# LSA

Architectural **LED** Direct/Indirect Linear

Project

Catalog

Type

Date

## 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

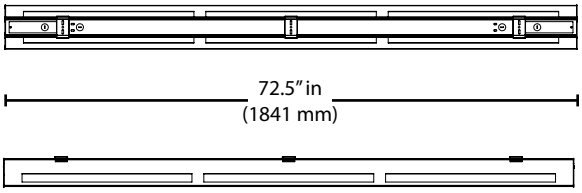
- White powder coat finish standard
- Available in Satin Clear finish
- Custom color powder coat options available*

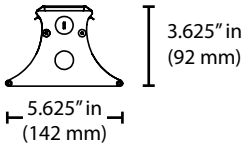
### Lumen Maintenance

- 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)




DLC only available on 120-277V integral driver models

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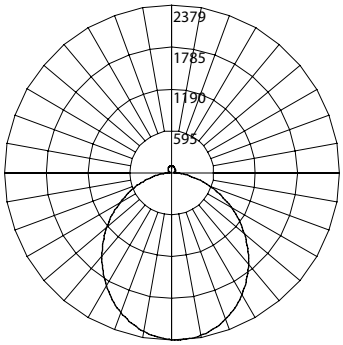
*www.nicorlighting.com April 27, 2018 3:45 PM rev 1.0*

# 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% |

**Remote Drive Scalar**

| | |
|---|---|
| LSA-1-6-R | 1.071 |

**CCT Data Multiplier**

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

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

**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) | ☐ **I** (Direct/Indirect) | ☐ **U** (120-277) | ☐ **35** (3500 K) | ☐ **W** (White) | ☐ **I** (Integral) | ☐ **S** (Surface) |
| | | | | ☐ **H** (347-480) | ☐ **40** (4000 K) | ☐ **S** (Satin Clear) | ☐ **R** (Remote, Cat6)** | ☐ **P** (Pendant) |
| | | | | | ☐ **50** (5000 K) | ☐ **C** (Custom)* | | ☐ **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 | LSALSELSQ1PENDANT |
| LSA, LSE, LSQ PENDANT MOUNT POWER FEED, 48" LENGTH | LSALSELSQ1PENDANTPF |
| LSA, LSE, LSQ REMOTE PENDANT MOUNT POWER FEED, 48" LENGTH | LSALSELSQ1PENDANTRPF |
| 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.*