LSA

Architectural **LED** Direct/Indirect Linear

Project

Catalog

Type

Date

Product Description

The NICOR LSA is a sleek, high-performance lighting solution designed to elevate modern commercial and architectural spaces. Engineered for both individual fixtures and continuous-run configurations, the LSA delivers an exceptional 145 lumens per watt while maintaining an elegant, minimalist form factor. Offered in multiple lengths, controls options, lumen outputs and color options, the LSA can be tailored to meet the exact specifications needed. With 90% direct and 10% indirect illumination, the LSA provides balanced, visually comfortable lighting ideal for offices, corridors, educational, and retail environments.

Construction

- Extruded aluminum housing for superior thermal management
- Solid endcaps standard, End wiring endcaps available
- 4 foot, 6 foot and 8 foot lengths
- White powder coat finish standard
- Available in White, Silver, Black or Custom finish options

Optical System

- Highly reflective optical chamber and diffused polycarbonate lens provides wide light distribution
- Multiple window side light with single piece diffuser for indirect distribution
- Fixture design provides 90% direct / 10% indirect light output
- 80CRI and 90CRI options

Electrical

- Input voltage of 120-277VAC
- Power factor > 0.9
- THD < 10%
- Optional emergency battery backup
- For installations where higher power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panels
- Operating Temperature of 32° to 122°F (0°C to 50°C)

Controls

- Available in 0-10 or DALI dimming configurations
- DALI configurations require use of DALI certified controls unit (NICOR IMS or other)
- Optional PIR or Microwave sensor options

Mounting and Installation

- Wiring input options of top or end access
- Snap-in clips provided for quick surface mount installation
- Optional Pendant Mount kit available
- Optional Aircraft Cable Mount kit available

Listings

- cULus 1598 Listed for damp locations
- cULus 8750 Listed LEDs
- 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, L90(9K) life = 53,650 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Sustainability

USGBC LEED v4/v4.1

- Meets v4 Indoor Environmental Quality (IEQ) Option 1 : Lighting Control requirements
- Meets v4.1 IEQ Option 2 : CRI =>90 CRI requirement
- Meets v4/v4.1 Material Requirements (MR) Environmental Product Delcaration (EPD)
- Product Specific Type III requirements EPD (Environmental Product Declaration)
- UL Environmental Product Declaration Certified per ISO 14025:2006 and ISO 21930:2017

Warranty

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

LSA

Architectural Linear

4′, 6′, 8′ Length

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Ordering Information

Example: LSA1670LIU40WSIT

Series	Ver.	Len. (ft)	Lumen Output	Distri-bution	Input VAC	CCT	CRI	Finish Color	Driver	Wiring Access	Sensor	Emergency
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
LSA	**1**	**4**	4' Fixtures	**I**	**U** (120-277)	**30** (3000 K)	**8** (80)	**W** (White)	**I** (Integral 0-10V)	**T** (Top)	__(None)	__(None)
		6	**30** (3000lm)	(90% Direct /10% Indirect)		**35** (3500 K)	**9** (90)	**S** (Silver)	**D** (DALI control)[2]	**E** (End)	**D** (DALI2 PIR)[2]	**E** (8W)
		8	**40** (4000lm)			**40** (4000 K)		**B** (Black)			**M** (Microwave)	
			50 (5000lm)			**50** (5000 K)		**C** (Custom)[1]			**N** (N-light)	
			60 (6000lm)								**P** (PIR)	
			70 (7000lm)									
			80 (8000lm)									
			90 (9000lm)									
			100 (10000lm)									
			6' Fixtures									
			35 (3500lm)									
			50 (5000lm)									
			60 (6000lm)									
			70 (7000lm)									
			80 (8000lm)									
			90 (9000lm)									
			8' Fixtures									
			60 (6000lm)									
			80 (8000lm)									
			100 (10000lm)									
			110 (11000lm)									
			120 (12000lm)									

Specifications and dimensions subject to change without notice
1) Custom Colors available with 100pc MOQ. Contact NICOR for more info.
2) DALI2 PIR sensor requires use of DALI control Driver

Accessories

Accessories sold separately

LSA, LSE, LSQ PENDANT MOUNT NON POWER FEED, 48" LENGTH	LSALSELSQ1PENDANT
LSA, LSE, LSQ PENDANT MOUNT POWER FEED, 48" LENGTH	LSALSELSQ1PENDANTPF
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 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.*

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Performance Data

4 foot, 90CRI

Lumen Output	Lumens	Watts	Lumens/Watt
30	3207	22.9	140.0
40	4015	28.1	142.9
50	5148	35.5	145.0
60	6037	42.3	142.7
70	7185	50.4	142.6
80	8313	59.3	140.2
90	9022	64.3	140.3
100	10157	72.9	139.3

4 foot, 80CRI

Lumen Output	Lumens	Watts	Lumens/Watt
30	3415	22.9	149.1
40	4276	28.1	152.2
50	5483	35.5	154.4
60	6429	42.3	152.0
70	7652	50.4	151.8
80	8853	59.3	149.3
90	9608	64.3	149.4
100	10817	72.9	148.4

6 foot, 90CRI

Lumen Output	Lumens	Watts	Lumens/Watt
35	3433	22.7	151.2
50	5206	33.6	154.9
60	6093	38.6	157.8
70	6949	44.3	156.9
80	7834	50.0	156.7
90	8658	55.8	155.2

6 foot, 80CRI

Lumen Output	Lumens	Watts	Lumens/Watt
35	3656	22.7	161.1
50	5544	33.6	165.0
60	6489	38.6	168.1
70	7401	44.3	167.1
80	8343	50.0	166.9
90	9221	55.8	165.2

8 foot, 90CRI

Lumen Output	Lumens	Watts	Lumens/Watt
60	6000	43.0	139.5
80	8000	55.5	144.1
100	10000	68.8	145.3
110	11000	79.9	137.7
120	12000	85.0	141.2

8 foot, 80CRI

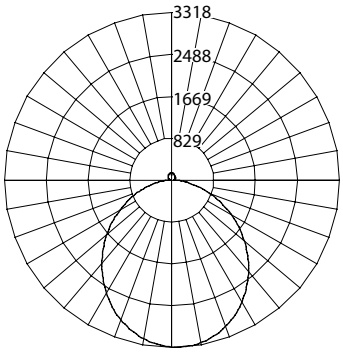
Lumen Output	Lumens	Watts	Lumens/Watt
60	6390	43.0	148.6
80	8520	55.5	153.5
100	10650	68.8	154.8
110	11715	79.9	146.6
120	12780	85.0	150.4

Photometric Data

LSA14100

4000K 90CRI

Input Voltage (VAC)	120-277
System Level Power (W)	72.9
Delivered Lumens (Lm)	10157
System Efficacy (Lm/W)	139.3
Correlated Color Temp (K)	4000
Color Rendering Index (CRI)	90
Beam Angle (0°)	99.6
Beam Angle (90°)	104.4
Spacing Criteria (0°)	1.22
Spacing Criteria (90°)	1.16



Intensity Summary (Candle Power)

Angle	0° Along	90° Across
0	3309	3309
15	3100	3202
30	2567	2784
45	1863	2129
60	1383	1359
75	928	588
90	245	0
105	177	32
120	238	58
135	273	84
150	267	116
165	164	136
180	92	92

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
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	2495	24.6%
0-40	4003	39.4%
0-60	6823	67.2%
0-90	8994	88.5%
90-180	1163	11.5%
0-180	10157	100%

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

CCT Data Multiplier

3000K	0.949
3500K	0.962
5000K	1.038

CRI Data Multiplier

80	1.065
90	1.000

Wattage Multiplier

30	0.314
40	0.385
50	0.487
60	0.580
70	0.691
80	0.813
90	0.882
100	1.000

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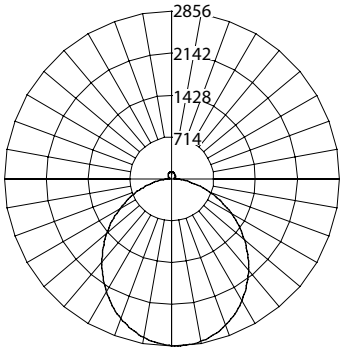
Photometric Data

LSA1690

4000K 90CRI

Input Voltage (VAC)	120-277
System Level Power (W)	55.8
Delivered Lumens (Lm)	8658
System Efficacy (Lm/W)	155.2
Correlated Color Temp (K)	4000
Color Rendering Index (CRI)	90
Beam Angle (0°)	105.1
Beam Angle (90°)	101.4
Spacing Criteria (0°)	1.18
Spacing Criteria (90°)	1.26



Intensity Summary (Candle Power)

Angle	0° Along	90° Across
0	2856	2856
15	2676	2763
30	2215	2403
45	1608	1838
60	1194	1173
75	801	507
90	212	0
105	153	28
120	206	50
135	236	72
150	231	100
165	142	118
180	79	79

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	44.4	20.9
10	28.4	26.1
12	19.6	31.3
14	14.4	36.6
16	11.0	41.8

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	2148	24.8%
0-40	3452	39.9%
0-60	5905	68.2%
0-90	7784	89.9%
90-180	874	10.1%
0-180	8658	100%

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

CCT Data Multiplier

3000K	0.949
3500K	0.962
5000K	1.038

CRI Data Multiplier

80	1.065
90	1.000

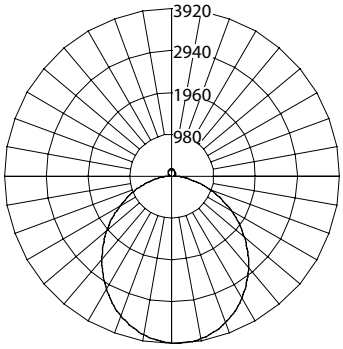
Wattage Multiplier

35	0.407
50	0.602
60	0.692
70	0.794
80	0.896
90	1.000

LSA18120

4000K 90CRI

Input Voltage (VAC)	120-277
System Level Power (W)	85.0
Delivered Lumens (Lm)	12000
System Efficacy (Lm/W)	141.2
Correlated Color Temp (K)	4000
Color Rendering Index (CRI)	90
Beam Angle (0°)	99.6
Beam Angle (90°)	104.4
Spacing Criteria (0°)	1.22
Spacing Criteria (90°)	1.16



Intensity Summary (Candle Power)

Angle	0° Along	90° Across
0	3920	3920
15	3673	3793
30	3041	3298
45	2207	2523
60	1638	1610
75	1099	696
90	290	0
105	210	38
120	282	69
135	323	99
150	317	137
165	195	162
180	109	109

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	61.0	18.9
10	39.0	23.7
12	27.0	28.4
14	19.8	33.1
16	15.1	37.9

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	2948	24.6%
0-40	4729	39.4%
0-60	8060	67.2%
0-90	10626	88.5%
90-180	1374	11.5%
0-180	12000	100%

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

CCT Data Multiplier

3000K	0.949
3500K	0.962
5000K	1.038

CRI Data Multiplier

80	1.065
90	1.000

Wattage Multiplier

60	0.506
80	0.653
100	0.809
110	0.940
120	1.000

LSA

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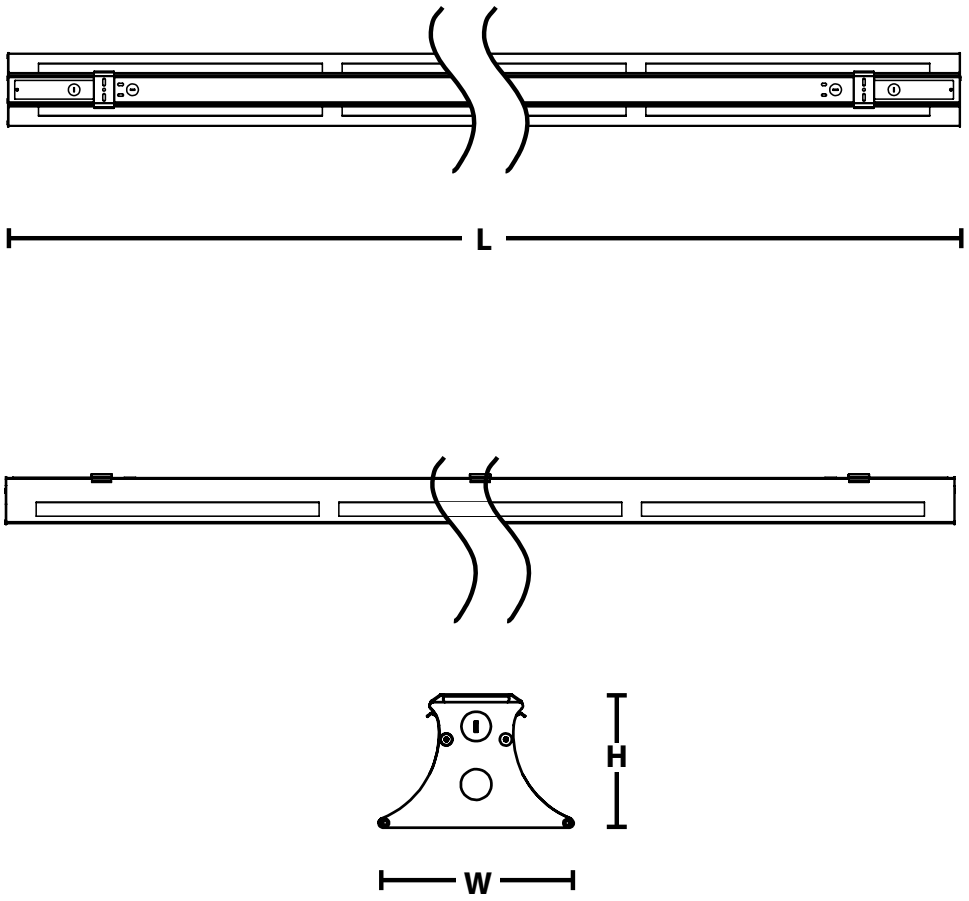
Dimensions

	LSA14	LSA16	LSA18
Length	48.0" (1219mm)	72.5" (1841mm)	96.0" (2438mm)
Width	5.625" (142mm)		
Height	3.625" (92mm)		



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.