KIRLIN
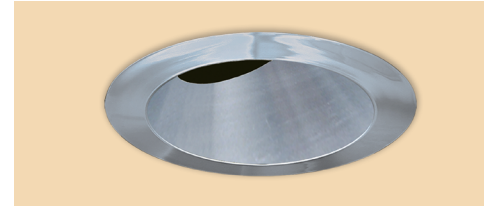## ARCHITECTURAL LIGHTING

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

Latitudes Series

Open Appearance 4" Adjustable • LED
Up to 90,000 Hour Rated Life • Type IC • AirTight Optional
Wet Listed • LM-79 Certified • LM-80 Qualified

LRR-04022

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**)

Center Beam Optics
- Self-aligns with trim for optimal performance
- Hot aiming by hand
- Tilts from 0° to 45° and locks in place
- Rotates full 360° and locks in place
- Accommodates sloped ceilings up to 45°

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
- 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 1⅛" thick
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada) Compliance
- 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

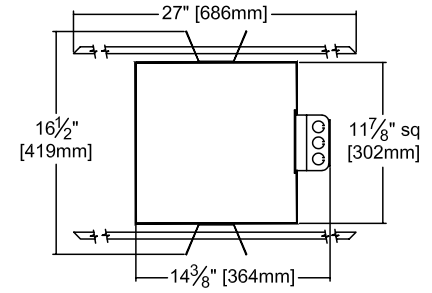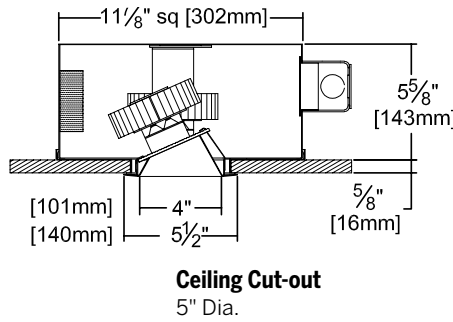### FIVE YEAR Limited Warranty
- Complete standard fixture

Made in the USA *BABAA Compliant* | **FCC Part 15 Certified** | **UL Listed** Wet, Damp, Dry

Options and Ordering Configuration

(Example: LRR-04022-1500L-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): NFL -SPT -NFL -MFL	(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 †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 **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** -32: White trim extender, specify OD -45: Gasket between trim & ceiling -CF: Custom color filter (Rosco); Specify -DF: Electrically isolated trim -WA: White acrylic lens, will produce wide flood distribution	(Blank): None **Mounting** -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 -DL: Downlight cone instead. Clear specular finish standard or add optional trim selection -FS: Fused primary; One per fixture; N/A for option -EI ***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

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

Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.257	28.5	0.92
-1500L	1.00	20.8	1.00
-1000L	.579	10.3	1.17

Dimensions

11⅛" sq [302mm]

5⅝" [143mm]

[101mm] [140mm]

4"
5½"

⅝" [16mm]

Ceiling Cut-out
5" Dia.
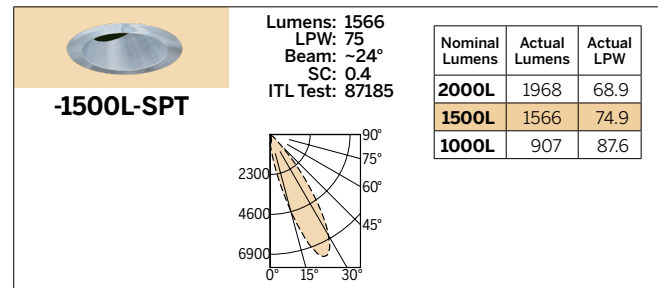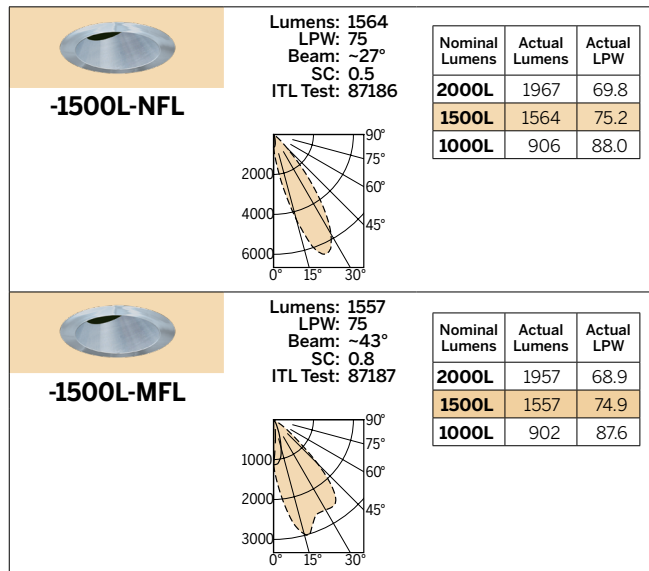
27" [686mm]

16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

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

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

-1500L-NFL

Lumens: 1564
LPW: 75
Beam: ~27°
SC: 0.5
ITL Test: 87186

Nominal Lumens	Actual Lumens	Actual LPW
2000L	1967	69.8
1500L	1564	75.2
1000L	906	88.0

-1500L-MFL

Lumens: 1557
LPW: 75
Beam: ~43°
SC: 0.8
ITL Test: 87187

Nominal Lumens	Actual Lumens	Actual LPW
2000L	1957	68.9
1500L	1557	74.9
1000L	902	87.6

-1500L-SPT

Lumens: 1566
LPW: 75
Beam: ~24°
SC: 0.4
ITL Test: 87185

Nominal Lumens	Actual Lumens	Actual LPW
2000L	1968	68.9
1500L	1566	74.9
1000L	907	87.6

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