

## SS-FW LED

Project Name:

Type:



## CASAMBI

## APPLICATION

The LED linear lowbay integrated with multiple mounting types is an efficient alternative to fluorescent lighting that enhances any commercial or industrial space. Low profile design offers easy handling and storage. This linear lowbay is suitable for storage areas, displays, institutions, industrial, retail shops, and other commercial applications.

## FEATURES:

- Die-formed steel channel with knock-outs for versatile configuration and simple mounting.
- 0.055" thickness acrylic frosted lens. Slide-in design.
- 1pc lens for 8ft housing.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.

## MOUNTING:

- Fixture is wall or surface mounted, or suspended mounted with chains, stems or cables.
- Rotatable mounting bracket is optional.
- Compatible with most ceiling types.

## LED:

- High quality array LEDs.
- LM80
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: > 82.8
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

## ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class2 circuit.
- Generic : 0-10V 10% dim. (GR)
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).

## &lt;ESRN&gt;

- UL924 Emergency Bypass Shunt Load Relay.
- Automatically turns on emergency egress lighting to full power/light output on loss of normal power, until normal power is restored.
- 120-277VAC, operating temp: -30°F (-34°C) to 140°F (60°C).

## LISTING:

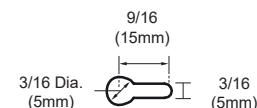
- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Suitable for damp locations.
- ADA compliant (less than 4" off wall).
- CEC Compliant EM (please contact for more information)
- ARRA compliant (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 5 years warranty.
- 7 or 10 years limited warranty. (optional) <sup>4</sup>
- Bluetooth Mesh System available, please contact factory for more information.

## Specifications: SS-FW-4

Weight: 6.5 lbs (3.5 kg)

## Specifications: SS-FW-8

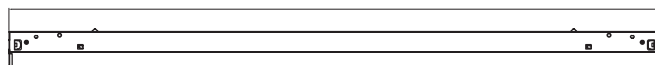
Weight: 13 lbs kg



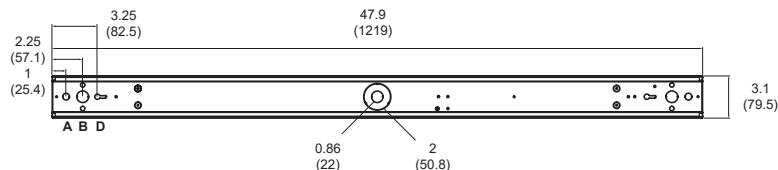
Surface Mount

A : 11/16 (17mm) Dia.  
B : 7/8 (22mm) Dia.  
D : 3/16 (5mm) Dia.

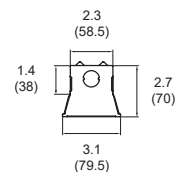
## SS-FW-4

47.9  
(1219)

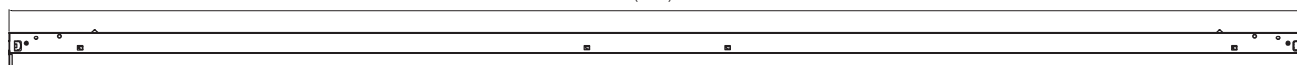
SIDE VIEW



TOP VIEW



## SS-FW-8

95.9  
(2436)3.1  
(79.5)

## SS-FW LED

## ORDERING INFORMATION

EXAMPLE: SS-FW-4-L54-40K-UNV-FW

| MODEL                                                                                                                                                    | LENGTH |                        |                                                                                        | LED                                      |                                                                  | COLOR TEMP.                          |                                                               | EFFICACY      |                                                                                                               | CRI           |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|----------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------|---------------|---------------------------------|
| SS-FW                                                                                                                                                    | 4      | 4' Length              | (Blank)<br>Wiring for Individual mount (Std.)                                          | L27<br>L36<br>L54<br>L72<br>14000LM      | 27W LED<br>36W LED<br>54W LED<br>72W LED<br>14,000 Lumen         | -27K<br>-30K<br>-35K<br>-40K<br>-50K | 2700K <sup>6</sup><br>3000K<br>3500K<br>4000K (Std.)<br>5000K | (Blank)<br>HE | Standard<br>High Efficacy  | (Blank)<br>C9 | 80+ CRI<br>90+ CRI <sup>7</sup> |
|                                                                                                                                                          | 8      | 8' Length <sup>1</sup> | CON<br>Wiring for Continuous mount<br>(Specify row/length and<br>number of power feed) | L27<br>L36<br>L54<br>L72<br>L108<br>L144 | 27W LED<br>36W LED<br>54W LED<br>72W LED<br>108W LED<br>144W LED |                                      |                                                               |               |                                                                                                               |               |                                 |
| * Number of circuit(s) should be determined by the customer prior to ordering the continuous run considering the AC input voltage and total run wattage. |        |                        | * Contact factory for custom wattage or lumen requirement. <sup>3</sup>                |                                          |                                                                  |                                      |                                                               |               |                                                                                                               |               |                                 |

| VOLTAGE <sup>9</sup>                                                           |                                                 | MOUNTING                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FIXTURE FINISH                 |                                                                                                                            | CORD FINISH<br>(for pendant) |                       | CANOPY FINISH<br>(for pendant) |                                                                                         |
|--------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|--------------------------------|-----------------------------------------------------------------------------------------|
| UNV<br>120<br>277<br>347<br>480                                                | 120-277V (Std.)<br>120V<br>277V<br>347V<br>480V | (Blank)<br>IDS<br>RB<br>VH<br>CHxx<br>ACxx<br>YCxx<br>SH-3/8-xx<br>SH-1/2-xx | Direct ceiling / Wall mount<br>T-Bar Clip for Surface Mount<br>Ceiling / Wall mount with rotatable bracket<br>V-Hook<br>Chain for use with V-hook (xx=length)<br>Adjustable Aircraft Cable w/ Canopy<br>(* xx = Specify length (48 or 96))<br>Adjustable Aircraft Y-cable with Toggles<br>(* xx = Specify length in inches (60, 120, 180)) (Cord not included)<br>3/8" IPS STEM w/ Canopy<br>1/2" IPS STEM w/ Canopy<br>(* xx = 18, 24, 36, 48 inches) | (Blank)<br>*BK<br>**CC<br>*AMB | Semi-Glossy White (Std.)<br>Black (RAL#9011)<br>Custom Color <sup>10</sup><br>Anti-Microbial Coating<br>(Matte Skye White) | (Blank)<br>*BKC              | White (Std.)<br>Black | (Blank)<br>*BC<br>*SC<br>**CSS | White (Std.)<br>Black Canopy<br>Silver Canopy<br>Custom Canopy Color<br>(White is Std.) |
| * Non-standard finish with extra charge.<br>** Additional charge & set up fee. |                                                 |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |                                                                                                                            |                              |                       |                                |                                                                                         |

| CEILING TYPE<br>(for pendant) |                                                                                                                     | SUSPENSION LENGTH            |                                                                                                                                                                          | LED DRIVER <sup>5</sup>                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DIFFUSER |                                                                              |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| X1<br>X2<br>X3<br>X4<br>X5    | 15/16" grid T-bar ceiling<br>Hard ceiling<br>Sloped Hard ceiling<br>9/16" T-bar ceiling<br>9/16" Screw Slot ceiling | AC48<br>AC96<br>ST24<br>ST48 | Adjustable Aircraft<br>Cable Canopy 48"L<br>Adjustable Aircraft<br>Cable Canopy 96"L<br>Stem Canopy 24"L<br>Stem Canopy 48"L<br><br>* Contact factory for custom length. | GR<br>DM1<br>SD40<br>SDXX<br>TDM<br>TD30/70<br>TDXX/YY<br>EC<br>ES566<br>LDE1<br><br>ELV<br>PHSR<br>PHDL<br>ND<br>ED560<br><br> BLT | Generic, 0-10V 10% dim (Std.)<br>Generic 0-10V 1% dim<br>40% / 100% Bi-Level Step dim<br>XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)<br>Triac Dim. (120V only)<br>30% / 70% / 100% Tri-Level Step dim<br>XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)<br>eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)<br>eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim<br>Hi-lume 1% EcoSystem LED driver with Soft-on,<br>Fade-to-Black dimming technology,<br>100% ~ 1% dim ELV compatible (reverse-phase or trailing-edge), (120V only)<br>Philips Xitanium Sensor-Ready, Dali 5%~100% dim<br>Philips Xitanium DALI driver, Dim to 5%<br>Driver prewired for non-dimming applications<br>eldoLED LightShape DALI dim to dark, 0.1% ~ 100%<br><br>Bluetooth Mesh System (contact factory for more information) | FW<br>PC | Flat wide frosted<br>acrylic lens<br>Flat wide frosted<br>polycarbonate lens |

## SS-FW LED

| OPTIONS            |                                                                      | SENSOR         |                                                                                                                                                                       |
|--------------------|----------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EMG8</b>        | 8W EM Battery Backup (CEC Compliant EM) <sup>2,9</sup>               | <b>MS</b>      | PIR Occupancy sensor                                                                                                                                                  |
| <b>EMG15</b>       | 15W EM Battery Backup (CEC Compliant EM) <sup>2,9</sup>              | <b>EFS01RE</b> | PIR Occupancy sensor with daylight harvesting and bi-level dimming<br>(Default setting: Motion -->100%, No Motion >= 5min --> dlm to 30%, No Motion >= 60min --> off) |
| <b>EMG20</b>       | 20W EM Battery Backup (CEC Compliant EM) <sup>2,9</sup>              |                | Remote programmer for EFS01RE sensor                                                                                                                                  |
| <b>EMG25</b>       | 25W EM Battery Backup (CEC Compliant EM) <sup>2,9</sup>              | <b>RM51</b>    | Bluetooth PIR occupancy dimming sensor                                                                                                                                |
| <b>ESRN</b>        | UL924 Emergency Bypass Shunt Load Relay, 120-277VAC <sup>11,12</sup> | <b>EFS104</b>  |                                                                                                                                                                       |
| <b>ESRNTB</b>      | Remote Test Button for ESRN <sup>7</sup>                             |                |                                                                                                                                                                       |
| <b>ARRA</b>        | Assembled in USA                                                     |                |                                                                                                                                                                       |
| <b>BAA</b>         | BAA(Buy American Act) compliant                                      |                |                                                                                                                                                                       |
| <b>BABA</b>        | BABA(Build America Buy America) compliant <sup>13</sup>              |                |                                                                                                                                                                       |
| <b>TAA</b>         | Trade Agreements Act compliant                                       |                |                                                                                                                                                                       |
| <b>O7W</b>         | Optional 7 Years Limited Warranty <sup>4</sup>                       |                |                                                                                                                                                                       |
| <b>O10W</b>        | Optional 10 Years Limited Warranty <sup>4</sup>                      |                |                                                                                                                                                                       |
| <b>COC</b>         | Separated EM feed for City of Chicago code compliance 6FT            |                |                                                                                                                                                                       |
| <b>CS6-18/5-BK</b> | 18/5 black cord pre-installed                                        |                |                                                                                                                                                                       |

\* Please contact factory for Bluetooth control with sensor and other options

| LIGHTING CONTROL SYSTEM |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VIVE</b>             | <Lutron>                                                                                                                                                                                |
| <b>ATHENA</b>           | Lutron Vive Bluetooth ready options, please contact factory.<br>Lutron Athena Bluetooth ready options, please contact factory.                                                          |
| <b>SNS200C</b>          | <EasySense>                                                                                                                                                                             |
| <b>RS-IR</b>            | EasySense Ceiling-mount occupancy sensing, daylight harvesting<br>and task tuning in one device (Must be ordered with PHSR driver) <sup>8</sup><br>IR dongle v2.0 for EasySense control |
| <b>AUTANI</b>           | <Bluetooth>                                                                                                                                                                             |
| <b>CASAMBI</b>          | Autani / Keiltron Bluetooth control ready options.                                                                                                                                      |
| <b>AVI-ON</b>           | Casambi Bluetooth control ready options.<br>Avi-On Bluetooth control ready options.                                                                                                     |

\* Please contact factory for Bluetooth control with sensor and other options

## NOTES:

1. One-piece 8ft housing with one-piece 8ft lens.
2. Contact factory for other emergency ballast options.
3. Custom wattage products are not DLC qualified.
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
5. To find an approved dimmer switch, please see table 1.
6. Available with C9 (90+ CRI) only.
7. Lumen per watt is around 15% less than standard CRI (80+).
8. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
9. Emergency Ballast options are not available with 347V or 480V.
10. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
11. Shipped separately.
12. @120/277VAC Max. 16 Amp. LED
13. Not all configurations may comply. Please check with factory.

## SS-FW LED

## CONFIGURATIONS

| Series | Size | Model # | AC Input | Lumen Output (4000K) | Lumen Efficiency (4000K) |
|--------|------|---------|----------|----------------------|--------------------------|
| SS-FW  | 4FT  | L27     | 29.9W    | 3292 lm              | 110.1 lm/W               |
|        |      | L36     | 39.33W   | 4330.2 lm            |                          |
|        |      | L54     | 57.36W   | 6315.3 lm            |                          |
|        |      | L72     | 76.48W   | 8420.4 lm            |                          |
|        | 8FT  | L27     | 29.9W    | 3292 lm              |                          |
|        |      | L36     | 39.33W   | 4330.2 lm            |                          |
|        |      | L54     | 57.81W   | 6315.3 lm            |                          |
|        |      | L72     | 78.2W    | 8420.4 lm            |                          |
|        |      | L108    | 105.4W   | 11604.5 lm           |                          |
|        |      | L144    | 140.53W  | 15472.3 lm           |                          |

## OUTPUT CURRENT

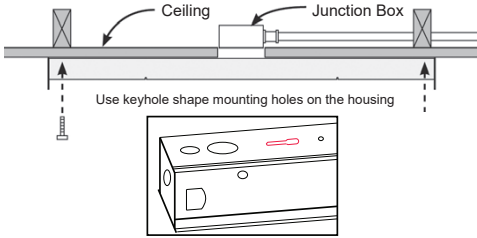
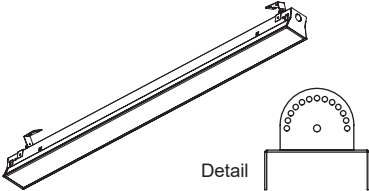
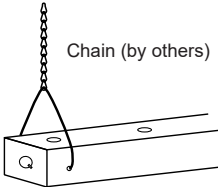
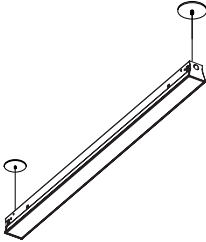
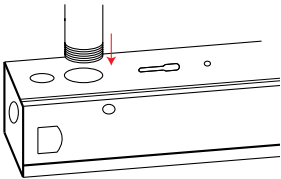
|       |       | Bi-Level     |         | Tri-Level (Default) |         |
|-------|-------|--------------|---------|---------------------|---------|
| SW1   | SW2   | Config Range | Default | Config Range        | Default |
| Close | Open  | 10% - 70%    | 40%     | 10% - 70%           | 30%     |
| Open  | Close | 10% - 70%    | 40%     | 10% - 70%           | 70%     |
| Close | Close | 100%         | 100%    | 100%                | 100%    |
| Open  | Open  | 0%           | 0%      | 0%                  | 0%      |

## COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model # | Brand                         | Compatible Dimmer Switch |                                                                                                                                                                                                                                                                                                                    |
|---------|-------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GR, PH  | Philips Xitanium              | <Leviton>                | IlumaTech IP7 series                                                                                                                                                                                                                                                                                               |
|         |                               | <Lutron>                 | Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> for a list of dimmers (Mark VII) that will work with this driver.                                                                                                                                                                         |
|         |                               | <Philips>                | Sunrise : SR1200ZTUNV                                                                                                                                                                                                                                                                                              |
| OS, OS1 | Osram Optotronic              | <Osram>                  | ZBHA-CLM DIM (NAMED: 45678), 45561 - LC-SL3W-TVWBX/UNV                                                                                                                                                                                                                                                             |
|         |                               | <Encelium EMS>           | EN-LCM-1R10V-GB2-BK, EN-LCM-1R10V-GB2-BK/DR, EN-ALC-1R10V-GB2-BK, EN-ALC-1R10V-GB2-BK-DR                                                                                                                                                                                                                           |
|         |                               | <Leviton>                | IP710-DLX                                                                                                                                                                                                                                                                                                          |
|         |                               | <Lutron>                 | DVTV-XX                                                                                                                                                                                                                                                                                                            |
|         |                               | <Wattstopper>            | ADF-120277, FD-301, FSP-202                                                                                                                                                                                                                                                                                        |
|         |                               | <Synergy>                | ISD BC                                                                                                                                                                                                                                                                                                             |
| ES566   | eldoLED SOLOdrive             | <Busch-Jaeger>           | 2112U-101                                                                                                                                                                                                                                                                                                          |
|         |                               | <Jung>                   | 240-10                                                                                                                                                                                                                                                                                                             |
|         |                               | <Leviton>                | IlumaTech - IP710-DLX                                                                                                                                                                                                                                                                                              |
|         |                               | <Lighttoller Controls>   | ZP600FAM120                                                                                                                                                                                                                                                                                                        |
|         |                               | <Merten>                 | 5729                                                                                                                                                                                                                                                                                                               |
|         |                               | <Pass & Seymour>         | CD4FB-W                                                                                                                                                                                                                                                                                                            |
|         |                               | <Wattstopper>            | DCLV1                                                                                                                                                                                                                                                                                                              |
|         |                               | <Sensor Switch>          | nIO EZ                                                                                                                                                                                                                                                                                                             |
|         |                               | <Synergy>                | ISD BC                                                                                                                                                                                                                                                                                                             |
|         |                               | <ABB>                    | SD/S 2.16.1                                                                                                                                                                                                                                                                                                        |
|         |                               | <Lutron>                 | Nova T: NTFTV<br>Diva - DVTV-xx, NFTV<br>GRAFIK Eye: GRX-TVI w GRX3503<br>Energy Savr Node: QSN-4T16-S<br>TVM2 Module                                                                                                                                                                                              |
|         |                               | <Crestron>               | GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4*, GLPAC-DIMFLVV8*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX                                                                                                                                       |
| ED560   | eldoLED DUALdrive             | <Lunatone>               | SS-LUNAT PS2 30mA, SS-LUNAT Touch or BT, SS-LUNAT Comm                                                                                                                                                                                                                                                             |
| LDE1    | Lutron Hi-lume 1% EcoSystem   | <Lutron>                 | PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO 1.2<br>Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S<br>GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E<br>Quantum Hub (120V only): QP2-_2C/4C/6C/8C<br>Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D |
| PHSR 3  | Philips Xitanium Sensor-Ready | <Ilumra>                 | <u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u><br>Ilumra# ZBT-S1AWH<br>Digi-Key# 1082-1033-ND<br><u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u><br>Ilumra# ZBT-S2AWH<br>Digi-Key# 1082-1034-ND                                                                 |
| TDM     | KEystone                      | <Lutron>                 | Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW                                                                                                                                                                        |
|         |                               | <Leviton>                | 6641, IlumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)                                                                                                                                                                                                                                                         |
| ELV     | KEystone                      | <Lutron>                 | MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P                                                                                                                                                                                                                                                               |

## NOTES:

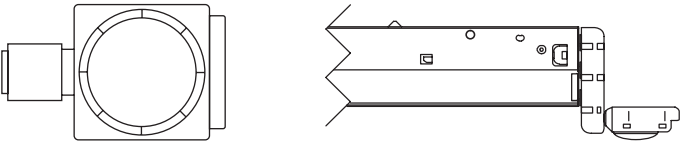
- All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.  
For more detail on adjusting low-end light level refer to Application Note#556 at [www.lutron.com](http://www.lutron.com).
- For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
- Recommended for EasySense System.

| Mounting Options                                              | Image                                                                                                                                     | Ordering Code                                                                                                                                                       |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface Mount<br>(Ceiling / Wall)                             |  <p>Use keyhole shape mounting holes on the housing</p> | (Blank)                                                                                                                                                             |
| With RB mounting bracket<br>(fixture 2.5" extended from wall) |  <p>Detail</p>                                           | RB                                                                                                                                                                  |
| V-hook for Chain Mount                                        |  <p>Chain (by others)</p>                                | VH                                                                                                                                                                  |
| Adjustable Cable Mount                                        |                                                         | ACxx<br>xx = Length of Cable<br>(48 or 96 inches)                                                                                                                   |
| Stem Mount<br>(w/ Canopy)                                     |                                                        | w/ Canopy<br>HOLE A : 3/8" IPS STEM<br>[ Example : SH-3/8-xx(length) ]<br>HOLE B : 1/2" IPS STEM<br>[ Example : SH-1/2lxx(length) ]<br>xx = 18, 24, 36, 48 (inches) |
| T-Bar Surface Mount                                           |                                                        | IDS                                                                                                                                                                 |

\* Cable / Stem mount provided with canopy set

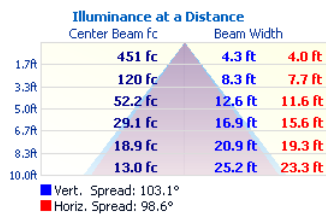
**MS** (\* This is an example of how the Motion Sensor is mounted externally. The actual sensor may not reflect the drawing.)

Motion Sensor

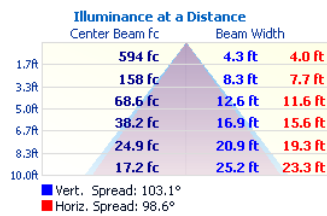


## SS LED

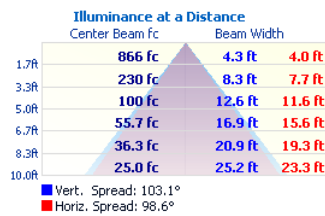
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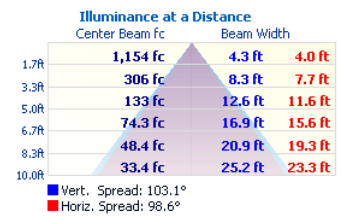
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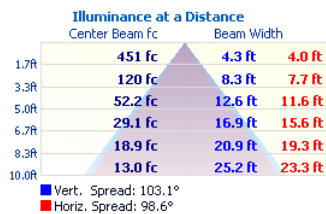
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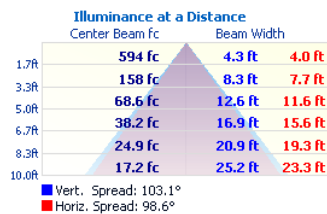
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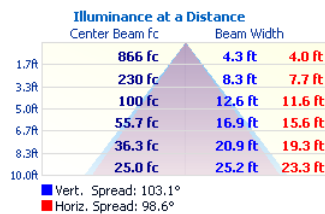
SS-FW-8-L27



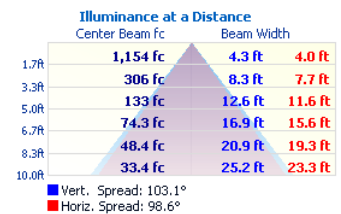
SS-FW-8-L36



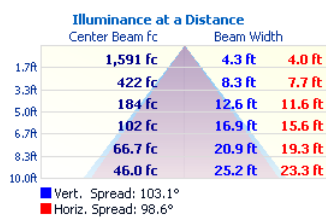
SS-FW-8-L54



SS-FW-8-L72



SS-FW-8-L108



SS-FW-8-L144

