

atalog # :	Project:
Prepared By :	Date :

R	Seri	ies	<b>3</b> I	RI	S,	/4	<b>4</b> F	2	L	S







OVERVIEW							
Lumen Range	391 - 1,040						
ССТ	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**

Ordering Guide Performance P	hotometrics 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
- 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

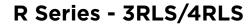
#### Warranty

- 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.

#### Listinas

- List for UL 1598 and UL 8750
- RoHS Compliant
- · Suitable for damp locations
- Meets Buy American Act requirements
- State of California Title 24 compliant
- DLC qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.







## STRAIGHT ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: 3RLS 4 LED 06L LF UE 40 WHT

Prefix	Length	LED Technology	Lumens (Per Foot)	Ceiling Wall Type
3RLS - 3" Width 4RLS - 4" Width	2 - 2' Length¹ 3 - 3' Length 4 - 4' Length 5 - 5' Length 6 - 6' Length 7 - 7' Length 8 - 8' Length CVO -2'x2' Corner Vertical Out⁴ CVI - 2'x2' Corner Verical In⁴ CHO - 2'x2' Horizontal Corner	LED	06L - 600 Lumens 10L - 1,000 Lumens 11L - 1,100 Lumens 13L - 1,300 Lumens	Individual GI - Grid Individual Unit (includes 2 endplates and starter harness) <sup>3</sup> FI - 3/4" Flange for Individual Unit in Drywall/Sheetrock (includes 2 endplates and starter harness) FLI - Flangeless for Individual Unit in Drywall/Sheetrock (includes 2 endplates and starter harness) Grid Continuous Row Mount Options GS - Grid Starter Unit (includes 1 endplate and starter harness) <sup>3</sup> GJ - Grid Joiner Unit (does not include endplates or starter harness) <sup>3</sup> GE - Grid Ender Unit (includes 1 endplate but no starter harness) <sup>3</sup> Drywall Continuous Row Mount Options FS - 3/4" Flange Starter Unit (includes 1 endcap and starter harness) FJ - 3/4" Flange Ind Unit (includes 1 end cap but no starter harness) FE - 3/4" Flangeless Starter Unit (includes 1 endcap and starter harness) FLJ - Flangeless Starter Unit (includes 1 endcap and starter harness) FLJ - Flangeless End Unit (includes 1 end cap but no starter harness) FLL - Flangeless End Unit (includes 1 end cap but no starter harness)

Lens	Voltage	Color Temperature	Fixture Finish	Options
LF - Frosted Diffuse	<b>UE</b> - Universal Voltage (120V-277V)	<b>27</b> - 2700K <sup>2</sup>	WHT - White	OCC - Occupancy Sensor
	HV - High Voltage (347V)	<b>30</b> - 3000K	BLK - Black	DAY - Daylight Sensor
		<b>35</b> - 3500K <b>40</b> - 4000K	MSV - Silver	DOC - Daylight and Occupancy Sensor
		<b>50</b> - 5000K <sup>2</sup>	RAL - Custom Color	EM - Emergency Battery Pack
			(specify i.e. RAL829)	EC - Emergency Circuit
				EH - Emergency Through Harness <sup>5</sup>
				F - Fast Blow Fuse
				GMF - Slow Blow Fuse

## Notes:

- 1 Sensor and Emergency battery options not available for this length
- 2 Adds 1 week to published lead time
- 3 Applies to  $9/16\ensuremath{\text{"}}$  and  $15/16\ensuremath{\text{"}}$  tegular and non-tegular grid ceiling
- 4 Only available with flange or flangeless ceiling trim types
- 5 EH is required if emergency circuit traverses multiple fixtures



PERFORMANCE Back to Quick Links

DELIVERE						
Size	Output	3000K	3500K	4000K	5000K	Wattage
	06L	604	613	634	653	5.7
3'	10L	919	934	965	993	8.7
3	11L	1,078	1,095	1,132	1,165	10.4
	13L	1,222	1,242	1,283	1,321	12.0
	06L	630	640	662	681	5.7
4'	10L	962	979	1,010	1,040	8.7
4'	11L	1,127	1,147	1,184	1,220	10.4
	13L	1,280	1,300	1,344	1,383	12.0

RECOMMEND	ED LUMEN MA	INTENANCE			
Ambient	Initial <sup>2</sup>	25K hr²	50K hr²	75K hr³	100K hr³
0 C (32 F)	1.02	0.96	0.94	0.92	0.90
5 C (41 F)	1.02	0.96	0.94	0.91	0.89
10 C (50 F)	1.01	0.95	0.92	0.89	0.86
15 C (59 F)	1.01	0.95	0.91	0.87	0.83
20 C (68 F)	1.00	0.94	0.89	0.84	0.80
25 C (77 F)	1.00	0.92	0.86	0.81	0.75
30 C (86 F)	0.99	0.91	0.83	0.77	0.71
35 C (95 F)	0.98	0.91	0.80	0.70	0.62

<sup>\*</sup>LED Chips are frequently updated therefore values are nominal.

ELECTRICAL DATA - PER FOOT*									
Drive Current	120V	208V	240V	277V	347V				
06L	0.048A	0.027A	0.024A	0.021A	0.016A				
10L	0.073A	0.042A	0.036A	0.031A	0.025A				
11L	0.087A	0.050A	0.043A	0.038A	0.030A				
13L	0.100A	0.058A	0.050A	0.043A	0.035A				

<sup>\*</sup>Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

- 1 Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 2 In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
- 3 In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

PHOTOMETRICS Back to Quick Links

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%.

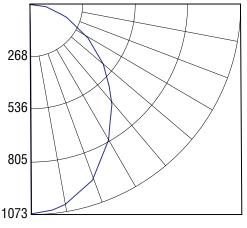
 $See \ \underline{\text{http://www.lsi-industries.com/products/led-lighting-solutions.aspx}} for \ detailed \ photometric \ data.$ 

# 3RLS 4 LED 06L XX LF XX 40 WHT

## **Zonal Lumen Summary**

Zone	Lumens	%Luminaire
0 - 30	781.0	31%
0-40	1,239.3	49.2%
0-60	2,063.3	81.9%
60-90	455.9	18.1%
70-100	184.1	7.3%
90-120	0	0%
0-90	2,519.3	100%
90-180	0	0%
0-180	2,519.3	100%

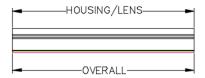
## **POLAR CURVE**



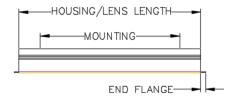


# STRAIGHT DIMENSIONS Back to Quick Links

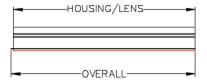
# **GRID JOINER FIXTURE (GJ)**



# DRYWALL/SHEETROCK FIXTURE (F,FL)

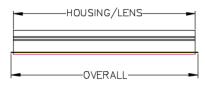


# **GRID STARTED / ENDER FIXTURE (GS,GE)**



Grid Fixtures	2' Housing	2' Overall	3' Housing	3' Overall	4' Housing	4' Overall	5' Housing	5' Overall	6' Housing	6' Overall	8' Housing	8' Overall
Individual Grid Unit	23.36	23.96	35.36	35.96	47.36	47.96	59.36	59.96	71.36	71.96	95.36	95.96
Starter or Ender Grid Unit	23.68	23.98	35.68	35.98	47.68	47.98	59.68	59.98	71.68	71.98	95.68	95.98
Joiner Grid Unit	24.00	24.00	36.00	36.00	48.00	48.00	60.00	60.00	72.00	72.00	96.00	96.00

# **GRID INDIVIDUAL FIXTURE (GI)**



Drywall Fixtures	Housing & Lens	Flange Fixture Overall (End Flange)	Flangeless Fixture Overall (End Flange)	Mounting
2ft	24.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	18.00
3ft	36.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	30.00
4ft	48.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	42.00
5ft	60.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	54.00
6ft	72.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	66.00
8ft	96.00	Add .80 Trim @ Start and End of Run	Add 1.35 Trim @ Start and End of Run	90.00

## **CORNER DIMENSIONS**

