

LSL

Selectable LED Linear Strip

Product Description

The LSL LED Linear Strip offers selectable light output and CCT, delivering optimal performance and long life in a slim design ideal for general ambient lighting in retail, warehouse, residential utility, and light commercial or industrial applications. This versatile fixture is easy to surface mount on both ceilings and walls and can accommodate end-to-end runs. The LSL features a toolless access lens module that is easily removed from the back channel for simple installation. The lens features a semi-circular, milky-white lens that offers a more polished aesthetic while eliminating hotspots, and is an economical, energy-efficient lighting alternative to single-lamp fluorescent strips and some wraparound fixtures. For even greater energy savings, optional controls, including factory-installed microwave occupancy sensors are available.

Construction

- Durable 20 gauge steel construction
- Smooth formed sides for safe handling
- Lens and LED's are in one module that is easily removed without tools
- Similar form factor to single-lamp fluorescent strip

Optical System

- Semi-circular, milky-white diffuser
- Lens module retention method securely holds it in ceiling, wall, or pendant mount
- Selectable CCT of 3500K/4000K/5000K
- Standard 80 CRI, 90 CRI option available on 4' model

Electrical

- Input voltage of 120-277VAC
- Selectable Wattage of: 2' (25/20/15W), 4' (45/38/34W), 8' (90/75/65W)
- Power factor > 0.9, THD < 20%
- Through wiring capable for end-to-end runs
- Operating temperature rating of -4°F to 122°F (-20°C to 50°C)

Controls

- Microwave occupancy sensor available
- Full-range dimming from 0 - 10VDC

Mounting and installation

- Easy surface mount installation on ceilings or walls
- Safety strap-retained LED array allows single person installation
- Multiple knockouts provided for wiring from back or ends
- Features provided for surface, cable, hook and chain, or pendant mount
- Cover plates provided for 4/O box surface installation
- Internal switches allow for easy wattage and CCT selection
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Listings

- cULus 1598 Listed for damp locations
- DLC 5.1 standard compliant
- RoHS compliant
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >54,000 hours L70 life >150,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards TM-21 Reported

Warranty

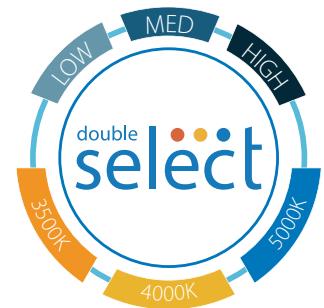
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



LSL1
LED Linear Strip
Wattage Selectable
CCT Selectable



LSL

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Ordering

Ordering Information

Example: LSL1445SUS8

Series	Version	Length	Wattage Select	Voltage	CCT Select	CRI	Controls	Emergency	
LSL	1	2 (2 Foot)	25S (25/20/15W) ²	U (120-277V)	S (35/40/50K)	8 (80CRI-Standard)	(Blank)	(Blank)	
		4 (4 Foot)	45S (45/38/34W) ³				9 (90CRI-Special Order) ¹	M (Microwave Sensor)	EM4 (4W) ²
		8 (8 Foot)	90S (90/75/65W) ⁴						EM8 (8W) ^{3,4}
								EM16 (16W) ^{3,4}	

Specifications and dimensions subject to change without notice.

1. Only available on 4' model.

2. 2 foot fixture only.

3. 4 foot fixture only.

4. 8 foot fixture only.

Accessories

Continuous Run Bracket	LSL-10-CR-BRACKET
Pendant Mount Kit (for 4' and 8' only)	LSLPENDANTKIT
Microwave Sensor, 12V, Snap-in	SNAPINSENSORMW
Remote Control for Snap-in MW Sensor	SNAPINMWREMOTE
10Ft Aircraft Cable Kit	ACMK110
Suspension Cable Kit with Paddles (2-Pack)	HB-LG-120-18Y-PAD
Standard Distribution Reflector - 2'	LSL1RFLS2WH
Standard Distribution Reflector - 4'	LSL1RFLS4WH
Standard Distribution Reflector - 8'	LSL1RFLS8WH

Recommended Dimmers*

Lutron NTSTV-DV-WH

Lutron DVSTV

Cooper SF10P

Legrand RH4FBL3PW

*Not a complete list. Check compatibility before installation.

Performance Data

Performance Data					
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency
LSL1225US	Standard	3500	1926		130.1
		4000	1957	14.8	132.2
		5000	1944		131.4
	Medium	3500	2640		130.1
		4000	2687	20.3	132.4
		5000	2672		131.6
	High	3500	3121		130.0
		4000	3146	24.0	131.1
		5000	3168		132.0
LSL1445US	Standard	3500	4715		135.0
		4000	5044	34.8	145.0
		5000	4837		139.0
	Medium	3500	5270		136.5
		4000	5637	38.6	146.0
		5000	5406		140.0
	High	3500	6241		133.6
		4000	6647	46.7	142.3
		5000	6401		137.0

Performance Data					
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency
LSL1890US	Standard	3500	9015	64.2	140.0
		4000	9642	64.2	150.0
		5000	9246	64.2	144.0
	Medium	3500	10402	74.8	139.0
		4000	11125	74.8	149.0
		5000	10669	74.8	143.0
High	3500	12482	93.4	134.0	
	4000	13351	93.4	143.0	
	5000	12803	93.4	137.0	

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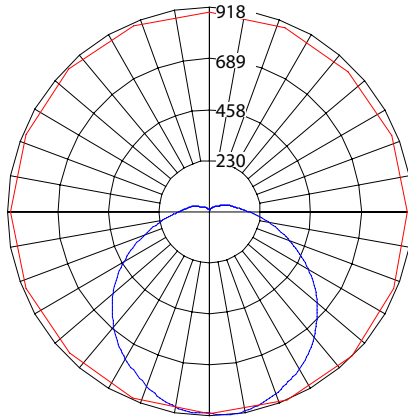
Photometric Data

LSL1 2' 24W 35K

Input Voltage (VAC)	120-277
System Level Power (W)	24
Delivered Lumens (Lm)	3121
System Efficacy (Lm/W)	130
Correlated Color Temp (K)	3486
Color Rendering Index (CRI)	83.7
Beam Angle (0)	126.0
Beam Angle (90)	109.0
Spacing Criteria (0)	1.22
Spacing Criteria (90)	1.28

Data Multipliers

	15W	20W	24W
3500K	0.617	0.846	1.000
4000K	0.627	0.861	1.008
5000K	0.623	0.856	1.015



Intensity Summary (Candela Power)

Angle	Mean CP
0	903
5	898
15	862
25	777
35	689
45	571
55	447
65	305
75	176
85	68
90	42

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	56.4	15.7
6	25.1	23.6
8	14.1	31.4
10	9.0	39.3
12	6.3	47.1

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	705	22.6%
0-40	1162	37.2%
0-60	2097	67.2%
0-90	2878	92.2%
90-180	243	7.8%
0-180	3121	100%

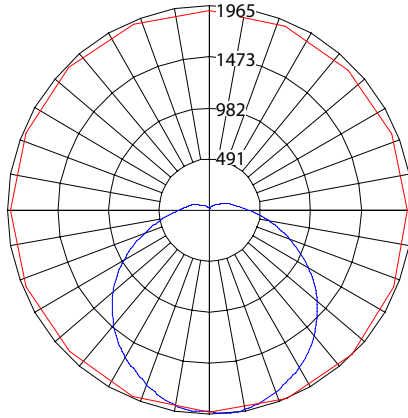
Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

LSL1 4' 45W 35K

Input Voltage (VAC)	120-277
System Level Power (W)	46.7
Delivered Lumens (Lm)	6241
System Efficacy (Lm/W)	133.6
Correlated Color Temp (K)	3486
Color Rendering Index (CRI)	83.7
Beam Angle (0)	118.3
Beam Angle (90)	102.7
Spacing Criteria (0)	1.2
Spacing Criteria (90)	1.3

Data Multipliers

	34W	38W	45W
3500K	0.755	0.844	1.000
4000K	0.808	0.903	1.065
5000K	0.775	0.866	1.026



Intensity Summary (Candela Power)

Angle	Mean CP
0	1933
5	1909
15	1833
25	1662
35	1439
45	1175
55	899
65	608
75	347
85	139
90	79

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
6	53.7	13.4
8	30.1	20.1
10	19.3	26.8
12	13.4	33.5
14	9.8	40.2

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1487	23.8%
0-40	2420	38.8%
0-60	4264	68.3%
0-90	5747	92.1%
90-180	494	7.9%
0-180	6241	100%

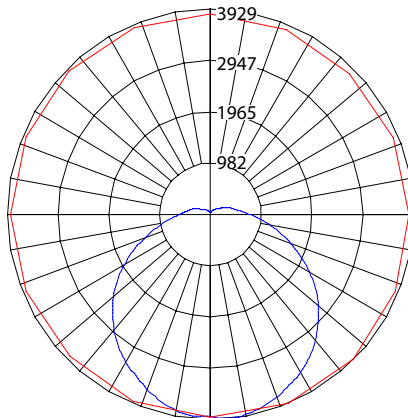
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LSL1 8' 90W 35K

Input Voltage (VAC)	120-277
System Level Power (W)	93.4
Delivered Lumens (Lm)	12482
System Efficacy (Lm/W)	133.6
Correlated Color Temp (K)	3515
Color Rendering Index (CRI)	83
Beam Angle (0)	118.3
Beam Angle (90)	102.7
Spacing Criteria (0)	1.2
Spacing Criteria (90)	1.28

Data Multipliers

	65W	75W	90W
3500K	0.722	0.833	1.000
4000K	0.772	0.891	1.070
5000K	0.741	0.855	1.026



Intensity Summary (Candela Power)

Angle	Mean CP
0	3866
5	3818
15	3665
25	3325
35	2879
45	2350
55	1798
65	1215
75	695
85	278
90	158

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
6	107.3	20.1
8	60.3	26.8
10	38.6	33.5
12	26.7	40.2
14	19.6	46.9

Zonal Lumen Summary

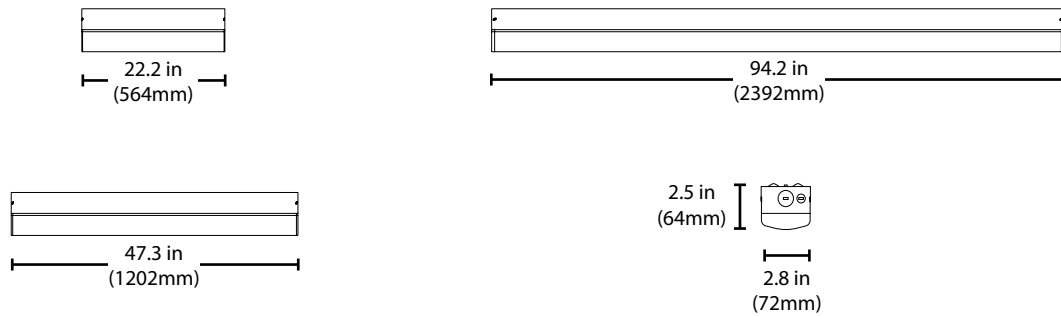
Zone	Lumens	% of Luminaire
0-30	2974	23.8%
0-40	4840	38.8%
0-60	8528	68.3%
0-90	11495	92.1%
90-180	987	7.9%
0-180	12482	100%

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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Dimensions



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.