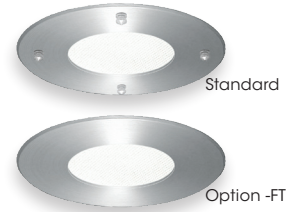


CATALOG #	TYPE
JOB NAME	VOLTAGE

## Porthole 4" Downlight • LED

Up to 90,000 Hour Life • Air Tight Optional • Type IC  
 10% Dimming • 2 Distributions • 5 CCT • 3-Step Binning  
 LM-80 Qualified • LM-79 Certified Photometry • Wet Location

**LRR-04017-2000L**  
**LRR-04017-1500L**  
**LRR-04017-1000L**



### 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: -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%)**

#### Porthole Trim with Brushed Nickel Finish

- Cast aluminum, brushed satin nickel finish porthole flat trim and (4) silver knurled finials with frosted prismatic tempered spread lens.
- Finial finish will match trim finish unless otherwise specified.**
- Low brightness reflector above trim.

#### 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 ½" and ¾" knockouts.

#### Installation

- Recess indoor or outdoor.

- Accommodates ceilings up to 1-1/8" 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.
- 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-04017-2000L-120-30K-WFL</b>
Product Number	Voltage	Options	
LRR-04017-2000L LRR-04017-1500L LRR-04017-1000L	-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.
- 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

- WFL Wide flood distribution. (0.8 SC)

#### Lenses - Mounted in Porthole Trim

- CF Custom color filter (Rosco). Specify.
- WA White acrylic (flat) diffuser instead; will produce wide flood distribution.

#### Porthole Trims

- 30T White enamel (complete trim).
- 32 White oversize trim ring. Specify O.D.
- 33 Decorative Glow Ring; see last page for details.
- 35T Silver enamel (complete trim).
- 37T Dark bronze enamel (complete trim).
- 38T Black enamel (complete trim).
- 45 Gasket between trim flange and ceiling.
- 94 Custom color/finish. Specify. Consult factory.
- BLF Black finial finish.
- BRF Brass finial finish.
- FT Flat trim (without finials) brushed nickel unless

- otherwise specified.
- COF Cone shaped finials. Silver finish standard or select optional finish.
- CUF Custom color finial finish.
- DF Electrically isolated "dead front" gasketed trim.
- ROF Round shaped finials. Silver finish standard or select optional finish.
- WHF White finial finish.

**Final finish will match trim finish unless otherwise specified**

#### Other

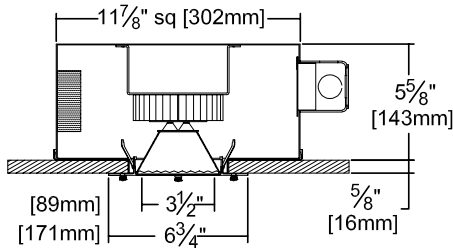
- 79 Collar for ceilings up to 2<sup>5</sup>/<sub>8</sub>" or consult factory.
- 99 Special modification. Consult factory.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum.
- FS Single in-line fuse. Not for use with Option -EI.
- RH Residential mounting hardware instead. Suitable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

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

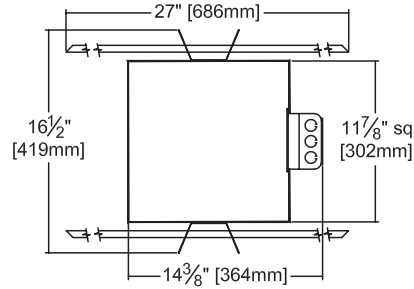
\*\*Hours at 70% lumen maintenance

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

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

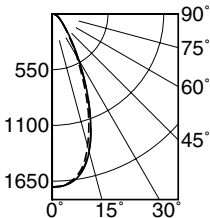
-1500L STANDARD (MFL)

Lumens: 1429  
Beam: ~41°  
SC: 0.7  
LPW: 68  
Efficiency: 70.7%  
ITL Test: 87210



Total System Watts 21.0

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1707	1707	1707	1707	1707
5	1682	1684	1687	1689	1689
10	1348	1370	1401	1407	1406
15	720	744	780	785	785
20	321	325	339	343	344
25	158	159	163	164	165
30	94	94	95	95	95
35	60	60	61	60	60
40	35	35	36	35	35
45	11	11	11	11	11
90	0	0	0	0	0



Cone of Light ▲

Dist.	FC	Dia.
6	47.4	4.5
8	26.7	6.0
10	17.1	7.6
12	11.9	9.1
14	8.7	10.6
16	6.7	12.1

-1500L Option -WFL

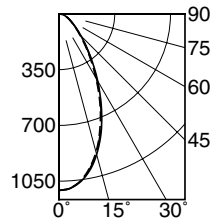
Lumens: 1214  
Beam: ~45°  
SC: 0.8  
LPW: 58  
Efficiency: 60.0%  
ITL Test: 87211

Total System Watts 21.0

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1108	1108	1108	1108	1108
5	1084	1085	1086	1087	1086
10	898	899	906	911	913
15	606	609	617	624	626
20	345	349	355	360	363
25	185	188	192	194	195
30	104	105	107	108	108
35	62	62	63	63	63
40	34	34	35	34	34
45	10	10	10	10	10
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	30.8	4.9
8	17.3	6.6
10	11.1	8.2
12	7.7	9.8
14	5.7	11.5
16	4.3	13.1



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

Dist. (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

JOB NAME

TYPE

VOLTAGE

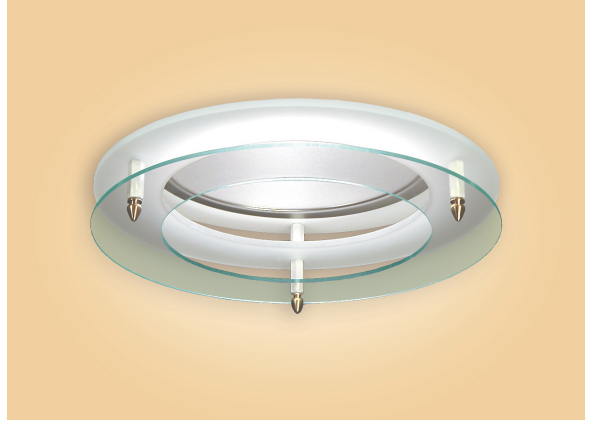
CATALOG NUMBER

APPROVAL STAMP



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

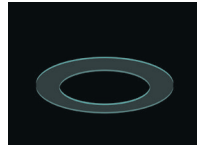
# Kirlin Classic Glow Rings: Option -33 for Latitudes LED Lighting



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-04017-2000L-120-30K-WFL-33-GLM-1L-FRR-ROF-SIF-ROS-SIS)**

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



Glass (-GLM)



Acrylic (-ACM)

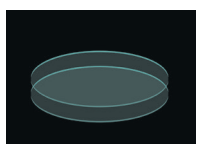


Custom (-CUM)

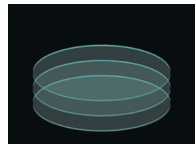
**2. # of Rings  
(choose one)**



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

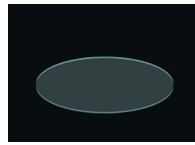
**3. Ring Design  
(choose one)**



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

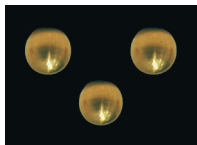


Frosted Center (-FCR)



Frosted Disk (-FDR)

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



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

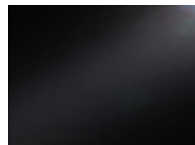
**5. Finial Color  
(choose one)**



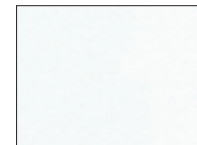
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

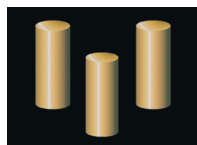


White (-WHF)

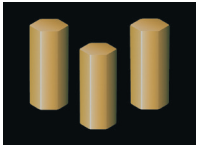


Custom (-CUF)

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



Round (-ROS)



Hexagonal (-HOS)

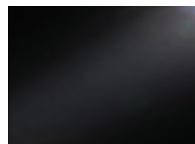
**7. Standoff Color  
(choose one)**



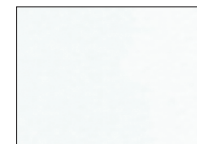
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)