

CATALOG #	TYPE
JOB NAME	VOLTAGE

## Open Appearance 6" 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-06003-2000L**  
**LRR-06003-1500L**  
**LRR-06003-1000L**



### 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 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: <b>LRR-06003-2000L-120-30K-WFL</b>
Product Number	Voltage	Options	
<b>LRR-06003-2000L</b> <b>LRR-06003-1500L</b> <b>LRR-06003-1000L</b>	<b>-120</b> (120 volts) <b>-277</b> (277 volts) <b>-97</b> (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.
- 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.
- 30K Color temperature 3000°K instead.

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

- 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

- 13 Clear poly lens below lens. Photometric distribution is unaffected.
- 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.
- 46 Gasket between trim and lens.

- 70T Clear semi-specular SofTex™ (complete trim).
- 94 Custom color/finish. Specify. Consult factory.
- CF Custom color filter (Rosco). Specify.
- WA White acrylic (flat) diffuser instead; will produce wide flood distribution.

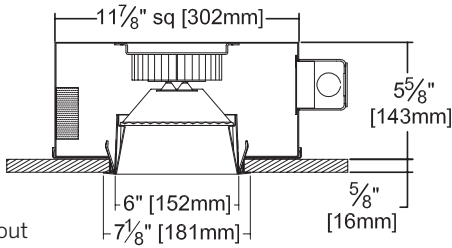
#### Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum.
- NAT Modified for natatorium use.
- 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.

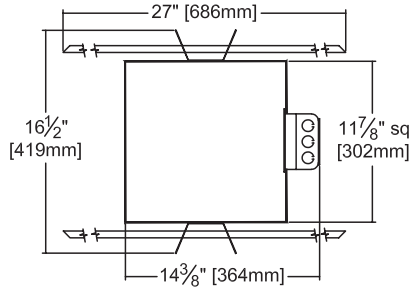
Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

\*\*Hours at 70% lumen maintenance

Dimensions



Ceiling Cut-out  
6 1/2" Dia.



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION 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, 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.

Detailed Photometry - Installed Fixture

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

Photometric testing done in accordance with IESNA LM-79

-2000L STANDARD (MFL)

Lumens: 2140  
Beam: ~48°  
SC: 0.8  
LPW: 84  
Efficiency: 84.4%  
ITL Test: 89244

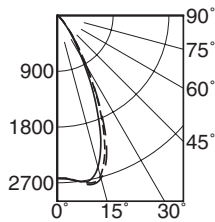


Total System Watts 25.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2628	2628	2628	2628	2628
5	2655	2661	2660	2660	2662
10	2680	2712	2720	2617	2532
15	1580	1631	1625	1458	1372
20	512	511	493	458	436
25	135	129	117	121	121
30	35	34	34	34	34
35	5	5	5	5	5
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	73.0	5.3
8	41.1	7.1
10	26.3	8.8
12	18.3	10.6
14	13.4	12.4
16	10.3	14.1



-2000L Option -SPT

Lumens: 2145  
Beam: ~20°  
SC: 0.3  
LPW: 84  
Effic: 84.6%  
ITL Test: 87941

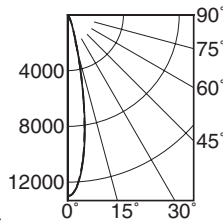


Total System Watts 25.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	12990	12990	12990	12990	12990
5	11163	11248	11186	11239	11258
10	2842	2880	2802	2798	2788
15	606	524	470	527	605
20	162	133	122	134	160
25	33	34	34	34	34
30	8	8	8	8	8
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	360.8	2.1
8	203.0	2.8
10	129.9	3.5
12	90.2	4.2
14	66.3	4.9
16	50.7	5.6



-2000L Option -NFL

Lumens: 1996  
Beam: ~32°  
SC: 0.6  
LPW: 78  
Effic: 78.7%  
ITL Test: 87942

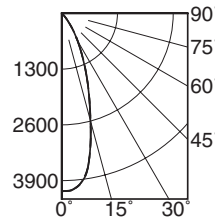


Total System Watts 25.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4149	4149	4149	4149	4149
5	4069	4059	4068	4060	4059
10	2603	2594	2598	2587	2588
15	1192	1188	1188	1184	1173
20	427	420	420	421	411
25	79	78	78	78	75
30	14	14	14	14	14
35	1	1	1	1	1
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	115.3	3.5
8	64.8	4.7
10	41.5	5.9
12	28.8	7.1
14	21.2	8.3
16	16.2	9.4



-2000L Option -WFL

Lumens: 1855  
Beam: ~61°  
SC: 1.2  
LPW: 72  
Effic: 73.2%  
ITL Test: 89246

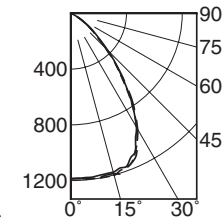


Total System Watts 25.7

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1186	1186	1186	1186	1186
5	1196	1190	1192	1188	1183
10	1203	1195	1190	1193	1179
15	1096	1103	1116	1095	1095
20	743	755	773	758	751
25	358	353	355	361	376
30	136	137	140	143	148
35	25	25	25	25	26
40	1	1	1	1	1
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	32.9	7.1
8	18.5	9.5
10	11.9	11.8
12	8.2	14.2
14	6.1	16.6
16	4.6	18.9



See following page for -1500L performance

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 2535 lumen (-2000L) 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



## Detailed Photometry - Installed Fixture

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

### LRR-06003-1500L PERFORMANCE

#### -1500L STANDARD (MFL)

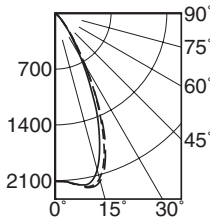
Lumens: 1707  
Beam: ~48°  
SC: 0.8  
LPW: 91  
Efficiency: 84.4%  
ITL Test: 89232



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	58.6	5.3
8	32.9	7.0
10	21.1	8.8
12	14.6	10.6
14	10.8	12.3
16	8.2	14.1



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	2108	2108	2108	2108	2108
5	2137	2135	2134	2133	2134
10	2146	2187	2180	2099	2030
15	1259	1297	1293	1169	1083
20	403	402	384	356	344
25	105	100	90	92	95
30	27	27	26	26	26
35	4	4	4	4	4
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

#### -1500L Option -SPT

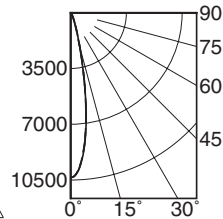
Lumens: 1706  
Beam: ~20°  
SC: 0.4  
LPW: 91  
Effic: 84.4%  
ITL Test: 87182



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	287.1	2.1
8	161.5	2.8
10	103.3	3.5
12	71.8	4.2
14	52.7	4.9
16	40.4	5.6



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	10334	10334	10334	10334	10334
5	8881	8948	8899	8941	8956
10	2261	2291	2229	2226	2218
15	482	417	374	419	481
20	129	106	97	107	127
25	26	27	27	27	27
30	6	6	6	6	6
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

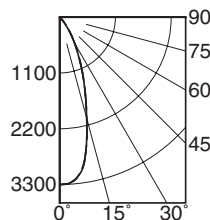
Lumens: 1588  
Beam: ~33°  
SC: 0.6  
LPW: 85  
Effic: 78.5%  
ITL Test: 87934



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	91.7	3.5
8	51.6	4.7
10	33.0	5.9
12	22.9	7.1
14	16.8	8.3
16	12.9	9.4



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	2419	2419	2419	2419	2419
5	2429	2437	2448	2451	2444
10	2341	2453	2516	2381	2248
15	1169	1247	1272	1103	993
20	279	289	271	259	238
25	70	67	58	63	63
30	11	11	10	10	10
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

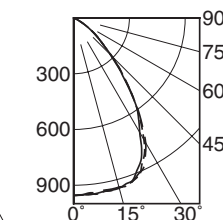
Lumens: 1471  
Beam: ~61°  
SC: 1.2  
LPW: 79  
Effic: 72.7%  
ITL Test: 89235



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	26.5	7.0
8	14.9	9.4
10	9.6	11.7
12	6.6	14.1
14	4.9	16.4
16	3.7	18.7



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	955	955	955	955	955
5	950	945	945	951	955
10	942	954	943	948	948
15	869	882	890	865	853
20	595	603	605	593	594
25	292	281	279	284	289
30	116	110	112	112	113
35	20	20	20	20	20
40	1	1	1	1	1
45	0	0	0	0	0
90	0	0	0	0	0

LUMEN SERIES	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
-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).

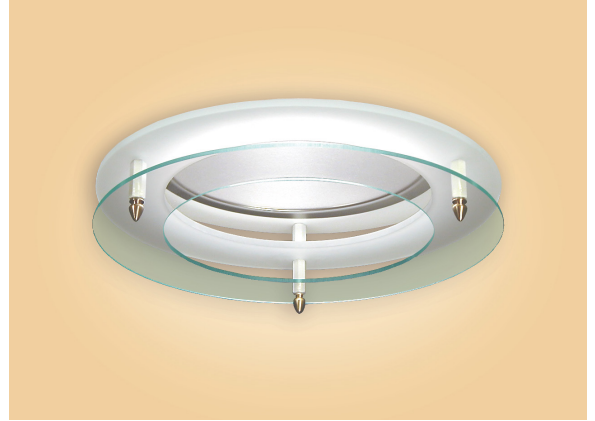
▲ Cone of Light Key  
Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

# 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

# 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-06003-2000L-120-30K-NFL-33-GLM-1L-FRR-ROF-SIF-ROS-SIS)

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



Glass (-GLM)



Acrylic (-ACM)

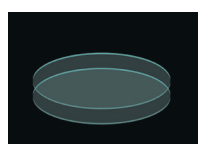


Custom (-CUM)

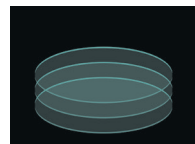
**2. # of Rings**  
(choose one)



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

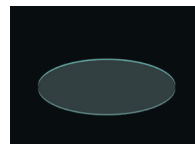
**3. Ring Design**  
(choose one)



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

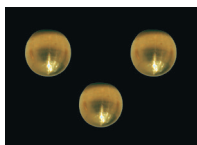


Frosted Center (-FCR)



Frosted Disk (-FDR)

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



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

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



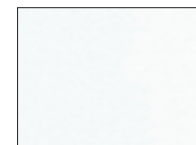
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

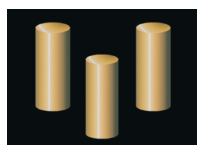


White (-WHF)

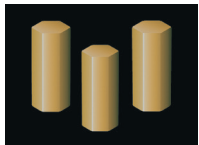


Custom (-CUF)

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



Round (-ROS)



Hexagonal (-HOS)

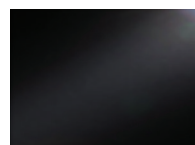
**7. Standoff Color**  
(choose one)



Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)