

Series Spec Sheet

LSS & L2STL LED STRIP WITH LENS GEN. 1

These high quality luminaires are equipped with a frosted lens that diffuses the light comfortably. The LSS & L2STL Series are a great option for retrofitting your traditional fluorescent linear luminaires to balance performance, aesthetics, and cost.

FEATURES AND SPECIFICATIONS

• Construction

Housing & finishing

- Sleek and compact design ideal for installation in tight spaces
- White powder painted steel
- Contoured frosted PMMA diffuser
- Enclosed lens prevents penetration of dust, insects and other debris into the LED compartment

Mounting options

Surface, suspended or row mounted (see accessories)

• LSS Series

Technical specifications

- Long life LEDs that provide 80 CRI are available in 5 000 K color temperature
- 0-10 V dimming standard
- V-Hooks and canopy plate for octagonal junction box are included
- Estimated lifespan of over 100,000 hours to L70
- Ambient temperature: -30° C to +55° C
- Suitable for damp locations

• Compliances – LSS Series

- Meets requirements of ICES005 issue 4 for class A products
- Meets FCC requirements
- cULus

• L2STL Series

Technical specifications

- Long life LEDs that provide 80 CRI are available in 3 000 K, 3 500 K, 4 000 K & 5 000 K color temperature
- 0-10 V dimming standard
- Canopy plate for octagonal junction box is included
- Estimated lifespan of over 100 000 hours to L70
- Ambient temperature:
 - Quick Ship ordering guide: -20° C to +50° C
 - Configurable ordering guide: -40° C
 - LINK option: -40° C to +25° C
- Suitable for damp locations

LINK

- This unit can be used as an emergency backup unit powered from a stand-alone battery unit. Please view the LINK brochure for more details on this technology.
- Patent Pending

• Compliances – L2STL Series

- Meets requirements of ICES005 issue 4 for class A products
- cULus
- CSA C22.2 No. 250.0
- CSA Certified to C22.2#141-15 (When used with EL option)



OVERVIEW

Light source	LED
Watts (W)	22 - 144
Lumen output (lm)	2 530 - 17 981
Efficiency (lm/W)	101.5 - 142
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80
Weight (lbs)	48": 5.51, 96": 10.36



Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

¹ L2STL series only.

² 5 year warranty for the LINK module.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE  1

Order code	Description	DLC unique ID	Watts (W)	Volts (VAC)	Color temp. (K) ²	Lumen output (lm) ³	Efficiency (lm/W)	CRI	Life L70 (hrs) ⁴	Tested hours LM-80 (hrs) ⁴	Dimming (Yes/No)	Power factor	THD (%)	Case qty (master)
48" L2STL-48LS2-W/40K		PF78RPQW	22	120-277	4 000	2 530	115	80	100 000	9 000	Yes	0.90	20	6
96" L2STL-96LS2-W/35K		P86B5K9R	40	120-277	3 500	4 550	114	80	100 000	9 000	Yes	0.90	20	1
66873	LSS/8FT/65W/50K/120-277/A1/STD	PQFLLA4I	65	120-277	5 000	8 645	133	80	100 000	6 000	Yes	0.90	10	1

¹ **QUICK SHIP:** Product availability is subject to change without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

² Typical color temperature range: +/- 5 %.

³ Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

⁴ Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

CONFIGURABLE ORDERING GUIDE - L2STL SERIES

Series	Size	Lamp type	Lumen package delivered ¹	Volts (V)	Color temperature (K)	Options
L2STL	48 - 48"	L - LED	S2A - 2 530 lumens (22 W) S3A - 3 710 lumens (35 W) S4A - 4 206 lumens (30 W) S5A - 6 043 lumens (45 W) S6A - 8 990 lumens (72 W)	A - 120 H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	DIM2 - Line voltage dimming, driver 120 V ² DALI1 - Digital addressable lighting interface driver ³ OS - Occupancy sensor ⁴ EL - LINK ⁵
	96 - 96"		S2A - 5 100 lumens (44 W) S3A - 7 400 lumens (73 W) S4A - 8 413 lumens (60 W) S5A - 12 086 lumens (88 W) S6A - 17 981 lumens (144 W)			

¹See IES files for details.

²Not available for S6A.

³Not available for 48" S2A and 347 V.

⁴To see available options, please consult the occupancy sensors section.

⁵Emergency power conversion module. LINK is compatible with the following configurations only: L2STL-48LS2A, L2STL-48LS3A and L2STL-48LS4A.

LINK TECHNICAL SPECIFICATION TABLE - L2STL SERIES

Size	Lumen package	LINK Watts (W)	3 000 K	3 500 K	4 000 K	5 000 K
			LINK Lumen output (lm)	LINK Lumen output (lm)	LINK Lumen output (lm)	LINK Lumen output (lm)
48"	S2A	11	783	783	783	783
	S3A	11	746	746	746	746
	S4A	11	848	848	848	848

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

TECHNICAL SPECIFICATION TABLE - L2STL SERIES

Size	Lumen package	Watts (W)	Volts (V)	3 000 K		3 500 K		4 000 K		5 000 K		CRI	Life L70 (h)	LM-80 Tested Hours (h)	Power factor	THD (%)
				Lumen output (lm)	Efficiency (lm/W)	Lumen output (lm)	Efficiency (lm/W)	Lumen output (lm)	Efficiency (lm/W)	Lumen output (lm)	Efficiency (lm/W)					
48"	S2A	22	120	2 530	114	2 530	115	2 530	115	2 530	115	80	172 000	10 000	0.99	9.91
			120-277	2 530	114	2 530	115	2 530	115	2 530	115	80	172 000	10 000	0.99	9.91
			347	2 530	110	2 530	110	2 530	110	2 530	110	80	172 000	10 000	0.96	13.47
	S3A	35	120	3 710	108	3 710	108	3 710	108	3 710	108	80	172 000	10 000	1.00	7.57
			120-277	3 710	108	3 710	108	3 710	108	3 710	108	80	172 000	10 000	1.00	7.57
			347	3 710	107	3 710	107	3 710	107	3 710	107	80	172 000	10 000	0.98	11.40
	S4A	30	120	4 190	142	4 190	142	4 190	142	4 190	142	80	172 000	10 000	0.99	5.40
			120-277	4 190	142	4 190	142	4 190	142	4 190	142	80	172 000	10 000	0.99	5.40
			347	4 190	135	4 190	135	4 190	135	4 190	135	80	172 000	10 000	0.96	12.47
	S5A	45	120	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	1.00	4.82
			120-277	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	1.00	4.82
			347	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	0.97	10.40
S6A	72	120	8 954	124	8 954	124	8 954	124	8 954	124	80	172 000	10 000	1.00	5.56	
		120-277	8 954	124	8 954	124	8 954	124	8 954	124	80	172 000	10 000	1.00	5.56	
		347	8 900	124	8 900	124	8 900	124	8 900	124	80	172 000	10 000	0.98	9.65	
96"	S2A	44	120	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	1.00	5.73
			120-277	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	1.00	5.73
			347	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	0.98	8.99
	S3A	73	120	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	1.00	5.73
			120-277	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	1.00	5.73
			347	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	0.98	8.99
	S4A	60	120	8 380	142	8 380	142	8 380	142	8 380	142	80	172 000	10 000	0.99	5.4
			120-277	8 380	142	8 380	142	8 380	142	8 380	142	80	172 000	10 000	0.99	5.4
			347	8 380	135	8 380	135	8 380	135	8 380	135	80	172 000	10 000	0.96	12.47
	S5A	88	120	12 038	138	12 038	138	12 038	138	12 038	138	80	172 000	10 000	1.00	4.82
			120-277	12 038	138	12 038	138	12 038	138	12 038	138	80	172 000	10 000	1.00	4.82
			347	12 038	137	12 038	137	12 038	137	12 038	137	80	172 000	10 000	0.97	10.4
S6A	144	120	17 908	124	17 908	124	17 908	124	17 908	124	80	172 000	10 000	1.00	5.56	
		120-277	17 908	124	17 908	124	17 908	124	17 908	124	80	172 000	10 000	1.00	5.56	
		347	17 800	125	17 800	125	17 800	125	17 800	125	80	172 000	10 000	0.98	9.65	

ACCESSORIES (order separately)

Order code	Description	Type	Compatible with
LSS Series			
66741	LST4/ACC/WG/STD	Wireguard kit 48"	48" LSS & L2STL
66742	LST8/ACC/WG/STD	Wireguard kit 96"	96" LSS & L2STL
67340	LST/ACC/BRACKET/STD	Continuous row mounting aligner for suspended installation	All LSS & L2STL
L2STL Series			
HAR766		V-Hooks (2 pieces)	All LSS & L2STL
BKT604		Continuous row mounting aligner for suspended installation	All LSS & L2STL
WGD055-48-SL		Wireguard kit 48"	All LSS & L2STL ¹
BKT347		Suspension kit - 2 chains (1 metre)	All LSS & L2STL
LEN261-4		Replacement lens 48"	All LSS & L2STL ¹

¹ For 96" luminaires, order 2 units

COMPATIBLE DIMMERS
LSS Series

Brand	Model number
Leviton	IPL710-DL (120-277V Only)
Lutron	NFTV, NTFTV
Standard	61989 Transceiver

L2STL Series

Brand	Model number
Leviton	ILLUMATECH IP710-LFZ
Lutron	DIVADVSTV
Lutron	Maestro MS-Z101
Lutron	Nova T NTSTV
Philips	Sunrise SR1200ZTUNV

NOTE: This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Stanpro recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation. Some dimmers may require more than one product for stable operation. The maximum number of products is determined by the dimmer wattage rating with LEDs. Be careful, these dimmers have different ratings depending on the product type. Again, refer to the dimmer installation instructions.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

OCCUPANCY SENSORS - L2STL SERIES

ON-OFF SENSORS

Detection - On at (*Detection Area*) % during (*Hold Time*) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Daylight min level (lux)	Remote ¹
OSE-PO-0301	External	120-347	PIR	20-40	100	20	N/A	
OSE-PO-0501	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100
OSE-PO-0502	External	120-347	PIR	15-40	100	15	3 000	
OSI-FO-0301	Internal	120-277	High Frequency	32 max	100	20	Disable	
OSI-FO-0601	Internal	120-347	High Frequency	25 max	100	30	Disable	68681

BI-LEVEL SENSORS

Detection - On at (*Detection Area*) % during (*Hold Time*) min., then (*Stand-by Dim level*) %

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Daylight min level (lux)	Remote ¹
OSI-FB-0301	Internal	120-277	High Frequency	32 max	100	20	30	Disable	
OSI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable	
OSI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable	
OSI-FB-0601	Internal	120-347	High Frequency	25 max	100	30	30	Disable	68681
OSI-FB-0602	Internal	120-347	High Frequency	25 max	100	30	10	Disable	68681
OSI-FB-0603	Internal	120-347	High Frequency	25 max	100	15	40	Disable	68681
OSI-FB-0604	Internal	120-347	High Frequency	25 max	100	30	40	Disable	68681

TRI-LEVEL SENSORS

Detection - On at (*Detection Area*) % during (*Hold Time*) min., then (*Stand-by Dim level*) % during (*Stand-by period*) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Stand-by period (min)	Daylight min level (lux)	Remote ¹
OSI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable	
OSI-FT-0601	Internal	120-347	High Frequency	25 max	100	30	30	10	Disable	68681

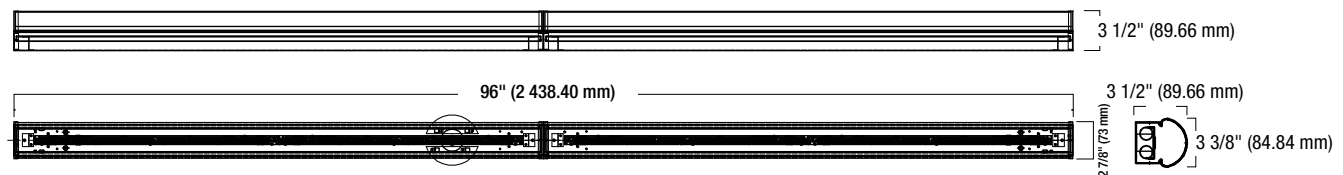
¹ To be ordered separately.

DIMENSIONS

48"



96"



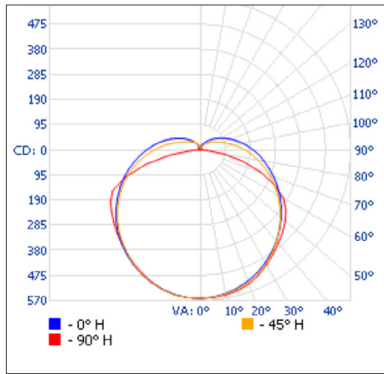
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PHOTOMETRIC DATA¹

L2STL SERIES

L2STL-48LS2-XX-40K • 2556.0lm

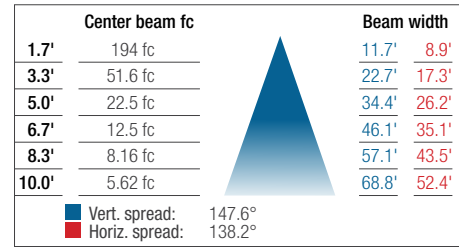
Polar candela distribution



Zonal lumen summary

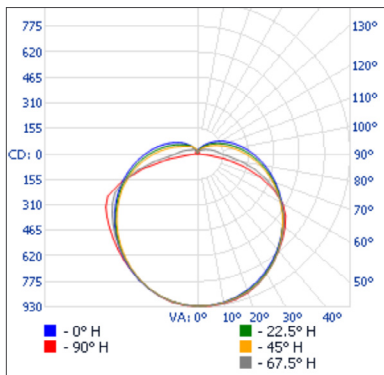
Zone	Lumens	% Fixture
0-30	446.8	17.5%
0-40	746.6	29.2%
0-60	1424.3	55.7%
60-90	759.7	29.7%
70-100	568.9	22.3%
90-120	281.7	11%
0-90	2184.0	85.4%
90-180	372	14.6%
0-180	2556.0	100%

Illuminance at a distance



L2STL-48LS4A-XX-40K • 4206.4lm

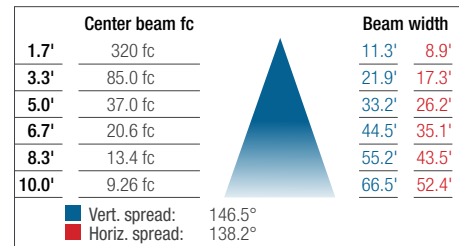
Polar candela distribution



Zonal lumen summary

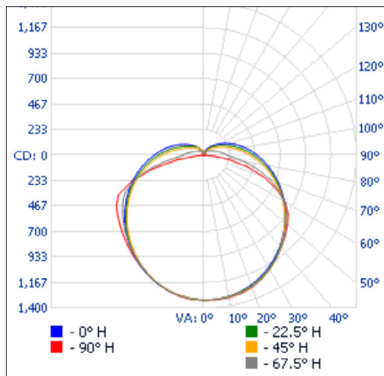
Zone	Lumens	% Fixture
0-30	736.1	17.5%
0-40	1230.4	29.3%
0-60	2344.8	55.7%
60-90	1249.8	29.7%
70-100	934.3	22.2%
90-120	462.8	11%
0-90	3594.6	85.5%
90-180	611.8	14.5%
0-180	4206.4	100%

Illuminance at a distance



L2STL-48LS5A-XX-40K • 6043.2lm

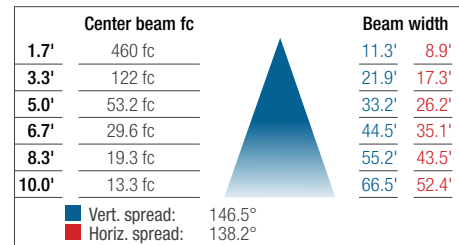
Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1057.5	17.5%
0-40	1767.7	29.3%
0-60	3368.7	55.7%
60-90	1795.5	29.7%
70-100	1342.3	22.2%
90-120	664.9	11%
0-90	5164.2	85.5%
90-180	879	14.5%
0-180	6043.2	100%

Illuminance at a distance



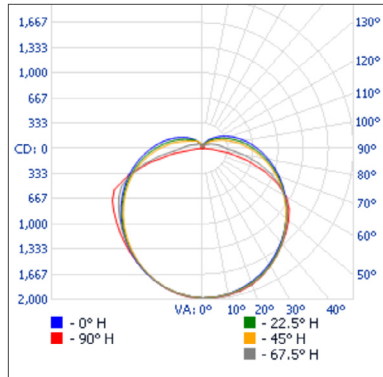
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹

L2STL-48LS6A-XX-40K • 8990.3lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1573.2	17.5%
0-40	2629.8	29.3%
0-60	5011.5	55.7%
60-90	2671.1	29.7%
70-100	1996.9	22.2%
90-120	989.2	11%
0-90	7682.7	85.5%
90-180	1307.6	14.5%
0-180	8990.3	100%

Illuminance at a distance

Center beam fc		Beam width	
1.7'	685 fc	11.3'	8.9'
3.3'	182 fc	21.9'	17.3'
5.0'	79.2 fc	33.2'	26.3'
6.7'	44.1 fc	44.5'	35.1'
8.3'	28.7 fc	55.2'	43.5'
10.0'	19.8 fc	66.5'	52.4'

■ Vert. spread: 146.5°
■ Horiz. spread: 138.2°

¹ Complete IES files available on our website.

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