

LS1

4' LED Linear Strip

Product Description

The LS1 LED Linear Strip brings a slim design to task and general ambient lighting for surface mount ceiling applications. This economical, energy-efficient lighting solution is a perfect alternative to 2-lamp fluorescent strips and some wraparound fixtures. The LS1's milky white lens provides a more polished, higher-end look to the fixture and yet is an affordable alternative for retail, light industrial, warehouse and residential utility applications.

Construction

- Heavy 20 gauge steel construction
- Smooth sides for safe handling

Optical System

- Semicircular milky white diffuser eliminates hotspots and pixelation

Electrical

- Utilizes high performing LEDs
- Driver delivers full-range dimming from 0 - 10VDC
- Silent and flicker-free operation
- Tight LED binning ensures color uniformity
- Operating temperature of 0° to 120°F (-18°C to 40°C)
- Universal input 120-277VAC
- Greater than 115 lumens per watt
- TM-21 Projected L70(9k) life >54,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards
- Meets FCC Part 15B: 2016 Class A requirements

Mounting and installation

- Easy surface mount installation
- Removable fixture housing allows easy access for mounting and wiring
- Can be surface mounted to walls and ceilings for application variability
- Knockouts provide for easy end-to-end runs
- Similar form factor to 2-lamp fluorescent fixture

Finish

- White powder coat finish

Warranty

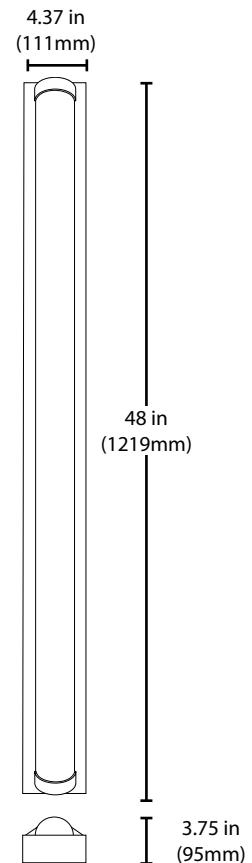
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Project

Catalog

Type

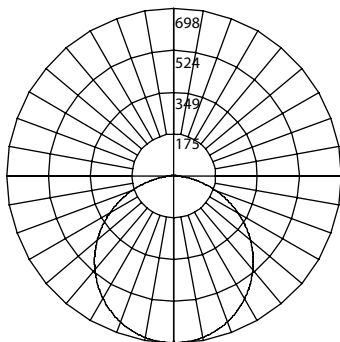
Date



Photometric Data

LS1 SO 4000K

Input Voltage (VAC)	120-277
System Level Power (W)	25.6
Delivered Lumens (Lm)	2836
System Efficacy (Lm/W)	111.0
Correlated Color Temp (K)	3932
Color Rendering Index (CRI)	86.4
Beam Angle	114°
Spacing Criteria (0°)	1.28
Spacing Criteria (90°)	1.36



Intensity Summary (Candela Power)			
Angle	0° (Along)	45°	90° (Across)
0	687	687	687
5	696	681	684
15	672	663	671
25	624	626	642
35	555	572	599
45	468	506	548
55	364	432	490
65	250	356	428
75	132	283	365
85	33	216	302
90	12	183	269

CCT Data Multiplier	
LS1-10S-UNV-30	1.058
LS1-10S-UNV-50	1.084

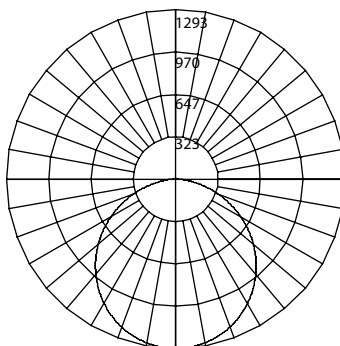
Cone of Light Tabulation		
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	42.9	5.43
6	19.1	8.12
8	10.8	10.80
10	6.9	13.50
12	4.8	16.00
14	3.6	18.50
16	2.7	21.50

Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	544	19%
0-40	903	32%
0-60	1678	59%
0-90	2521	89%
90-180	315	11%
0-180	2836	100%

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

LS1 HO 4000K

Input Voltage (VAC)	120-277
System Level Power (W)	46.7
Delivered Lumens (Lm)	5251
System Efficacy (Lm/W)	112.5
Correlated Color Temp (K)	3932
Color Rendering Index (CRI)	86.4
Beam Angle	114°
Spacing Criteria (0°)	1.28
Spacing Criteria (90°)	1.36



Intensity Summary (Candela Power)			
Angle	0° (Along)	45°	90° (Across)
0	1272	1272	1272
5	1288	1262	1266
15	1244	1228	1243
25	1156	1160	1188
35	1028	1060	1110
45	866	938	1015
55	674	800	908
65	463	660	792
75	244	523	677
85	62	399	560
90	22	339	498

CCT Data Multiplier	
LS1-10H-UNV-30	1.058
LS1-10H-UNV-50	1.084

Cone of Light Tabulation		
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	79.5	5.43
6	35.4	8.12
8	20.1	10.80
10	12.9	13.50
12	8.9	16.00
14	6.6	18.50
16	5.0	21.50

Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	544	19%
0-40	903	32%
0-60	1678	59%
0-90	2521	89%
90-180	315	11%
0-180	2836	100%

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

Performance Data			
Model Number	Lumens	Watts	Lumens/Watt
LS1-10S-UNV-30	3001	25.6	117.5
LS1-10S-UNV-40	2836	25.6	111.0
LS1-10S-UNV-50	3074	25.6	120.3
LS1-10H-UNV-30	5557	46.7	119.0
LS1-10H-UNV-40	5251	46.7	112.5
LS1-10H-UNV-50	5692	46.7	122.0

Recommended Dimmers*
Lutron NTSTV
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

*Not a complete list. Check compatibility before installation.

Ordering Information*Example: LS1-10S-UNV-40*

Series	Output	Voltage	CCT's	Emergency (Optional)
LS1	10S (Standard Output)	UNV (120-277V)	30 (3000 K)*	E1(EMB45)
	10H (High Output)		40 (4000 K)	E2(EMB80)
			50 (5000 K)	

Specifications and dimensions subject to change without notice.

**Consult factory for availability*

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.