KIRLIN
ARCHITECTURAL LIGHTING

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

Latitudes Series

LRR-04005

Shallow Lensed 4" Downlight • LED

Up to 90,000 Hour Life • Type IC • AirTight Optional
Wet Listed • LM-79 Certified • LM-80 Qualified

Specifications

Delivered System Performance
- Nominal Lumens: **Must Specify**
  - Type IC
  - **-2000L**
  - **-1500L**
  - **-1000L**
- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 90,000 hour life (L70**)

Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL
- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR 10% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

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

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

Outlet Box (Galvanized)
- UL Listed, 14GA, insulated, removable cover
- ½" and ¾" knockouts

Installation & Hardware
- Indoor/outdoor in ceilings up to 1⅛" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada) Compliance
- UL Listed: 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

Natatorium *See Option -NAT* | Made in the USA *BAA Compliant* | FCC Part 15 Certified | UL Listed Wet, Damp, Dry

Options and Ordering Configuration

(Example: LRR-04005-2000L-120-NFL-30K-30F-RH-AT)

Must Specify					Optional			
Model	**Lumens**	**Volts**	**Beam**	**CCT† & CRI**	**Driver Options**	**Emergency Options**	**Trim Options**	**Other Options**
LRR-04005								
	-2000L **-1500L** **-1000L**	**-120** **-277** **-97†:** Other Voltage	**(Blank):** MFL **-NFL** **-MFL** **-WFL**	**(Blank):** 3500°K, 80+ CRI **80+ CRI*** **-27K:** 2700°K **-30K:** 3000°K **-35K:** 3500°K **-41K:** 4100°K **-50K:** 5000°K ***Note:** Lumen Factor = 0.93 for -27K **90+ CRI**** **-27K-HC:** 2700°K **-30K-HC:** 3000°K **-35K-HC:** 3500°K **-41K-HC:** 4100°K **-50K-HC:** 5000°K ****Note:** Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult factory	**(Blank):** Standard 0-10V CCR 10% dim **-D1†:** 0-10V 1.0% dim **-D2†:** 0-10V 0.1% dim **-D3†:** DALI 1.0% dim **-D4†:** DALI 100-0.1% dim **-D5†:** DMX512A 0.1% dim **-D40:** -40°C (-40°F) driver; 0-10V 10% dim	**(Blank):** None **-EI:** Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97 **-EM:** Internal emergency battery pack; Delivers 500 lumens; Run time: 90+ minutes **-ERH:** Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	**(Blank):** Seamless tapered self-flanged trim with white finish; microprismatic lens **Trim Finishes** **-30F:** White enamel flange (flange only) **-35F:** Silver enamel flange (flange only) **-35T:** Silver enamel trim (complete trim) **-37F:** Dark bronze enamel flange (flange only) **-37T:** Dark bronze enamel trim (complete trim) **-38F:** Black enamel flange (flange only) **-38T:** Black enamel trim (complete trim) **-62T:** Clear specular (complete trim) **-70T:** Clear semi-specular SofTex™ trim **-94:** Custom color; consult factory **Other Trim Features** **-13:** Clear poly lens. Photometric distribution is unaffected **-23:** Frosted microprismatic lens **-32:** White trim extender, specify OD **-33:** Decorative Glow Ring; see last page for details **-45:** Gasket between trim & ceiling **-46:** Gasket between trim & lens **-CF:** Custom color filter (Rosco); Specify **-DF:** Electrically isolated trim **-WA:** White acrylic (flat) diffuser instead; will produce wide flood distribution	**(Blank):** None **Mounting** **-79:** Extension collar for ceilings up to 2" thick **-RH:** Joist mounting hardware instead **Other Options** **-99:** Special modification; consult factory **-AT:** Air Tight version; Meets ASTM E283 airflow restriction of 2CFM max **-FS:** Fused primary; One per fixture; N/A for option -EI **-NAT:** Modified for natatorium use

Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	70,000 hours

**Hours at 70% lumen maintenance

†Consult factory

†Consult factory for use with -2000L

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

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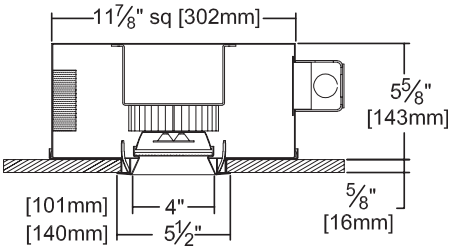
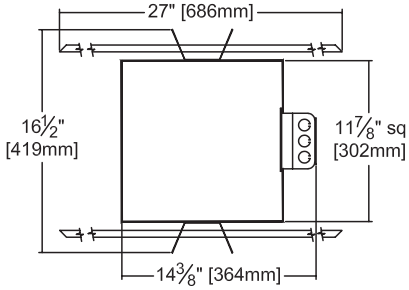
Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.257	28.7	0.92
-1500L	1.00	21.0	1.00
-1000L	0.579	10.4	1.17

Dimensions



Ceiling Cut-out
5" Dia.



** See notes on page 1 for additional info on Lumen Factors*

Photometry - Installed Complete Fixture

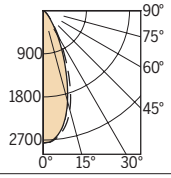
LM-79 IESNA Certified Photometry from Independent Lab

-1500L-MFL

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

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



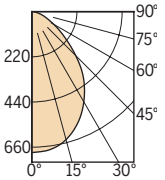
Nominal Lumens	Actual Lumens	Actual LPW
2000L	2118	73.8
1500L	1685	80.2
1000L	976	93.9

-1500L-WFL

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

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



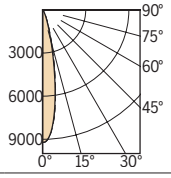
Nominal Lumens	Actual Lumens	Actual LPW
2000L	1713	59.7
1500L	1363	64.9
1000L	789	76.0

-1500L-NFL

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

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



Nominal Lumens	Actual Lumens	Actual LPW
2000L	2263	78.8
1500L	1800	85.7
1000L	1042	100.3

LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

▲ 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

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTIED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., IN NORMAL USE. Manufacturer at his 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 foregoing, 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.

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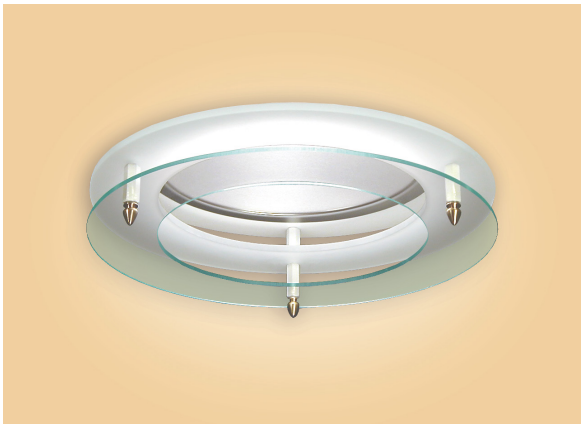
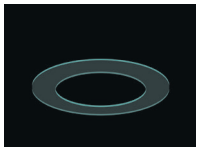
Classic Glow Rings: Option -33 for Latitudes



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**)

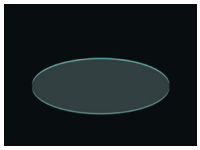
1. Ring Material (choose one)

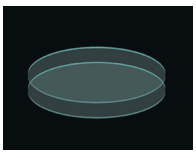

Glass (-GLM)

Acrylic (-ACM)

Custom (-CUM)

2. # of Rings (choose one)

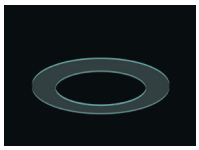

1 Ring (1L)


2 Rings (-2L)

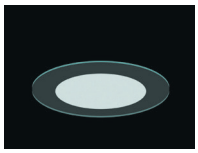
3 Rings (-3L)

3. Ring Design (choose one)

Frosted Ring (-FRR)

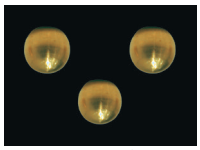

Clear Ring (-CRR)

Solid Disk (-SDR)

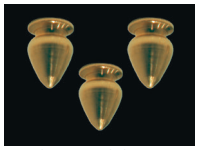

Frosted Center (-FCR)

Frosted Disk (-FDR)

4. Finial Design (choose one)


Round (-ROF)

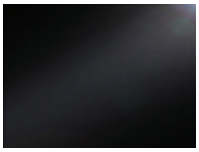
Knurled (-KNF)


Cone (-COF)

5. Finial Color (choose one)

Brass (-BRF)

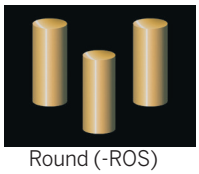
Silver (-SIF)

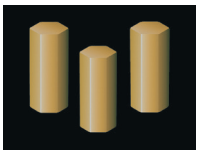

Black (-BLF)

White (-WHF)

Custom (-CUF)

6.Standoff Design (choose one)

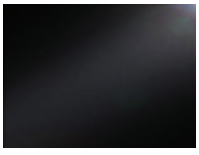

Round (-ROS)


Hexagonal (-HOS)

7.Standoff Color (choose one)

Brass (-BRS)

Silver (-SIS)


Black (-BLS)

White (-WHS)

Custom (-CFS)

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