

# LSA

## Architectural LED Direct/Indirect Linear

### Product Description

NICOR's LSA Architectural LED Direct/Indirect Linear is a stylish six-foot fixture designed for individual units or continuous runs in commercial and architectural interiors. Delivering up to 145 lumens per watt, LSA provides 90% direct and 10% indirect lighting and achieves a full range of dimming from 0-10 volts, enabling the flexibility to create the ideal ambience for a variety of environments and applications. The LSA's highly reflective optical chamber and diffused polycarbonate lens provide wide, direct light distribution while three windows in the extruded aluminum body offer uplight with a single piece diffuser for soft distribution. Using a spring steel mounting bracket, installation is easy with three different mountings available – surface, pendant, and aircraft cable. The fixture operates at a maximum ambient temperature of 50°C. LSA is available in integral or remote driver configurations.

### Construction

- Extruded aluminum housing with solid endcaps
- 6' length
- Designed for individual units or continuous runs

### Optical System

- Highly reflective optical chamber and diffused polycarbonate lens provides wide light distribution
- Three window side light with single piece diffuser for indirect distribution
- Fixture design provides 90% direct / 10% indirect light output

### Electrical

- Available in Driver Integrated or Remote Power System configurations
- Remote Power fixture provided with 2 RJ-45 connector ports
- Efficiency up to 145 lumens per watt
- Universal Input of 120-277VAC
- Driver delivers full range dimming via 0-10VDC
- Operating Temperature of 32° to 122°F (0°C to 50°C)
- 10kA Surge suppression standard on integral version
- For installations where higher power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panels

### Mounting

- Snap-in clips provided for quick surface mount installation
- Optional Pendant Mount kit available
- Optional Aircraft Cable Mount kit available

### Finish

- White powder coat finish standard
- Available in Satin Clear finish
- Custom color powder coat options available\*

### Lumen Maintenance

- TM-21 Calculated L70(12K) hours = 113,000
- TM-21 Reported L70(12K) hours >72,000
- TM-21 Calculated L90(12K) hours = 38,000

### Warranty

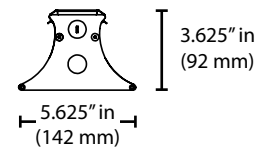
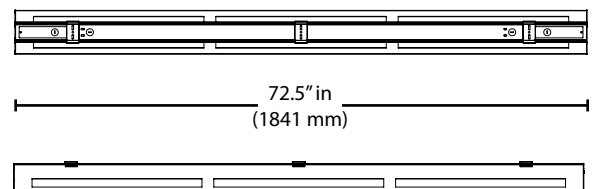
- 5 year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date

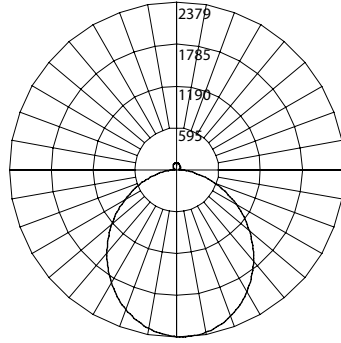


DLC only available on 120-277V integral driver models

# Photometric Data

## LSA 3500K

Input Voltage (VAC)	120-277
System Level Power (W)	50.8
Delivered Lumens (Lm)	6830
System Efficacy (Lm/W)	134.3
Correlated Color Temp (K)	3421
Color Rendering Index (CRI)	81
Beam Angle (0°)	101.4°
Beam Angle (90°)	105.1°
Spacing Criteria (0°)	1.18
Spacing Criteria (90°)	1.26



### Intensity Summary (Candle Power)

Angle	0° Along	90° Across
0	2376	2376
15	2226	2299
30	1843	1999
45	1338	1529
60	993	976
75	666	422
90	176	0
105	127	23
120	171	42
135	196	60
150	192	83
165	118	98
180	66	66

### Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	148.5	4.8
6	66.0	7.1
8	37.1	9.4
10	23.8	11.8
12	16.5	14.1
14	12.1	16.6
16	9.3	18.8

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1694	24.8%
0-40	2725	39.9%
0-60	4658	68.2%
0-90	6140	89.9%
90-180	690	10.1%
0-180	6830	100.0%

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

### Remote Drive Scalar

LSA-1-6-R	1.071
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### CCT Data Multiplier

LSA-1-6-I-U-40	1.039
LSA-1-6-I-U-50	1.079

### Integral Performance Data

Model Number	Lumens	Watts	Lumens/Watt
LSA-1-6-I-U-35	6830	50.8	134.3
LSA-1-6-I-U-40	7099	50.8	139.6
LSA-1-6-I-U-50	7369	50.8	144.9

### PoE Performance Data

Model Number	Lumens	Watts	Lumens/Watt
LSA-1-6-I-U-35	7315	Wattage based on LCU performance	Greater Than 130Lm/W
LSA-1-6-I-U-40	7608		
LSA-1-6-I-U-50	7827		

## Ordering Information

Example: LSA-1-6-I-U-40-W-I-S

Series	Version	Length	Light Pattern	Input Voltage	CCT	Finish Color	Driver Configuration	Mounting
LSA	1 (Version 1)	6 (Foot)	<input type="checkbox"/> I (Direct/Indirect)	<input type="checkbox"/> U (120-277)	<input type="checkbox"/> 35 (3500 K)	<input type="checkbox"/> W (White)	<input type="checkbox"/> I (Integral)	<input type="checkbox"/> S (Surface)
				<input type="checkbox"/> H (347-480)	<input type="checkbox"/> 40 (4000 K)	<input type="checkbox"/> S (Satin Clear)	<input type="checkbox"/> R (Remote, Cat6)**	<input type="checkbox"/> P (Pendant)
					<input type="checkbox"/> 50 (5000 K)	<input type="checkbox"/> C (Custom)*		<input type="checkbox"/> C (Cable)

Specifications and dimensions subject to change without notice

\*Custom Colors available with 100pc MOQ. Contact NICOR for more info.

\*\*Remote configuration requires installation of the Remote Power System LCU1UNV54LSA6

### Accessories

Accessories sold separately

LCU REMOTE POWER SYSTEM FOR LSA6	LCU1UNV54LSA6
LSA, LSE, LSQ PENDANT MOUNT NON POWER FEED, 48" LENGTH	LSALSESQ1PENDANT
LSA, LSE, LSQ PENDANT MOUNT POWER FEED, 48" LENGTH	LSALSESQ1PENDANTPF
LSA, LSE, LSQ REMOTE PENDANT MOUNT POWER FEED, 48" LENGTH	LSALSESQ1PENDANTTRPF
LSA CONTINUOUS RUN SPRING CLIP	LSA-1-CR-CLIP
LSA ENDCAP W/KNOCKOUT & EVA *Endcap Kit is required for motion sensor	LSA-1-ENDCAPKIT*
LSA AIRCRAFT CABLE KIT NON POWER FEED, 150" LENGTH	LSA-1-CABLE
LSA AIRCRAFT CABLE KIT POWER FEED, 150" LENGTH	LSA-1-CABLE-PF
LSA REMOTE AIRCRAFT CABLE KIT POWER FEED, 150" LENGTH	LSA-1-CABLE-R-PF
LSA SURFACE MOUNT KIT POWER FEED	LSA-1-SURFACE-PF

### Recommended Dimmers\*

- Lutron NTSTV
- Lutron DVSTV
- Cooper SF10P
- Legrand RH4FBL3PW

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

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.