emLITE

Premium Lensed LED Strip Light Series SSL

REV #: 03.22.04

OVERVIEW

The SSL Series are surface mounted lensed LED strip lights designed as direct replacements for fluorescent strips. This high-efficient luminaire provides long-life and uniform illumination. Easy installation in new construction or retrofit. The optional factory-installed Signtex Emergency Lighting Control option ensures full emergency code compliance at the lowest possible cost.

PROJECT:

TYPE:

CATALOG #:

SPECIAL FEATURES

- **Emergency lighting from 650 Lm to 1,820 Lm with adjustable Emergency Lighting Control (ELC), powered from a Signtex low-voltage central battery system. See Page 3 for details.**
- Available in 3500k (warm/ neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 190,000 hours of operation with at least 70% of initial lumen output (L70).**
- Efficacy range from 128 to 135 Lm/watt.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming capability is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Steel housing and PMMA lens.
- Easy installation in new construction or retrofit.

* Contact factory for other color temperatures and lumen packages.

** L70 hours are IES TM-21-11 calculated hours.

WARRANTY & LISTINGS

- ULus approved for damp locations in ambient temperatures from (-20°C to 50°C / -4°F to 122°F)*
- Complies with FCC Part 15, Class A
- Low risk of flicker per IEEE1789-2015 at 100% light output
- Complies with IEEE C.62.41-1991, Class A input transient surge protection (2.0kV)
- Complies with RoHS (Restriction on Hazardous Substances) requirements
- View Signtex Warranty for further details

DAMP 2.5KV SURGE PROTECTION CB Central Battery ELC

FIXTURE ORDERING INFORMATION *EXAMPLE:* SSL-2-25L-MV-35K-ELC10P2

SSL

SERIES	LENGTH- LUMENS[2]	VOLTAGE	COLOR TEMPERATURE	OPTIONS
SSL	2-25L 22.2”- 2500Lm 3-33L 35”- 3300Lm 4-46L 47.3”- 4600Lm 8-80L 94.2”- 8000Lm	MV 120/277 VAC 48V 48 VDC	35K 3500K 40K 4000K 50K 5000K	ELC X P2[1] Emergency Lighting Control OS Occupancy Sensor Passive Infared[2] WG Wire Guard

[1]X = Emergency Power Rating (Watts): See OPTIONS Table Pg 3

[2]Contact factory for other sensors

Signtex Inc LIGHTING SPECIFIED EMERGENCY LIGHTING

ELECTRICAL DATA

MODEL	COLOR TEMP.	CRI[1]	LUMINAIRE LUMENS	LUMINAIRE WATTS	LUMENS/ WATT	INPUT VOLTAGE[2]	INPUT CURRENT (A)			POWER FACTOR	THD[3]	L70 HOURS[4]
							120V	240V	277V			
SSL-2-25L-MV-35K	3500K	>80	2,545	20	129	120-277	0.17	0.08	0.07	> 90%	< 20%	190,000
SSL-2-25L-MV-4K	4000K	>80	2,527	20	128	120-277	0.17	0.08	0.07	> 90%	< 20%	190,000
SSL-2-25L-MV-5K	5000K	>80	2,540	20	129	120-277	0.17	0.08	0.07	> 90%	< 20%	190,000
SSL-3-33L-MV-35K	3500K	>80	3,279	25	132	120-277	0.21	0.10	0.09	> 90%	< 20%	190,000
SSL-3-33L-MV-4K	4000K	>80	3,264	25	132	120-277	0.21	0.10	0.09	> 90%	< 20%	190,000
SSL-3-33L-MV-5K	5000K	>80	3,333	25	135	120-277	0.21	0.10	0.09	> 90%	< 20%	190,000
SSL-4-46L-MV-35K	3500K	>80	4,577	34	133	120-277	0.28	0.14	0.12	> 90%	< 20%	190,000
SSL-4-46-MV-4K	4000K	>80	4,615	34	134	120-277	0.28	0.14	0.12	> 90%	< 20%	190,000
SSL-4-46L-MV-5K	5000K	>80	4,600	34	133	120-277	0.29	0.15	0.13	> 90%	< 20%	190,000
SSL-8-80L-MV-35K	3500K	>80	9,002	65	138	120-277	0.53	0.27	0.23	> 90%	< 20%	190,000
SSL-8-80L-MV-4K	4000K	>80	8,884	64	138	120-277	0.53	0.27	0.23	> 90%	< 20%	190,000
SSL-8-80L-MV-5K	5000K	>80	8,765	64	138	120-277	0.53	0.27	0.23	> 90%	< 20%	190,000

[1] Color rendering index.
[2] All 50-60Hz.
[3] Total harmonic distortion.
[4] L70 refers to the number of hours at which lumen output declines to 70% of the initial level. L_{70} hours are IES TM-21-11 calculated hours.

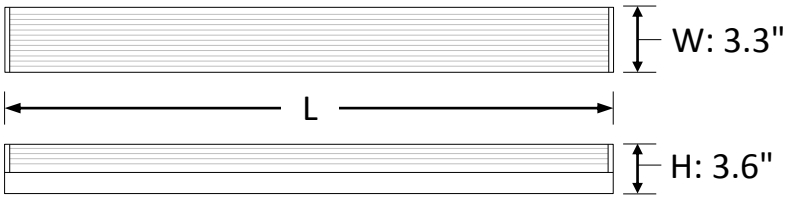
PHOTOMETRIC DATA

• IES Files and Zonal Lumen Summaries and Polar Diagrams

COMPATIBLE DIMMERS

MANUFACTURE	MODEL NO.	DIMMING RANGE	LOAD SWITCHING CAPACITY
Lutron	DVSTV	10% - 100%	450W
Leviton	IP710-LFZ	10% - 100%	120W
General Protecht	DMD-LED3-102	10% - 100%	600W

DIMENSIONS



	SSL-2	SSL-3	SSL-4	SSL-8
Length– L	22.2”	35”	47.3”	94.2”
Weight (lbs.)	**2.6**	**3.7**	**5.3**	**10.4**

EMERGENCY LIGHTING CONTROLS (ELC)

ELC converts any LED luminaire to emergency lighting operation, powered from a Signtex Central Battery System (purchased separately). All Signtex Central Battery Systems include self-diagnostics, with MARS™ fully automatic Monitoring and Reporting System option available.
ELC is listed in compliance with UL Standard 924, for field or factory installation in the Fire and Electrical Enclosure of any LED fixture.

OPTIONS

MODEL	OPTION CODE		
	ELC5P2	ELC10P2	ELC14P2
	EM Lumens[1]	EM Lumens	EM Lumens[2]
SSL2	650	1300	1820
SSL3	650	1300	1820
SSL4	650	1300	1820
SSL8	650	1300	1820

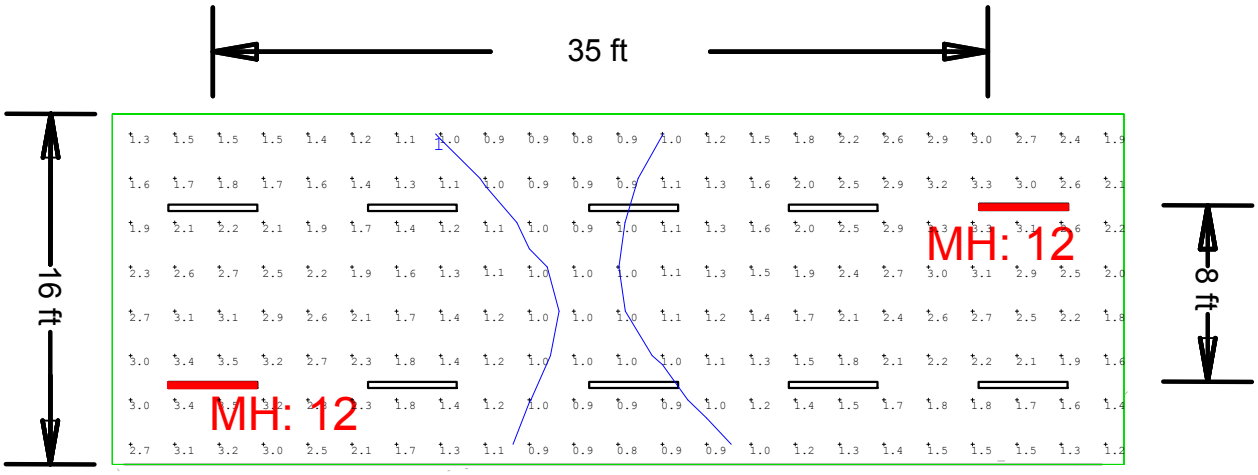
[1] Minimum [2] Maximum
Note: Lumen output is factory adjustable. Contact factory for specific values.
Learn more about ELC's on our website, www.signtexinc.com.

Emergency Lighting with ELC

The following Point-to-Point sample shows typical performance in the medium power range for both fixture and ELC, based on IES files and using a light loss factor (LLF) calculated as follows:

LIGHT LOSS FACTOR = ELC Emergency Power (Watts)*/ Fixture Normal Power (Watts)
LLF = ELC Emergency Power* (Watts) / Fixture Normal Power (Watts) ***Power value and ELC Type are given in the OPTION CODE above.**
Example: ELC10P1 = 10 Watts Emergency Power for 90 mins: Package Type P1

The calculation is based on illumination values given in NFPA 101 and NEC 70, which stipulate an initial minimum average of 1 Fc at floor level, a minimum of 0.1 Fc at any point, and a uniformity ratio no higher than 40:1. NOTE, values are allowed to decrease 40% after 90 minutes, but ELC is a constant power device so emergency illumination does NOT decrease.



MODEL	ELC OPTION #	ELC POWER	EMERGENCY LUMENS	LLF	MOUNT HEIGHT	AVG. LUMENS ON PATHWAY	MAX/MIN UNIFORMITY
SSL4	ELC10P2	10 Watts	1320	0.30	12 FT	1.83 Fc	4.38