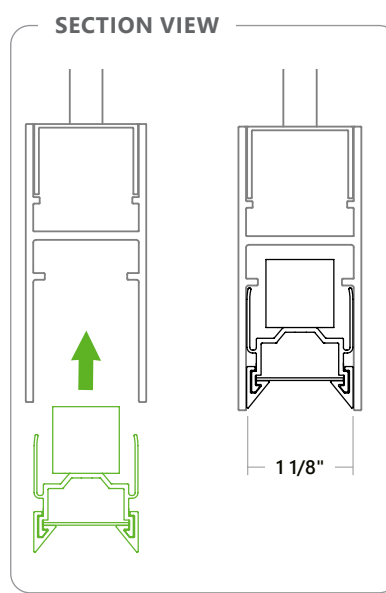
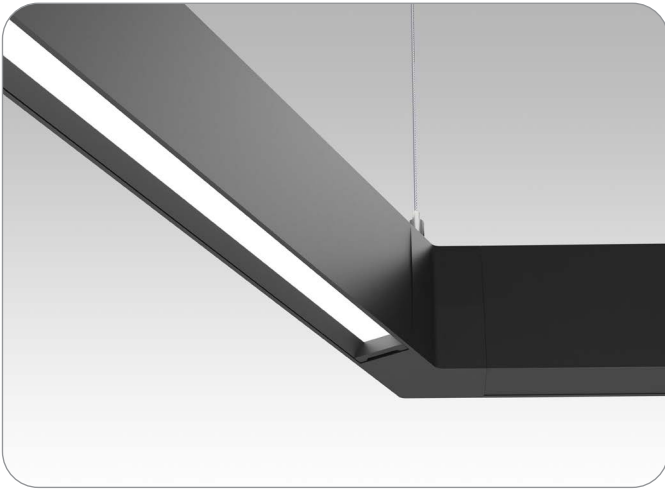




Project \_\_\_\_\_  
Type \_\_\_\_\_  
Notes \_\_\_\_\_



Please specify location of inserts on system configuration drawing within the framework

### Ordering Guide

| SFLDSORG   |                                                        |              |      |                 |           |     |        |             |        |
|------------|--------------------------------------------------------|--------------|------|-----------------|-----------|-----|--------|-------------|--------|
| PRODUCT ID |                                                        | TOTAL LENGTH |      | TOTAL LUMENS/FT |           | CRI |        | COLOR TEMP. |        |
| SFLDSORG   | StencilFlex® Direct Linear Insert<br>SO Regressed Lens | 3            | 3'   | 200             | 200 lm/ft | 80  | 80 CRI | 27          | 2700 K |
|            |                                                        | 4            | 4'   | 300             | 300 lm/ft | 90  | 90 CRI | 30          | 3000 K |
|            |                                                        | 5            | 5'   | 400             | 400 lm/ft |     |        | 35          | 3500 K |
|            |                                                        | 6            | 6'   |                 |           |     |        | 40          | 4000 K |
|            |                                                        | 7            | 7'   |                 |           |     |        |             |        |
|            |                                                        | 7.5          | 7.5' |                 |           |     |        |             |        |
|            |                                                        | 8            | 8'   |                 |           |     |        |             |        |

| CONTROLS                                                                           |                                                | END CAP FINISH                                                                                                                                                                                                                      |                | REGRESS FINISH |                | EMERGENCY (OPT.) |                   |
|------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|------------------|-------------------|
| DP                                                                                 | integral driver 0-10V dimming (1%)<br>- wired* | BLK                                                                                                                                                                                                                                 | black          | BLK            | black          | E(1)             | emergency section |
|                                                                                    | DALIDT6                                        | AP                                                                                                                                                                                                                                  | aluminum paint | W              | white          |                  |                   |
|                                                                                    | EP(#)                                          | W                                                                                                                                                                                                                                   | white          | AP             | aluminum paint |                  |                   |
| integral driver for Empower<br>wireless with integral sensor /<br>control module** |                                                | C(#)                                                                                                                                                                                                                                | custom*        | OGD            | optical gold   |                  |                   |
| * Available with multicircuit wiring.<br>** See page 2 for supported platforms.    |                                                | ! Please ensure that your end cap finish matches your<br>framework finish selection (see Framework (SFF) spec sheet).<br>* SoftZone panels matching colors available. For more<br>information see StencilFlex® SoftZone spec sheet. |                |                |                |                  |                   |

### STENCILFLEX® LINEAR INSERTS EFFICACY

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

| REGRESSED SO | 3FT    |       |          | 4FT    |       |          | 5FT    |       |          | 6FT    |       |          | 7FT    |       |          | 7.5FT  |       |          | 8FT    |       |          |
|--------------|--------|-------|----------|--------|-------|----------|--------|-------|----------|--------|-------|----------|--------|-------|----------|--------|-------|----------|--------|-------|----------|
|              | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy | Lumens | Watts | Efficacy |
| 200 lm/ft    | 600    | 6.9   | 87       | 800    | 8.8   | 91       | 1000   | 10.8  | 93       | 1200   | 13    | 92       | 1400   | 14.9  | 94       | 1500   | 15.9  | 94       | 1600   | 17    | 94       |
| 300 lm/ft    | 900    | 9.8   | 92       | 1200   | 13    | 92       | 1500   | 15.9  | 94       | 1800   | 19.1  | 94       | 2100   | 22.3  | 94       | 2250   | 23.9  | 94       | 2400   | 25.6  | 94       |
| 400 lm/ft    | 1200   | 13    | 92       | 1600   | 17    | 94       | 2000   | 21.2  | 94       | 2400   | 25.6  | 94       | 2800   | 30    | 93       | 3000   | 32.3  | 93       | 3200   | 34.6  | 92       |

| 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  |

## ● CONSTRUCTION

|                   |                                    |
|-------------------|------------------------------------|
| <b>Housing</b>    | Extruded aluminum (0.070" nominal) |
| <b>Reflectors</b> | Extruded aluminum                  |
| <b>Optics</b>     | Extruded acrylic                   |
| <b>End caps</b>   | Painted die-cast aluminum          |

## ● ELECTRICAL (INSERT WIRING)

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

**i** 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:

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

## ● LED SYSTEM

|                           |                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>CRI</b>                | Minimum 80 or 90 color rendering index                                                                                        |
| <b>CCT</b>                | Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse).     |
| <b>LED life</b>           | Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements. |
| <b>Thermal Management</b> | Aluminum housing acting as the heat sink to maximize life.                                                                    |
| <b>Performance</b>        | Up to 101 lm/W.                                                                                                               |

## ● REGRESSED REFLECTOR FINISH

Powder coated black, white, aluminum and optical gold finishes are available.

## ● END CAP FINISH

Powder coated black, white, aluminum and custom finishes are available.

**! Please ensure that your end cap 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** 0.375 lbs/ft

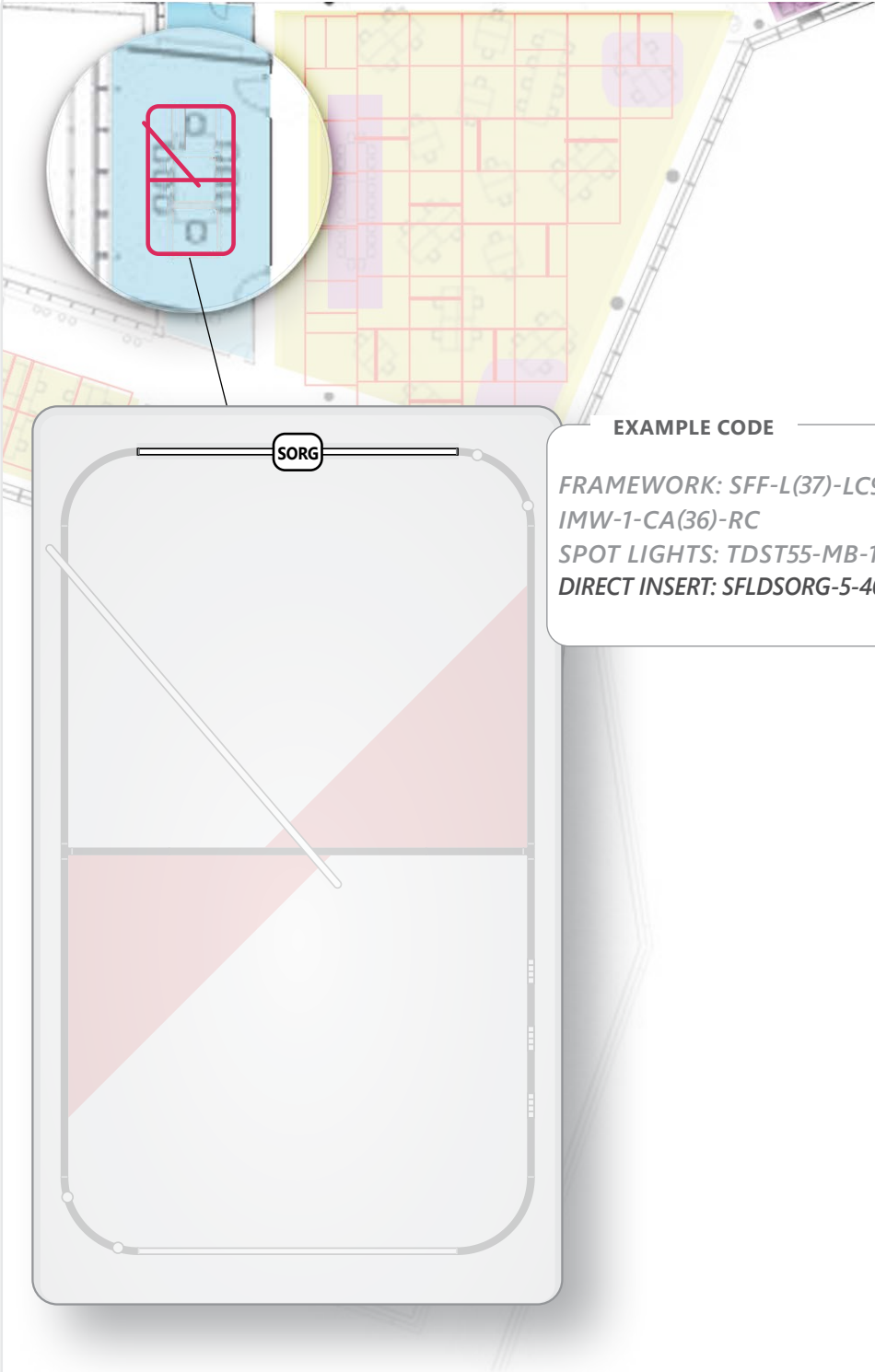
## ● APPROVALS

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](#).

SPECIFICATION EXAMPLE



Follow ordering guide to specify

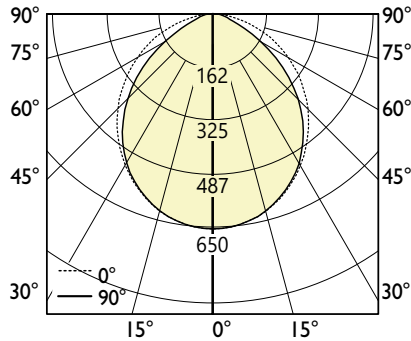
EXAMPLE CODE

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)*  
DIRECT INSERT: *SFLDSORG-5-400-80-35-120-DP-BLK*

## ● PHOTOMETRIC DATA - DIRECT

### Spotless Lens 400 lm/ft

#### PHOTOMETRIC CURVE



**Direct Output: 400 lm/ft**  
**Total Lumens: 1600 lm (for 4ft)**  
**Input Watts: 15.03 W**  
**Efficacy: 106 lm/W**

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.  
 IES FILE: SFLDSORG-4-400-80-35-BLK.ies  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     |
|----------------|-------------------|------|-----|------|-----|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |
| 0              | 650               | 650  | 650 | 650  | 650 |
| 5              | 646               | 646  | 646 | 646  | 646 |
| 15             | 617               | 617  | 617 | 617  | 617 |
| 25             | 564               | 563  | 562 | 560  | 559 |
| 35             | 491               | 490  | 486 | 479  | 475 |
| 45             | 406               | 404  | 393 | 374  | 364 |
| 55             | 312               | 309  | 284 | 249  | 233 |
| 65             | 213               | 206  | 162 | 119  | 106 |
| 75             | 112               | 98   | 54  | 45   | 45  |
| 85             | 26                | 18   | 16  | 15   | 15  |
| 90             | 1                 | 1    | 1   | 1    | 1   |

#### ZONAL LUMENS

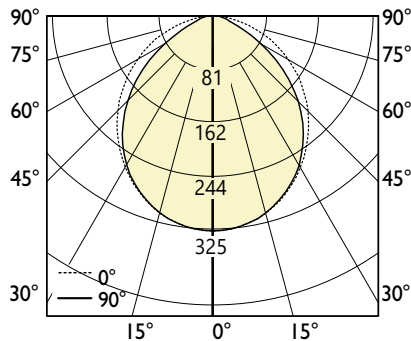
| Zone  | Lumens |
|-------|--------|
| 0     |        |
| 0-10  | 61     |
| 10-20 | 174    |
| 20-30 | 259    |
| 30-40 | 303    |
| 40-50 | 300    |
| 50-60 | 248    |
| 60-70 | 161    |
| 70-80 | 75     |
| 80-90 | 20     |
| 90    |        |

#### LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles |       |       |
|----------------|-------------------|-------|-------|
|                | 0                 | 45    | 90    |
| 45             | 16197             | 15680 | 14543 |
| 55             | 15374             | 13974 | 11459 |
| 65             | 14235             | 10821 | 7086  |
| 75             | 12238             | 5841  | 4952  |
| 85             | 8578              | 5119  | 4740  |

### Spotless Lens 200 lm/ft

#### PHOTOMETRIC CURVE



**Direct Output: 200 lm/ft**  
**Total Lumens: 800 lm (for 4ft)**  
**Input Watts: 7.5 W**  
**Efficacy: 107 lm/W**

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.  
 IES FILE: SFLDSORG-4-200-80-35-BLK.ies  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     |
|----------------|-------------------|------|-----|------|-----|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |
| 0              | 325               | 325  | 325 | 325  | 325 |
| 5              | 323               | 323  | 323 | 323  | 323 |
| 15             | 309               | 309  | 309 | 308  | 308 |
| 25             | 282               | 282  | 281 | 280  | 280 |
| 35             | 245               | 245  | 243 | 240  | 237 |
| 45             | 203               | 202  | 196 | 187  | 182 |
| 55             | 156               | 154  | 142 | 124  | 116 |
| 65             | 107               | 103  | 81  | 59   | 53  |
| 75             | 56                | 49   | 27  | 23   | 23  |
| 85             | 13                | 9    | 8   | 7    | 7   |
| 90             | 1                 | 1    | 1   | 1    | 1   |

#### ZONAL LUMENS

| Zone  | Lumens |
|-------|--------|
| 0     |        |
| 0-10  | 31     |
| 10-20 | 87     |
| 20-30 | 129    |
| 30-40 | 151    |
| 40-50 | 150    |
| 50-60 | 124    |
| 60-70 | 80     |
| 70-80 | 37     |
| 80-90 | 10     |
| 90    |        |

#### LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 8098              | 7840 | 7272 |
| 55             | 7687              | 6987 | 5729 |
| 65             | 7117              | 5410 | 3543 |
| 75             | 6119              | 2920 | 2476 |
| 85             | 4289              | 2560 | 2370 |

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)