LS1-8

8' LED Linear Strip

Project

Catalog

Type

Date

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. The LS1's milky white lens diffuser provides a more polished, higher-end look to the fixture and yet is an affordable alternative for retail, warehouse, light industrial and residential utility applications.

Construction
- 20 Gauge steel construction
- Smooth sides for safe handling

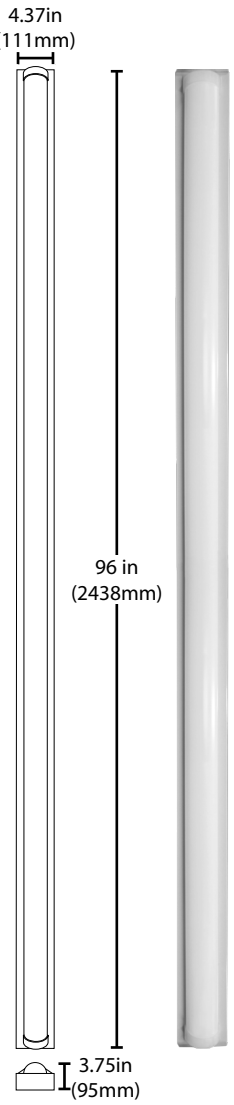
Optical System
- Semicircular milky white diffuser eliminates hotspots and pixelation

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 49°C)
- Universal input 120-277VAC
- Greater than 116 lumens per watt
- TM-21 Reported 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
- Mounting points for hook and chain, cable, and pendant mount
- 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
- Spacing criteria 1.28

Finish
- White powder coat finish

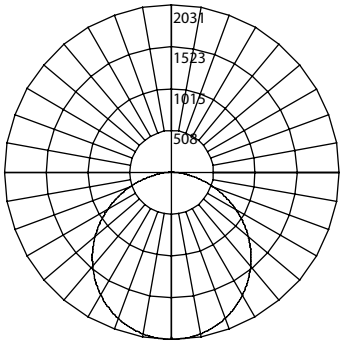
Warranty
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel



Photometric Data

LS1 8 4000K

Input Voltage (VAC)	120-277
System Level Power (W)	70.0
Delivered Lumens (Lm)	8247
System Efficacy (Lm/W)	117.8
Correlated Color Temp (K)	4276
Color Rendering Index (CRI)	85.4
Beam Angle	114°
Spacing Criteria (0°)	1.28
Spacing Criteria (90°)	1.36



Intensity Summary (Candela Power)

Angle	0° (Along)	45°	90° (Across)
0	1998	1998	1998
5	2023	1982	1988
15	1954	1929	1952
25	1816	1822	1866
35	1615	1665	1743
45	1360	1473	1594
55	1059	1257	1425
65	727	1036	1244
75	384	822	1062
85	97	627	880
90	34	532	781

CCT Data Multiplier

LS1-8-10S-UNV-50	1.011

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	124.9	5.42
6	55.6	8.11
8	31.5	10.74
10	20.2	13.38
12	14.1	15.90
14	10.3	18.83
16	7.9	21.25

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1732	21%
0-40	2886	35%
0-60	5361	65%
0-90	8000	97%
90-180	247	3%
0-180	8247	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
LS1-8-10S-UNV-40	8247	70.0	117.8
LS1-8-10S-UNV-50	8338	70.0	119.1

Recommended Dimmers*

Lutron NTSTV
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

**Not a complete list. Check compatibility before installation.*

Ordering Information *Example: LS1-8-10S-UNV-40*

Series	Length	Output	Voltage	CCT's	
LS1	**8** (8 ft)	**10S** (Standard Output)	**UNV** (120-277V)	☐ **40** (4000 K)	☐ E1(EMB45)
				☐ **50** (5000 K)	☐ E2(EMB80)

All reports based on current industry standards; field performance may differ from laboratory performance
Specification and dimensions subject to change without notice

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.