



R Series - 2RLS

2" Recessed Lighting Linear System



OVERVIEW

Lumen Range	391 - 1,040
CCT	2700K, 3000K, 3500K, 4000K, 5000K
Wattage Range	16 - 22
Efficacy Range (LPW)	95 -118
Weight lbs (kg)	3 lbs/ft (1.3 kg/ft)

QUICK LINKS

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[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rigid extruded aluminum housing for consistency and strength
- Die Cast Aluminum End Caps
- Available in varying lengths from 2' to 8' for individual or continuous row mounting
- Seamlessly create a variety of shapes with straight and corner units
- Housing is treated with phosphate rust inhibitor and painted with textured powder coat paint.
- Manufactured in the USA

Optical System

- High transmission snap-in impact resistant diffuse acrylic lens
- Minimum CRI of 82

Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (1% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High voltage (347 Vac).
- L70 Calculated Life: >100k Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40°F to +104°F)
- Power factor: >.95

- Input power stays constant over life.
- Factory pre-wired to section ends with quick-wire connectors
- Optional 120-277V 12W integral emergency battery pack is available to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed beneath the snap in lens mounted to the reflector.

Controls

- Optional integral passive infrared occupancy sensor available
- Optional integral daylight harvesting sensor available

Installation

- Mounting options include both Drywall and T-Grid
- Mounting brackets on housing sides support T-Grid installation
- Quick connect harness to attach fixtures in continuous rows
- Joiner tabs to ensure proper alignment from fixture to fixture
- Power access holes on top and end of fixtures
- 1/4" holes on support brackets for hanger wires in Grid installations
- 5/8" mounting holes on drywall fixtures for alternate mounting option

Warranty

- Complete warranty terms located at: <https://www.lsi-industries.com/resources/terms-and-warranty.aspx>.
- 1 Year warranty on optional Battery Backup. Test regularly in accordance with local codes.

Listings

- List for UL 1598 and UL 8750
- RoHS Compliant
- Suitable for damp locations
- Meets Buy American Act requirements
- State of California Title 24 compliant





STRAIGHT ORDERING GUIDE

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TYPICAL ORDER EXAMPLE: **2RLS 4 LED 07L LF UE 40 WHT**

Prefix	Length	LED Technology	Lumens (Per Foot)	Lens	Voltage	Color Temperature
2RLS - 2" Width	2 - 2' Length ¹	LED	03L - 300 Lumens	LF - Frosted Diffuse	UE - Universal Voltage (120V-277V)	27 - 2700K ²
	3 - 3' Length		05L - 500 Lumens			30 - 3000K
	4 - 4' Length		07L - 700 Lumens			35 - 3500K
	5 - 5' Length		10L - 1,000 Lumens			40 - 4000K
	6 - 6' Length					50 - 5000K ²
	7 - 7' Length					
	8 - 8' Length					
	CVO - 2'x2' Corner Vertical Out ⁴					
	CVI - 2'x2' Corner Vertical In ⁴					
	CHO - 2'x2' Horizontal Corner					

Position	Ceiling Trim Type	Fixture Finish	Options
Individual I - Individual Unit (includes 2 endplates and starter harness) ³	F - Flange 3/4" for Drywall/Sheetrock FL - Flangeless for Drywall/Sheetrock	WHT - White BLK - Black MSV - Silver RAL - Custom Color (specify i.e. RAL829)	OCC - Occupancy Sensor DAY - Daylight Sensor DOC - Daylight and Occupancy Sensor EM - Emergency Battery Pack ³ EC - Emergency Circuit ³ EH - Emergency Through Harness ⁴ F - Fast Blow Fuse GMF - Slow Blow Fuse
Continuous Row Mount Options S - Starter Unit (includes 1 endplate and starter harness) ³ J - Joiner Unit (does not include endplates or starter harness) ³ E - Ender Unit (includes 1 endplate but no starter harness) ³	G1 - 15/16" Grid G9 - 9/16" Grid GS - Slot Grid		

Notes:

- 1 - Sensor and Emergency battery options not available for this length
- 2 - Adds 1 week to published lead time
- 3 - Applies to 9/16" Grid, 9/16" Tegular Grid, 1 and 5/16" Slot T-Grid
- 4 - Not available with G1, G9, GS Ceiling Trim Types
- 5 - EH is required if emergency circuit traverses multiple fixtures

PERFORMANCE

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DELIVERED LUMENS - 4000K				
Size	Output	Lumens/foot	Wattage	Lumens/Watt
2"	03L	375	13.69 W	110 lm/W
	05L	500	18.45 W	111 lm/W
	07L	750	28.32 W	108 lm/W
	10L	1,000	38.43 W	104 lm/W

*LEDs are frequently updated therefore values are nominal.





PHOTOMETRICS

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Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%. See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

2RLS-4-07L-LF-40

Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	465.2	15.20
0-30	961.6	31.50
0-40	1,523.8	49.80
0-60	2,519.3	82.40
0-80	3,010.6	98.50
0-90	3,057.0	100.00
10-90	2,934.1	96.00
20-40	1,058.5	34.60
20-50	1,600.1	52.30
40-70	1,316.9	43.10
60-80	491.3	16.10
70-80	170.0	5.60
80-90	46.4	1.50
90-110	0.0	0.00
90-120	0.0	0.00
90-130	0.0	0.00
90-150	0.0	0.00
90-180	0.0	0.00
110-180	0.0	0.00
0-180	3,057.0	100.00

