

CATALOG #	TYPE
JOB NAME	VOLTAGE

LRR-04400-2500L

Open Appearance 4" Downlight • LED

Up to 60,000 Hour Life • Wet Location
10% Dimming • 3 Distributions • 5 CCT • 3-Step Binning
LM-80 Qualified • LM-79 Certified



Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
- 2500L: 2500 nominal lumens (35W).
- Distribution: MFL standard.
Optional: -SPT or -NFL.
- Color temperature: 3500°K standard.
Optional: -27K, -30K, -41K or -50K.
- CRI: 80+ standard. Optional: -HC (90+).
- 60,000 hour life (L70).
- Fully sustainable: removable for servicing.

Thermal Protection: SPECIFY VOLTAGE

- Thermal protector for insulation detection per UL/NEC. Must specify input voltage.

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

- 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 ½" and ¾" 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.
- Through-branch conductors (4 #12 AWG 90°C).

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-04400-2500L-120-30K-NFL
Product Number	Voltage	Options	
LRR-04400-2500L	-120 (120 volts) -277 (277 volts) -97 (Specify other)	See "Options" below	

Options

Input Power: SPECIFY

- 120 120V (50-60Hz) input for thermal protector.
- 277 277V (50-60Hz) input for thermal protector.
- 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.
- D40 -40°C driver with 0-10V 10% dimming instead.
- ECO Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory.
- 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 Temperature (CCT)

- 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

- SPT Spot distribution.
- NFL Narrow flood distribution.

Trim

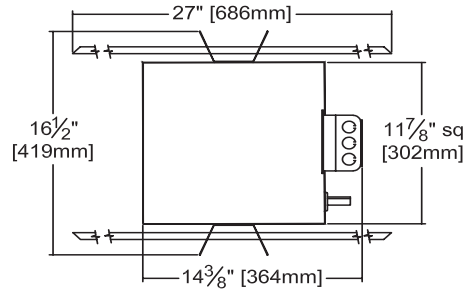
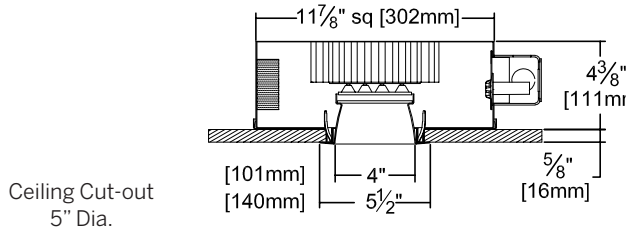
- 23 Frosted microprismatic lens instead.
- 30T White enamel (complete trim).
- 30F White enamel (flange only).
- 32 White oversize trim ring. Specify O.D.
- 33 Decorative Glow Ring; see last page for details.
- 35T Silver enamel (complete trim).
- 35F Silver enamel (flange only).

- 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.
- 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.
- NAT Modified for natatorium use.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14½" to 25½" with ½" vertical adjustability.

Dimensions



Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

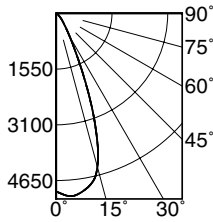
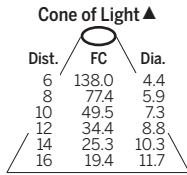
Photometry from UL Verification Services, Allentown, PA

-2500L STANDARD (MFL)

Lumens: 2838
Beam: ~37°
SC: 0.7
LPW: 78
Efficiency: 76.4%
UL Test: 1259172



Total System Watts 36.4



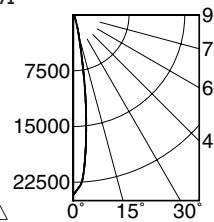
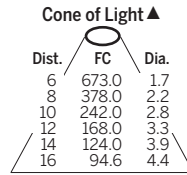
	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	4954	4954	4954	4954	4954
5	5101	5101	5101	5101	5101
15	4419	4419	4419	4419	4419
25	1539	1539	1539	1539	1539
35	411	411	411	411	411
45	154	154	154	154	154
55	40	40	40	40	40
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

-2500L Option -SPT

Lumens: 2858
Beam: ~14°
SC: 0.3
LPW: 79
Efficiency: 76.9%
UL Test: 1259171



Total System Watts 36.4



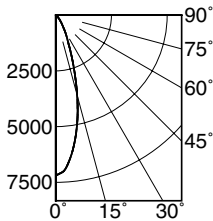
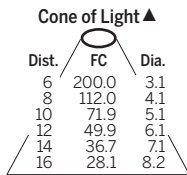
	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	24210	24210	24210	24210	24210
5	18710	18710	18710	18710	18710
15	2898	2898	2898	2898	2898
25	717	717	717	717	717
35	246	246	246	246	246
45	87	87	87	87	87
55	26	26	26	26	26
65	2	2	2	2	2
75	2	2	2	2	2
85	1	1	1	1	1
90	1	1	1	1	1

-2500L Option -NFL

Lumens: 2726
Beam: ~21°
SC: 0.5
LPW: 75
Efficiency: 73.3%
UL Test: 1264615



Total System Watts 36.4



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	7192	7192	7192	7192	7192
5	6628	6628	6628	6628	6628
15	3716	3716	3716	3716	3716
25	1292	1292	1292	1292	1292
35	488	488	488	488	488
45	173	173	173	173	173
55	57	57	57	57	57
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
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 UL Verification Services (UL) where photometry was measured from 3717 lumen (~2500L) light engines (within the established tolerance).

▲ Cone of Light Key
Dist. Distance (Ft.) from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC
Dia. (in ft.) shown is where FC value is half the FC at nadir.

SUBMITTAL DATA

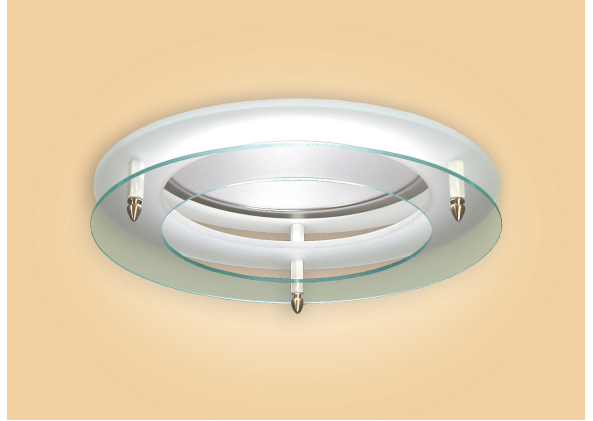
APPROVAL STAMP

JOB NAME _____
TYPE _____ VOLTAGE _____
CATALOG NUMBER _____



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, 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.

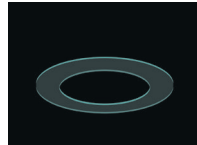
Kirlin Classic Glow Rings: Option -33 for Latitudes LED Lighting



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-04400-2500L-120-30K-NFL-33-GLM-1L-FRR-ROF-SIF-ROS-SIS)

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



Glass (-GLM)

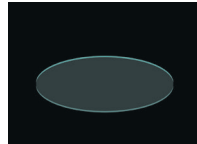


Acrylic (-ACM)

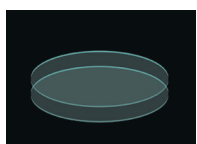


Custom (-CUM)

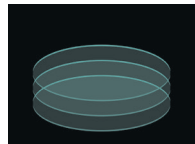
**2. # of Rings
(choose one)**



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

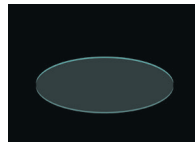
**3. Ring Design
(choose one)**



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

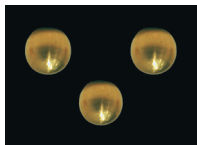


Frosted Center (-FCR)



Frosted Disk (-FDR)

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



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

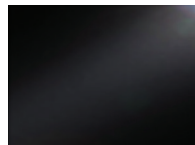
**5. Finial Color
(choose one)**



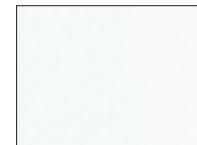
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

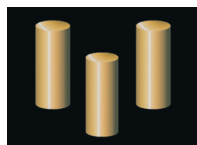


White (-WHF)

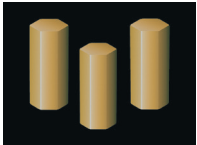


Custom (-CUF)

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



Round (-ROS)



Hexagonal (-HOS)

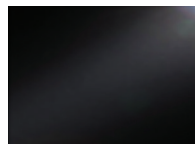
**7. Standoff Color
(choose one)**



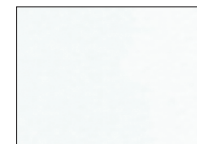
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)