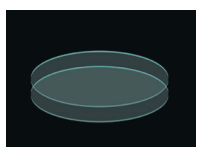


Custom (-CUM)

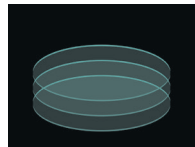
**2. # of Rings
(choose one)**



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

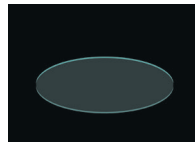
**3. Ring Design
(choose one)**



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

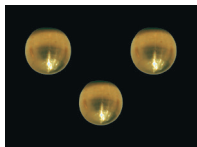


Frosted Center (-FCR)



Frosted Disk (-FDR)

**4. Finial Design
(choose one)**



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

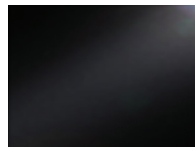
**5. Finial Color
(choose one)**



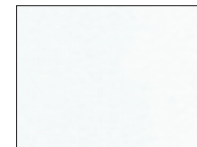
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

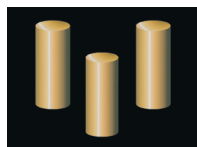


White (-WHF)

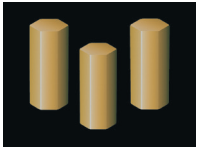


Custom (-CUF)

**6. Standoff Design
(choose one)**



Round (-ROS)



Hexagonal (-HOS)

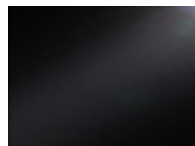
**7. Standoff Color
(choose one)**



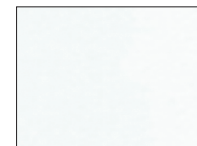
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)