StencilFlex®

SECTION VIEW

1 1/8"

Project _____

Type _____

Notes _____

Architectural SSL Magazine
PIA'22 product innovation award

Empower   SurroundLite™   c(UL)us Listed

Please specify location of inserts on system configuration drawing within the framework. Limitations with curve segment (see page 3)

AVAILABLE LENGTHS

22 1/4"
5'

33 5/16"
6'

46 1/4"
7'

48 1/8"
7.5'

57 1/4"
8'

Ordering Guide

	SFLISL							
	PRODUCT ID	**TOTAL LENGTH**	**TOTAL LUMENS/FT**	**CRI**	**COLOR TEMP.**	**VOLTAGE**	**CONTROLS**	**FINISH**
SFLISL	StencilFlex® Indirect SurroundLite Insert	**5** 5' **6** 6' **7** 7' **7.5** 7.5' **8** 8'	**175** 175 lm/ft **250** 250 lm/ft **350** 350 lm/ft **500** 500 lm/ft **700** 700 lm/ft **1000** 1000 lm/ft *	**80** 80 CRI **90** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K	**120** 120 V **277** 277 V	**DP** integral driver 0-10V dimming (1%) - wired* **DALIDT6** integral driver DALI 2.0 Type 6 - wired **EP(#)** integral driver for Empower wireless with integral sensor / control module**	**BLK** black **AP** aluminum paint **W** white **C(#)** custom*
		See performance table below for compatible lumen outputs.	The lumen/ft is calculated based on the lit section of the segment, see available length image above for details. *Not available for 8 foot length, see performance table below.				* Available with multicircuit wiring. ** See page 2 for supported platforms.	! Please ensure that your insert finish matches your framework finish selection (see Framework (SFF) spec sheet). * SoftZone panels matching colors available. For more information see StencilFlex® SoftZone spec sheet.

EMERGENCY (OPT.)
E(1) emergency section

STENCILFLEX® LINEAR INSERTS EFFICACY

Tested at 4ft, 3500K, 80 CRI using 120V with a +/- 10% tolerance. See CRI and CCT conversion table below.

INDIRECT	5FT (2ft light)			6FT (3ft light)			7FT (4ft light)			7.5FT (4ft light)			8FT (5ft light)		
	Lumens	Watts	Efficacy	Lumens	Watts	Efficacy	Lumens	Watts	Efficacy	Lumens	Watts	Efficacy	Lumens	Watts	Efficacy
175 lm/ft	350	5	70	525	6.9	76	700	8.8	80	700	8.8	80	875	10.8	81
250 lm/ft	500	6.9	72	750	9.8	77	1000	13	77	1000	13	77	1250	15.9	79
350 lm/ft	700	8.8	80	1050	13	81	1400	17	82	1400	17	82	1750	21.2	83
500 lm/ft	1000	13	77	1500	19.1	79	2000	25.6	78	2000	25.6	78	2500	32.3	77
700 lm/ft	1400	17	82	2100	25.6	82	2800	34.6	81	2800	34.6	81	3500	44.7	78
1000 lm/ft	2000	25.6	78	3000	39.5	76	4000	56.2	71	4000	56.2	71	not available		

Lumen Conversion Table				
CRI	Color Temperature			
	2700K	3000K	3500K	4000K
80 CRI	0.94	0.98	1	1.04
90 CRI	0.83	0.87	0.87	0.88

Patent number: 11,118,765

November 1, 2023

FILE NAME:Stencil-Flex-LI-SL.SPEC

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● CONSTRUCTION

Housing and Blanks	Extruded aluminum (0.070'' nominal)
Optics	Extruded acrylic

● MODULE LENGTHS

Indirect SurroundLite modules are available in lengths of 5', 6', 7.5', and 8'. Note that the lighting portion is shorter then the insert length. See diagram below.
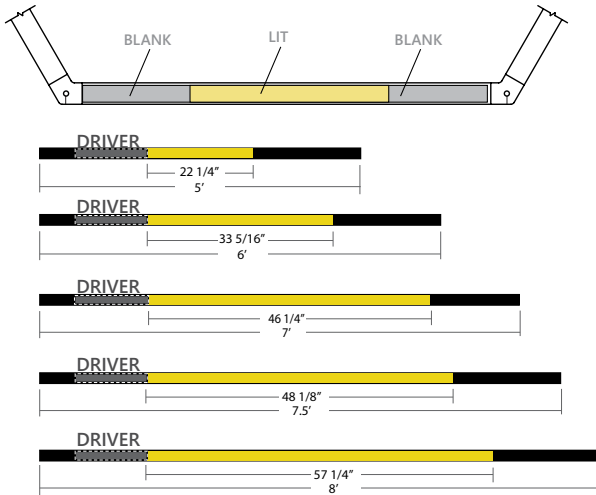

● LIGHT GUIDE

High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

● FINISH

Powder coated black, white, aluminum and custom finishes are available.
! Please ensure that your insert finish matches your framework finish selection (see Framework (SFF) spec sheet).
Please note, that AxisTrak™ inserts and decoratives are only available in white or black. SoftZone panels matching colors available. For more information see StencilFlex® SoftZone spec sheet.
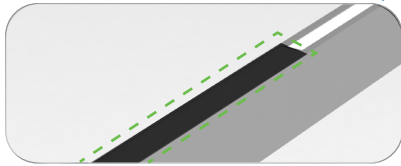
● WEIGHT

Estimated insert weight per linear foot	0.45 lbs/ft

● APPROVALS

Certified to cULus standards.
Certified under UL1598.

● WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

● LED SYSTEM

CRI	Minimum 80 or 90 color rendering index
CCT	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse).
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.

● ELECTRICAL (INSERT WIRING)

Connection (IMW)	Patented integral modular wiring connection. One connection per insert. (see drawing) Designed to work with StencilFlex® framework wired for IMW (0-10V).
Connection (IMWD)	Patented integral modular wiring connection. One connection per insert. (see drawing) Designed to work with StencilFlex® framework wired for IMWD (DALI 2.0 DT6).
Connection (IMWEP)	Patented integral modular wiring connection. One connection per insert. (see drawing). Designed to work with StencilFlex® framework wired for IMWEP (Empower wireless sensor and control).
Emergency (E)	Emergency circuit optional. All emergency inserts have dedicated wiring and are fixed on the framework. Their location does not move. UL 924 devices are in____d within that emergency segment. For Empower wireless UL 924 approved devices are used in Emergency Inserts, to provide full output in an emergency condition.
Input Voltage	120V, 277V
DP driver	StencilFlex® insert includes an Axis integral DP driver. 0-10V 1% dimming standard.
DALIDT6 driver	StencilFlex® insert includes an Axis integral DALI driver. DALI Type 6 standard. DALI 2.0 D4i certified driver.
Empower driver and sensor / control module (EP)	StencilFlex® insert includes an Axis integral D4i driver and sensor / control module dimming standard.

ⓘ Incorporating these components may have limitations or affect the length of the luminaire, please contact factory for more details.

● EMPOWER WIRELESS SYSTEM SELECTION

StencilFlex® framework supports Empower wireless control. All of the control elements are included with the inserts. The Integral Modular Wiring (IMW™) provides the power to the Empower devices, adding the freedom of resolution of one control.

Quick Select:

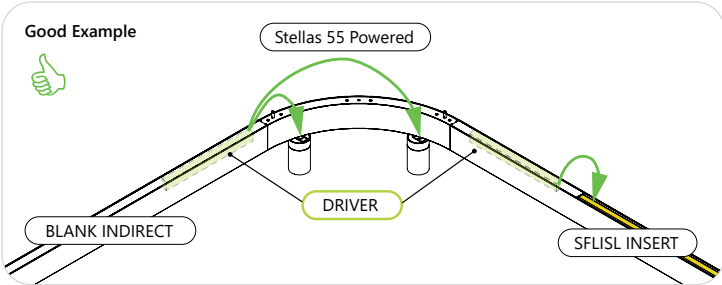|	
EP(L,WC,1,D4I)	Lutron Vive with D4i DALI Driver without sensor
EP(L,PWC,2,D4I)	Lutron Vive with D4i DALI Driver with sensor
EP(L,WC,3,D4I)	Lutron Athena RF node with D4i DALI Driver
EP(L,PWC,4,D4I)	Lutron Athena with D4i DALI Driver, with sensor
EP(E,PWC,2,D4I)	Enlighted SU-5E-CL with D4i DALI Driver
EP(E,PWC,3,D4I)	Enlighted SU-5E-IOT with D4i DALI Driver
EP(O,PWC,1,D4I)	OSRAM SensiLUM with D4i DALI Driver

NOTE: See IC CONTROL GUIDE for more information on Empower partners and compatibility.
! Please make sure to select SAME system as you have selected for the Framework.

Patent number: 11,118,765

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

2 / 5
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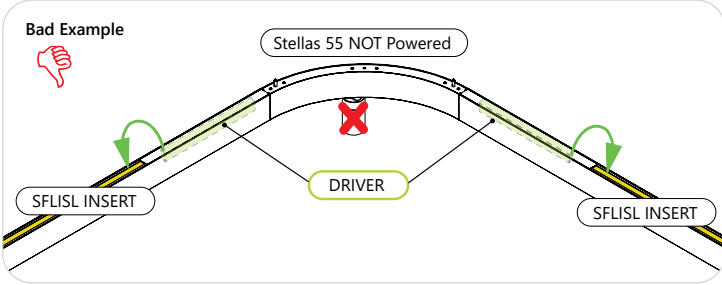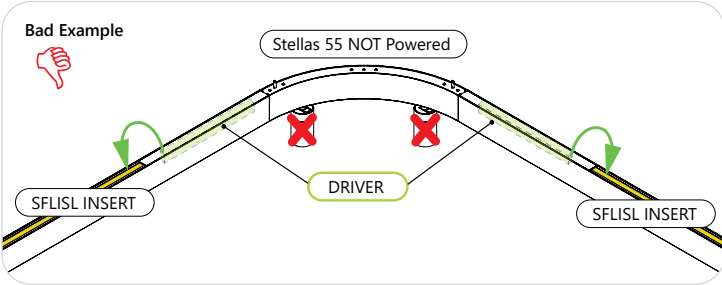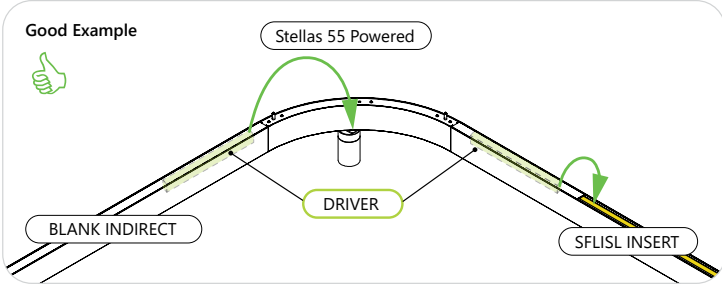1.800.263.2947
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● LIMITATIONS WITH CURVE SEGMENT

<u>NOT AVAILABLE:</u> Installation of two Surroundlite Indirect Inserts adjacent to a Curve segment with one or two Stella 55. See below.

Curve segment with 2 Stella 55

Good Example

Stellas 55 Powered

DRIVER

BLANK INDIRECT

SFLISL INSERT

Bad Example

Stellas 55 NOT Powered

DRIVER

SFLISL INSERT

SFLISL INSERT

Curve segment with 1 Stella 55

Good Example

Stellas 55 Powered

DRIVER

BLANK INDIRECT

SFLISL INSERT

Bad Example

Stellas 55 NOT Powered

DRIVER

SFLISL INSERT

SFLISL INSERT

Curve segment Blank

Good

BLANK Curve segment

DRIVER

SFLISL INSERT

SFLISL INSERT

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StencilFlex®
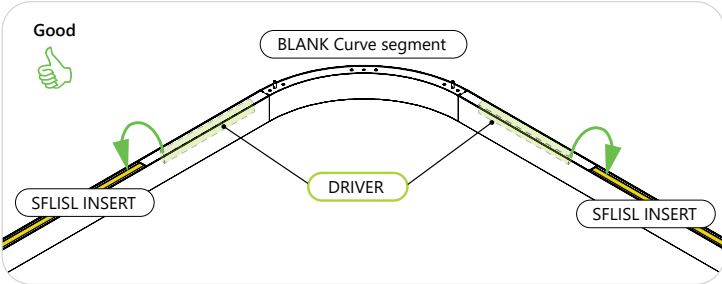
SPECIFICATION EXAMPLE
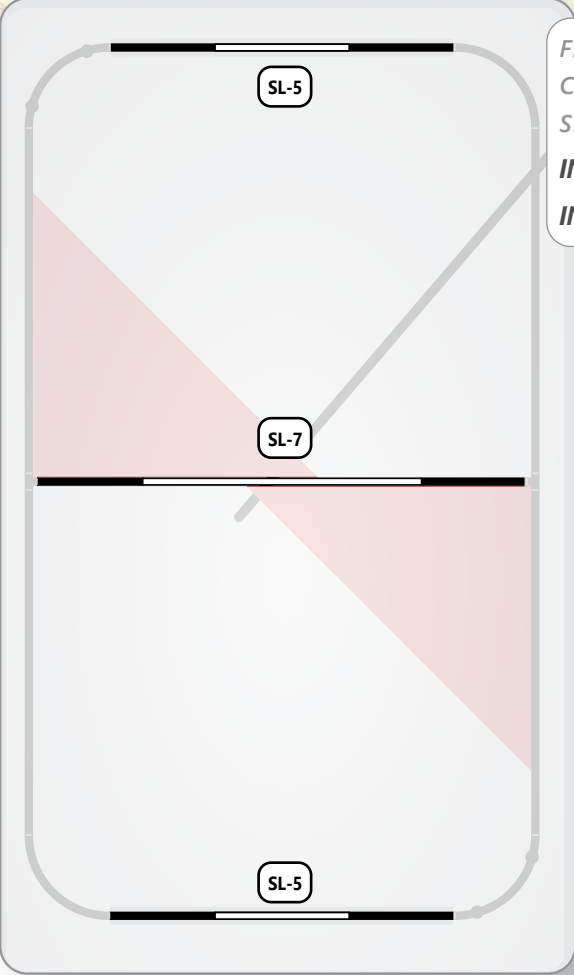
Follow ordering guide to specify

EXAMPLE CODE

FRAMEWORK: SFF-L(37)-LC90(2)+LC902ST55(2)+T90(2)-BLK-120-IMW-1-CA(36)-RC

SPOT LIGHTS: TDST55-MB-1600-90-35-BLK-LC902ST55 (QTY. 4)

INDIRECT INSERT: SFLISL-5-500-80-35-120-DP-BLK (Qty. 2)

INDIRECT INSERT: SFLISL-7-500-80-35-120-DP-BLK

SL-5

SL-7

SL-5

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4 / 5

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● PHOTOMETRIC DATA - INDIRECT

700 lm/ft

PHOTOMETRIC CURVE
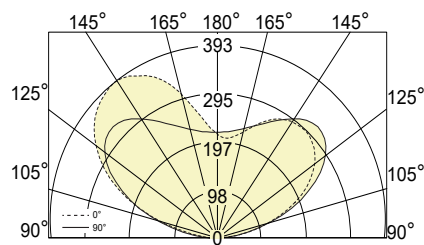
Indirect Output: 700 lm/ft
Total Lumens: 1285 lm (for 5ft insert)
Input Watts: 15 W
Efficacy: 87 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: SFLISL-5-700-80-35.IES
TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	24	23	24	24	26	65	53	41	34
105	124	115	102	108	128	265	255	278	285
115	212	198	179	193	230	472	470	520	534
125	271	255	235	252	301	639	648	695	699
135	297	282	264	276	323	732	762	795	794
145	293	282	266	265	299	719	789	823	820
155	265	256	242	237	260	627	704	748	757
165	223	218	213	216	232	529	578	620	626
175	207	207	209	212	219	465	476	483	483
180	217	217	217	217	217	446	446	446	446

ZONAL LUMENS

Zone	Lumens
90	
90-100	27
100-110	121
110-120	208
120-130	252
130-140	247
140-150	201
150-160	135
160-170	72
170-180	21
180	

● All IES files are available for download at: www.axislighting.com

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5 / 5
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