

CATALOG #	TYPE
JOB NAME	VOLTAGE

Shallow Lensed 4" Downlight • LED

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

LRR-04005-2000L
 LRR-04005-1500L
 LRR-04005-1000L



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

Trim Assembly

- Seamless tapered aluminum self-flanged trim with white finish (field paintable).
- Regressed tempered prismatic spread lens.

Acrylic Enamelled 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 or see Option -79.
- 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-04005-2000L-120-30K-NFL
Product Number	Voltage	Options	
LRR-04005-2000L LRR-04005-1500L LRR-04005-1000L	-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.
- 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.
- WFL Wide flood distribution.

Lens and Trim

- 13 Clear poly lens below lens. Photometric distribution is unaffected.
- 23 Frosted microprismatic lens instead.
- 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.
- 46 Gasket between trim and lens.
- 62T Clear specular (complete trim).
- 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.

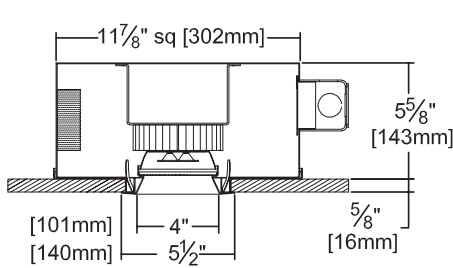
Other

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

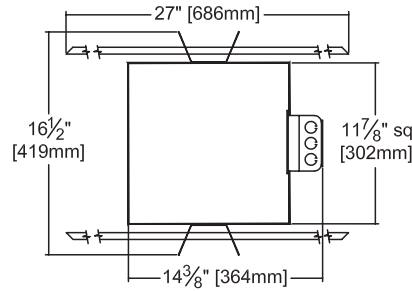
Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

**Hours at 70% lumen maintenance

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

-1500L STANDARD (MFL)

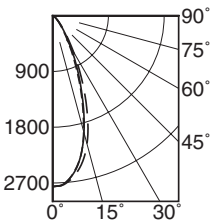
Lumens: 1685
Beam: ~38°
SC: 0.7
LPW: 80
Efficiency: 83.3%
ITL Test: 87208



Total System Watts 21.0

Cone of Light ▲

Dist.	FC	Dia.
6	76.6	4.1
8	43.1	5.5
10	27.6	6.8
12	19.2	8.2
14	14.1	9.6
16	10.8	11.0



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	2758	2758	2758	2758	2758
5	2684	2693	2702	2691	2679
15	1936	2045	2143	2067	1956
25	866	965	1087	1025	932
35	311	347	392	379	352
45	123	129	139	140	131
55	50	52	55	51	50
65	20	20	21	21	21
75	4	4	5	5	5
85	0	0	0	0	0
90	0	0	0	0	0

-1500L Option -NFL

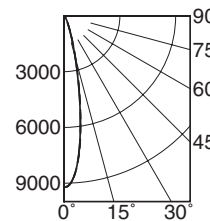
Lumens: 1800
Beam: ~21°
SC: 0.4
LPW: 86
Efficiency: 89.0%
ITL Test: 87207



Total System Watts 21.0

Cone of Light ▲

Dist.	FC	Dia.
6	255.8	2.2
8	143.9	2.9
10	92.1	3.6
12	63.9	4.3
14	47.0	5.0
16	36.0	5.8



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	9207	9207	9207	9207	9207
5	8070	8084	8047	8039	8032
15	2399	2410	2328	2300	2292
25	535	487	448	474	517
35	173	155	147	154	164
45	76	76	76	76	76
55	39	39	38	40	40
65	17	17	17	17	17
75	6	6	6	6	6
85	1	1	1	1	1
90	0	0	0	0	0

-1500L Option -WFL

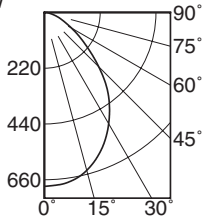
Lumens: 1363
Beam: ~58°
SC: 1.1
LPW: 65
Efficiency: 67.4%
ITL Test: 87235-REV



Total System Watts 21.0

Cone of Light ▲

Dist.	FC	Dia.
6	18.9	6.6
8	10.6	8.8
10	6.8	11.1
12	4.7	13.2
14	3.5	15.4
16	2.7	17.6



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	679	679	679	679	679
5	675	675	675	675	675
15	638	638	638	638	638
25	555	555	555	555	555
35	440	440	440	440	440
45	296	296	296	296	296
55	165	165	165	165	165
65	80	80	80	80	80
75	33	33	33	33	33
85	7	7	7	7	7
90	0	0	0	0	0

LUMEN SERIES	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
-2000L	1.257	1.369	0.92
-1500L	1.000	1.000	1.00
-1000L	0.579	0.495	1.17



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).

▲ 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

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

TYPE VOLTAGE

CATALOG NUMBER



¹See GRR-04205 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 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, 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.

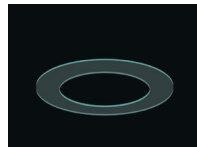
Kirlin Classic Glow Rings: Option -33 for Latitudes LED Lighting



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-04005-2000L-120-30K-NFL-33-GLM-1L-FRR-ROF-SIF-ROS-SIS)

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



Glass (-GLM)



Acrylic (-ACM)

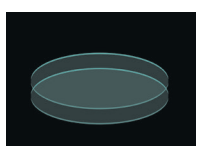


Custom (-CUM)

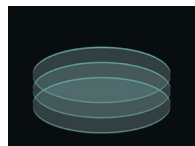
**2. # of Rings
(choose one)**



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

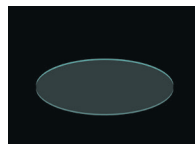
**3. Ring Design
(choose one)**



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

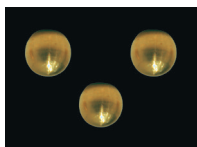


Frosted Center (-FCR)



Frosted Disk (-FDR)

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



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

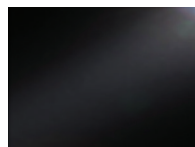
**5. Finial Color
(choose one)**



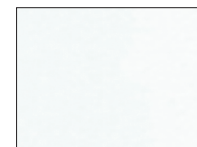
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

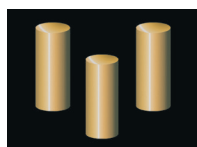


White (-WHF)

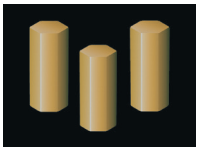


Custom (-CUF)

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



Round (-ROS)



Hexagonal (-HOS)

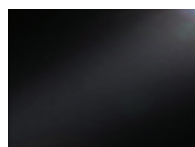
**7. Standoff Color
(choose one)**



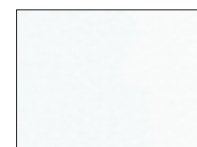
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)