

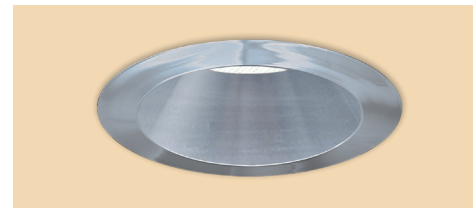
CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Latitudes Series

Open Appearance 4" Downlight • LED

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

LRR-04002



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 Rated Life (L70**)

Thermal Management System

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

LED Driver - INTERNAL or REMOTE

- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- Remote driver in mini cabinet available, see option -REM
- 0-10V CCR 10% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

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 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 1½" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

Quick Ship Eligible

- Eligible for Quick Ship of 2 weeks or less
- Quantity requirements: 10 - 100 pieces
- Requires choosing options in **red** on the next page and including the -QS option code

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

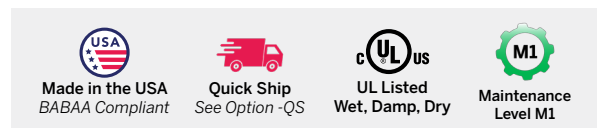
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

- Complete standard fixture

Maintenance and Future-Proofing

- M1 maintenance level standard- Phillips head screwdriver, and/or a basic wrench needed
- Lighthead, driver replaceable through the aperture of the fixture with quick-connections, no soldering required
- Backed by Kirlin's [25-Year Legacy Support Guarantee](#)



Available Maintenance Levels

Level	Option	Tools Required to Service LED Module and Driver
	Standard	 Phillips head screwdriver, and/or a basic wrench needed

Options and Ordering Configuration

(Example: LRR-04002-1500L-120-MFL-35K-30T-RH-AT)

Must Specify					Optional			
Model	Lumens	Volts	Beam	CCT† & CRI	Driver Options	Emergency Options	Trim Options	Other Options
LRR-04002								
	-2000L -1500L -1000L	-120 -277 -97†: Other Voltage	(Blank): MFL -SPT -NFL -MFL -WFL	(Blank): 3500°K, 80+ CRI 80+ CRI* -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4000°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: 4000°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 -REM: Driver remote mounted in mini-cabinet; see next page for driver ordering - MUST BE ORDERED SEPARATELY †Consult factory for use with -2000L	(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): Standard clear specular cone; microprismatic lens Trim Finishes -30F: White enamel flange (flange only) -30T: White enamel trim (complete trim) -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) -70T: Clear semi-specular SofTex™ trim -94: Custom color; consult factory Other Trim Features -23: Frosted microprismatic lens -32: White trim extender, specify OD -33: Decorative Glow Ring; see last page for details -45: Gasket between trim & ceiling -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 -AWN: Athena Wireless Node; N/A for Dimming Options D5, -D40 -FS: Fused primary; One per fixture; N/A for option -EI -QS: Quick Ship; Options must be only red items; Quantities of 10-100 *Note: For other integrated control solutions, such as nLight, contact factory
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						

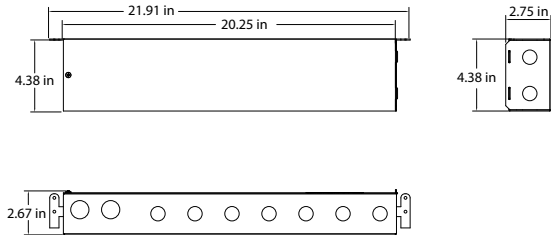
Remote Mini-Cabinet Options and Ordering Configuration

(Example: REM-SWCAB-1400B-2-D2-EMI)

Must Specify				Optional
Model	Driver Current	Driver Count	Dimming	Other Options
REM-SWCAB				
	50 Watt Drivers -0700A: 700mA 50W driver; powers (2) 1000L fixtures -1400A: 1400mA 50W driver; powers (2) 1500L fixtures -1750A: 1750mA 50W driver; powers (1) 2000L fixture	-1: 1 driver -2: 2 drivers; N/A on -1400C driver option	-D0: 0-10V 10% dim -D1: 0-10V 1.0% dim -D2: 0-10V 0.1% dim -D3: DALI 1.0% dim; consult factory for -1750A option -D4: DALI 100-0.1% dim; consult factory for -1750A option -D5: DMX512A 0% dimming instead; only available with -0700A and -1400A options	(Blank): None -EI5: Remote emergency micro-inverter: 50W max load; 90+ minutes run time -EMI: Remote emergency mini-inverter: 125W max load; 90+ minutes run time
	75 Watt Drivers -0700B: 700mA 75W driver; powers (3) 1000L fixtures -1400B: 1400mA 75W driver; powers (3) 1500L fixtures -1750B: 1750mA 75W driver; powers (2) 2000L fixtures			
	100 Watt Drivers -1400C: 1400mA 100W driver; powers (4) 1500L fixtures			

Lumens	Remote Mini-Cabinet	Driver Wattage	Maximum Capacity	
			1 Driver in -REM Cabinet	2 Drivers in -REM Cabinet
-1000L	REM-SWCAB-0700A	50W	Qty 2: 1000L Luminaires, wired in series	Qty 4: 1000L Luminaires (2 per driver, wired in series)
	REM-SWCAB-0700B	75W	Qty 3: 1000L Luminaires, wired in series	Qty 6: 1000L Luminaires (3 per driver, wired in series)
-1500L	REM-SWCAB-1400A	50W	Qty 2: 1500L Luminaires, wired in series	Qty 4: 1500L Luminaires (2 per driver, wired in series)
	REM-SWCAB-1400B	75W	Qty 3: 1500L Luminaires, wired in series	Qty 6: 1500L Luminaires (3 per driver, wired in series)
	REM-SWCAB-1400C	100W	Qty 4: 1500L Luminaires, wired in series	N/A
-2000L	REM-SWCAB-1750A	50W	Qty 1: 2000L Luminaire	Qty 2: 2000L Luminaire (1 per driver, wired in series)
	REM-SWCAB-1750B	75W	Qty 2: 2000L Luminaires, wired in series	Qty 4: 2000L Luminaires (2 per driver, wired in series)

Dimensions

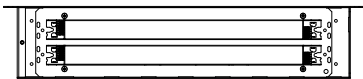


-REM Features

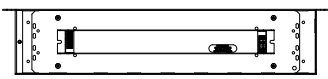
- Drivers can be mounted up to 250' away from fixtures
- Remote mini-cabinets are plenum rated and can be mounted to the ceiling grid
- Low-voltage cabling from driver to fixture(s)
- 1/2" and 3/4" knockouts

50W and 75W Drivers

Exact dimensions of drivers inside the box may vary based on options chosen.



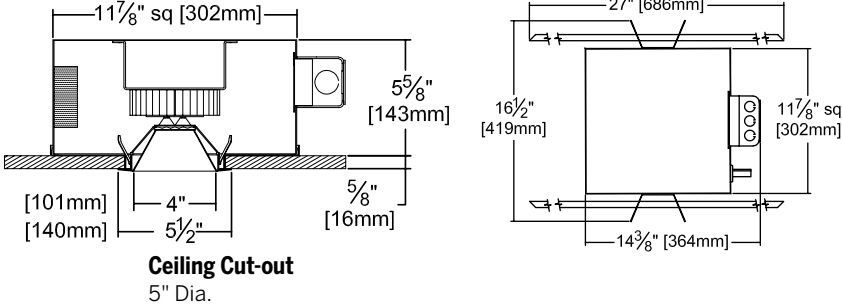
100W Drivers



Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.257	28.6	0.92
-1500L	1.00	20.9	1.00
-1000L	.579	10.3	1.17

Dimensions

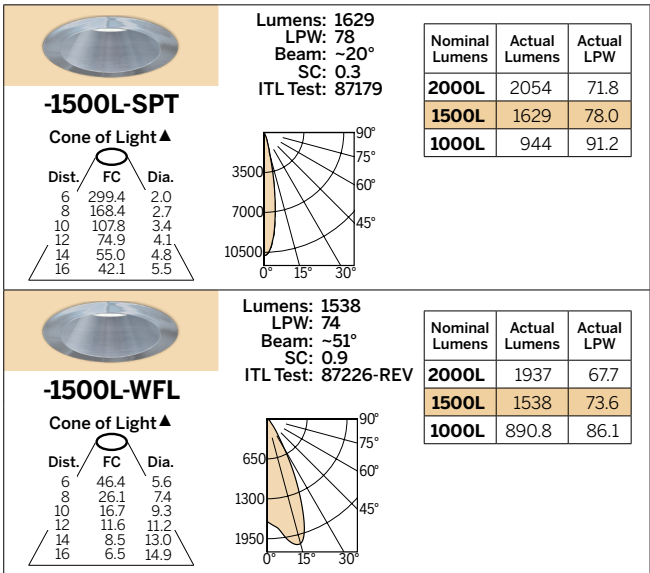
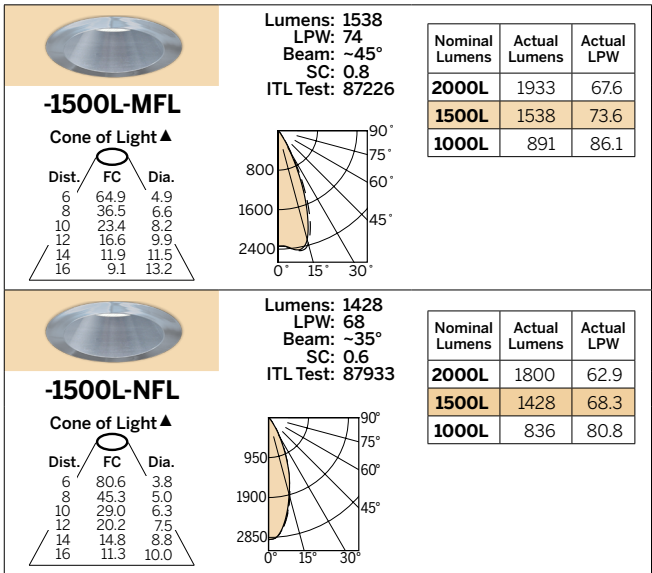


Ceiling Cut-out
5" Dia.

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

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab



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

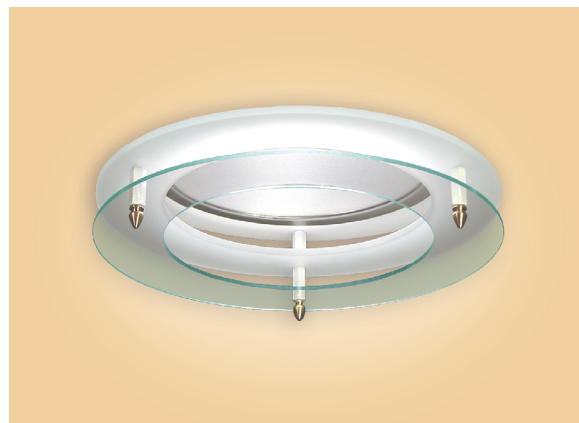
▲ Cone of Light Key
Dist. Distance (Ft.) from fixture
Dia. (in ft.) shown is where FC
value is half the FC at nadir.
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED 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 failure at the offices of manufacturer within the 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.

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-04002-2000L-120-30K-NFL-**33**-GLM-1L-FRR-ROF-SIF-ROS-SIS)



1. Ring Material
(choose one)



Glass (-GLM)

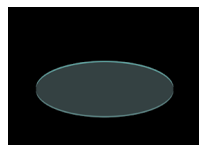


Acrylic (-ACM)

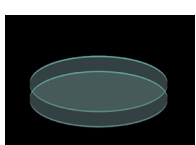


Custom (-CUM)

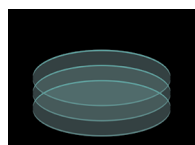
2. # of Rings
(choose one)



1 Ring (1L)



2 Rings (-2L)



3 Rings (-3L)

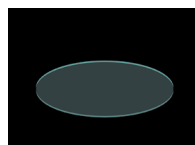
3. Ring Design
(choose one)



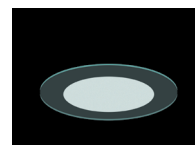
Frosted Ring (-FRR)



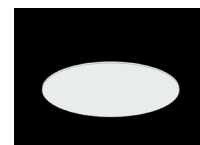
Clear Ring (-CRR)



Solid Disk (-SDR)

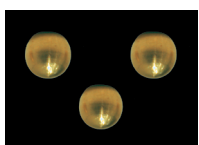


Frosted Center (-FCR)



Frosted Disk (-FDR)

4. Finial Design
(choose one)



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

5. Finial Color
(choose one)



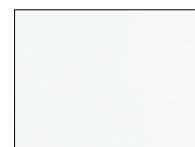
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

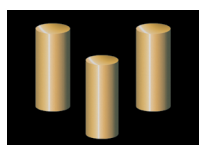


White (-WHF)

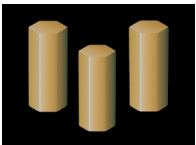


Custom (-CUF)

6. Standoff Design
(choose one)



Round (-ROS)



Hexagonal (-HOS)

7. Standoff Color
(choose one)



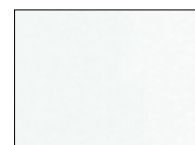
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)