KIRLIN
ARCHITECTURAL LIGHTING

CATALOG #		TYPE	
JOB NAME		WATTAGE	VOLTAGE

Latitudes Series

LRS-04046

Super Shallow Lensed 4" Downlight • LED
Up to 90,000 Hour Rated Life • Type IC
Wet Listed • LM-79 Certified • LM-80 Qualified

Specifications

Delivered System Performance
- Nominal Lumens: **Must Specify**
  - Type IC
  - **-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
- 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
- Tapered aluminum all white smooth self-flanged trim (field paintable)
- Regressed tempered prismatic spread 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
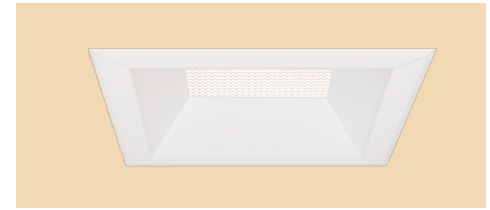- Built-in plaster flange

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

Installation & Hardware
- Indoor/outdoor in ceilings up to 1¼" 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

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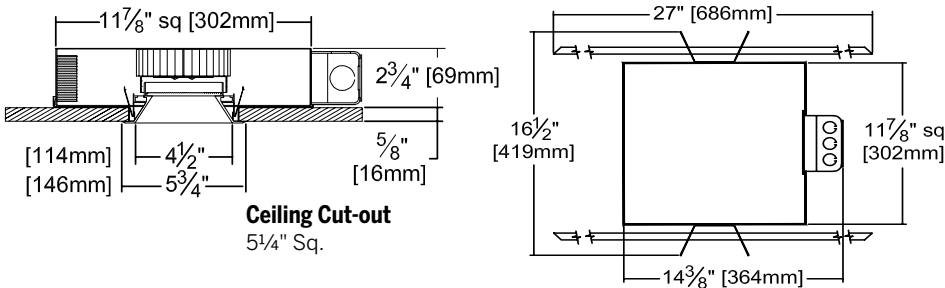
Options and Ordering Configuration

(Example: LRS-04046-1500L-120-NFL-30K-35T-79)

Must Specify					Optional			
Model	**Lumens**	**Volts**	**Beam**	**CCT† & CRI**	**Driver Options**	**Emergency Options**	**Trim Options**	**Other Options**
LRS-04046								
	-1500L **-1000L**	**-120** **-277** **-97†:** Other Voltage	**(Blank):** MFL **-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 **-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 **-ERH:** Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	**(Blank):** Standard tapered aluminum all white smooth self-flanged trim; regressed tempered prismatic spread lens **Trim Finishes** **-35T:** Silver enamel trim **-37T:** Dark bronze enamel trim **-38T:** Black enamel trim **-94:** Custom color; consult factory **Other Trim Features** **-23:** Frosted microprismatic lens **-32:** White trim extender, specify OD **-45:** Gasket between trim & ceiling **-46:** Gasket between trim & lens **-DF:** Electrically isolated "dead front" gasketed trim **-WA:** White acrylic lens; will produce wide flood distribution	**(Blank):** None **Mounting** **-79:** Extension collar for ceilings up to 2" thick **Other Options** **-99:** Special modification; consult factory **-AWN:** Athena Wireless Node; N/A for Dimming Option -D40 **-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

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Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-2000L	1.257	29.0	0.92
-1500L	1.00	21.2	1.00
-1000L	0.579	10.5	1.17

Dimensions

11⅞" sq [302mm]

2¾" [69mm]

[114mm]
[146mm]

4½"
5¾"

⅝"
[16mm]

Ceiling Cut-out
5¼" Sq.

27" [686mm]

16½"
[419mm]

11⅞" sq
[302mm]

14⅜" [364mm]

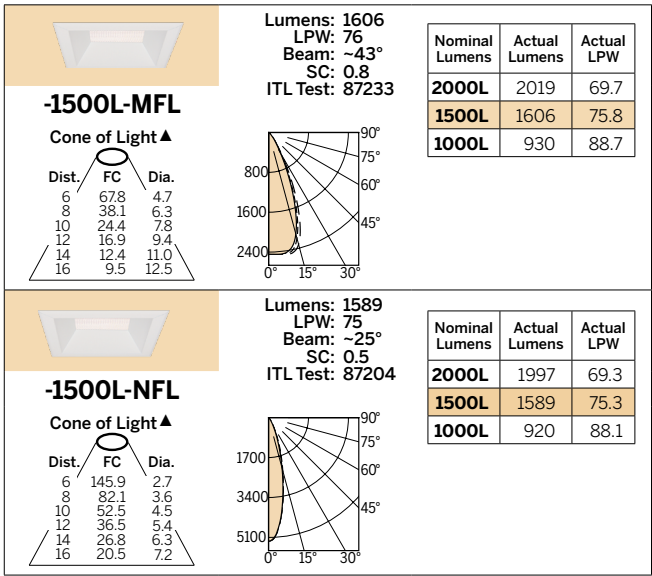** See notes on page 1 for additional info on Lumen Factors*

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

-1500L-MFL

Lumens: 1606
LPW: 76
Beam: ~43°
SC: 0.8
ITL Test: 87233

Nominal Lumens	Actual Lumens	Actual LPW
2000L	2019	69.7
1500L	1606	75.8
1000L	930	88.7

Cone of Light ▲

Dist.	FC	Dia.
6	67.8	4.7
8	38.1	6.3
10	24.4	7.8
12	16.9	9.4
14	12.4	11.0
16	9.5	12.5

-1500L-NFL

Lumens: 1589
LPW: 75
Beam: ~25°
SC: 0.5
ITL Test: 87204

Nominal Lumens	Actual Lumens	Actual LPW
2000L	1997	69.3
1500L	1589	75.3
1000L	920	88.1

Cone of Light ▲

Dist.	FC	Dia.
6	145.9	2.7
8	82.1	3.6
10	52.5	4.5
12	36.5	5.4
14	26.8	6.3
16	20.5	7.2

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

LATITUDES
NOVEMBER 2024

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