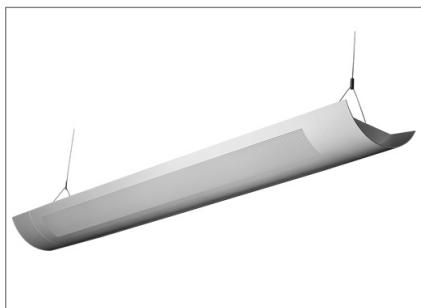


# SIOP LED



## CASAMBI

### APPLICATION

Architectural indoor, direct/indirect suspended light for LED system and fluorescent lamps. Reflected from the ceiling it creates soft and diffused lighting that ensures maximum visual comfort and balanced shadows. It can be installed individually or in a continuous line. Use for general office, banking, retail and educational environments.

### FEATURES:

- Die formed 20 gauge cold-rolled steel housing. Flat steel end plate standard. Powder coated for a long life finish. White finish is standard. Die cast aluminum spade end cap optional.
- 2', 3', 4' and 8' individual fixture sections for nominal suspension spacing of 2', 3', 4' and 8'. Using 2', 3', 4' and 8' sections can be joined to form longer length fixtures.
- Die-formed high-reflective white reflector is standard. Optional anodized specular aluminum reflector.
- Uplight and down light distribution.
- Textured matte white polyester powder paint.
- Overlay diffuser option as standard (99% diffusion factor & 73% total transmission).

### MOUNTING:

- Provided with a standard 48" length aircraft cable mount kit for suspended mounting.

### 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 Class 2 circuit.
- 0-10V dimmable driver as standard, 1%~100%.
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).
- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

### LISTING:

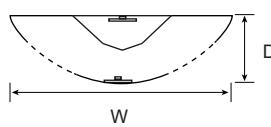
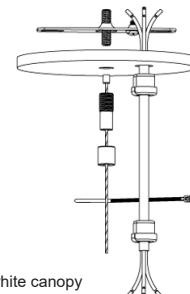
- UL/CUL listed.
- Listed to UL 1598 and UL 8750.
- DLC listed.<sup>8</sup>
- TITLE 24 Compliant.
- Suitable for damp locations.
- CEC Compliant EM (please contact for more information)
- ARRA compliant (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional)<sup>5</sup>
- Bluetooth Mesh System available, please contact factory for more information.

### CONFIGURATIONS

	Model #	Input Watts	Lumen Output (3000K)	Lumen Efficiency (3000K)
2FT	30L	31W	4144.5 lm	132.8 lm/W
	36L	33.8W	4333 lm	128 lm/W
	40L	38.8W	4884.5 lm	126 lm/W
	45L	46.8W	6215 lm	132.8 lm/W
3FT	54L	50.7W	6489.6 lm	128 lm/W
	60L	58.1W	7320.6 lm	126 lm/W
	23L	23W	3054 lm	132.8 lm/W
4FT	60L	62.39W	8289 lm	132.8 lm/W
	72L	67.67W	8666 lm	128 lm/W
	81L	77.53W	9769 lm	126 lm/W
	120L	124.8W	16573.4 lm	132.8 lm/W
8FT	144L	135.3W	17318.4 lm	128 lm/W
	162L	155W	19530 lm	126 lm/W

Multiplier		
3000K	3500K	5000K
1.027627	1.055254	1.110508

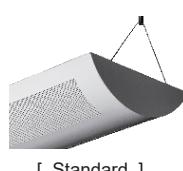
Zone	Lumens	% of Luminaire
0-40	147	2.5%
0-60	263	4.4%
0-90	380	6.4%
90-180	5589	93.6%



### Specifications: SIOP 2', 3', 4', 8'

Length: 24, 36, 48, 96  
(609 / 914 / 1220 / 2439)  
Width: 9 (229)  
Depth: 3 (76)  
Weight:  
SIOP-R4: 14.35 lbs (6.51 kg)  
SIOP-R8: 25.57 lbs (11.6 kg)

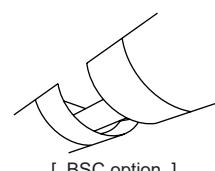
All dimensions are in inches (millimeters).



[ Standard ]

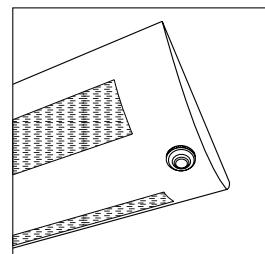
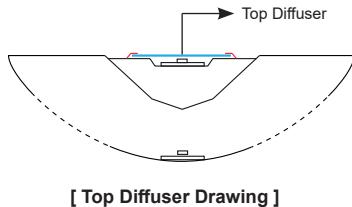


[ SPE option ]



[ BSC option ]

## SIOP LED

MS - Integrated Occupancy Sensor  
with Hold-Off Daylighting

## ORDERING INFORMATION

EXAMPLE: SIOP-4-60L-40K-UNV-X1-AC48

MODEL	ROW	SECTION <sup>1</sup>	LED		COLOR TEMP.	CRI		REFLECTOR		TOP DIFFUSER				
SIOP	xx	Increments Total Row Lengths	R2	2' Length	30L 36L 40L	30W LED (2072 lm/ft) 36W LED (2166 lm/ft) 40W LED (2442 lm/ft)	-30K -35K -40K -50K	3000K 3500K 4000K 5000K	(Blank) C9	80+ CRI 90+ CRI <sup>15</sup>	(Blank) SR	White Reflector Specular Reflector	(Blank) PA CA	None Prismatic Acrylic Clear Acrylic
			R3	3' Length	45L 54L 60L	45W LED (2071 lm/ft) 54W LED (2163 lm/ft) 60W LED (2440 lm/ft)								
			R4	4' Length	23L 60L 72L 81L	23W LED (763 lm/ft) 60W LED (2072 lm/ft) 72W LED (2166 lm/ft) 81W LED (2442 lm/ft)								
			R8	8' Length	120L 144L 162L	120W LED (2071 lm/ft) 144W LED (2164 lm/ft) 162W LED (2441 lm/ft)								

\* 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.

\* Contact factory for custom up/down light distribution.

VOLTAGE		EM SECTION <sup>2</sup>		FIXTURE FINISH			CORD FINISH (for pendant)		CANOPY FINISH (for pendant)		
UNV 120 277 347	120-277V (Std.) 120V 277V 347V <sup>12</sup>	(Blank) 1SE 2SE xSE	None EM 1 Section 2 Section x Section	(Blank) *SV *BK **CC *AMB	Matte White RAL #9003 (Std.) Silver RAL #9022 Black RAL #9011 Custom Color Anti-Microbial Coating (Matte Skye White)		(Blank) *BKC	White (Std.) Black	(Blank) *BC *SC **CSS	White (Std.) Black Canopy Silver Canopy Custom Canopy Color (White is Std.)	

\* Non-standard finish with extra charge.

\*\* Additional charge & set up fee.

LED DRIVER				OPTIONS							
(Blank) SD50 TDM ES566 EC LDE1 ELV PHSR PHDL TRIOT LTEA2W				<b>EMG8</b> <b>EMG15</b> <b>EMG20</b> <b>EMG25</b> <b>ELCU-200</b> <b>GTD</b> <b>GTD10DIM</b> <b>SPE</b> <b>BSC</b> <b>DC</b> <b>ARRA</b> <b>BAA</b> <b>TA</b> <b>AMS</b> <b>DPMS</b> <b>SO</b> <b>LSR-301-S</b> <b>LSR-301-P</b> <b>O7W</b> <b>O10W</b> <b>CO</b>							
0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) Bi-Level Step dim 50/100 <sup>3,4</sup> Triac Dim. (120V only) eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive) Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV compatible (reverse-phase or trailing-edge), (120V only) Philips Xitanium Sensor-Ready, Dali 5%~100% dim. Philips Xitanium DALI driver, Dim to 5% * Contact factory for custom minimum dimming level set up. (Custom set up is not available with SD50) Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlightened Sensor Interface Hi-lume 1% 2-wire LED driver (120V forward phase only)				1296 LUMEN EM Battery Backup (CEC Compliant EM) <sup>2</sup> 2430 LUMEN EM Battery Backup (CEC Compliant EM) <sup>2</sup> 3240 LUMEN EM Battery Backup (CEC Compliant EM) <sup>2</sup> 4050 LUMEN EM Battery Backup (CEC Compliant EM) <sup>2</sup> Fail-to-on Emergency lighting, UL924 <sup>7</sup> Bodine Generator Transfer Device Bodine Generator Transfer Device (0-10VDC Dimmer Override) Spade End Cap Non-lit Continuous Coupler Dust Cover ARRA Compliant BAA(Buy American Act) and BABA(Build America Buy America) compliant Trade Agreements Act compliant Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming <sup>16</sup> Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) <sup>14</sup> Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) <sup>6</sup> Setup Remote Control for DPMS (Required for DPMS) Occupant Remote Control for DPMS Optional 7 Years Limited Warranty <sup>5</sup> Optional 10 Years Limited Warranty <sup>5</sup> Separated EM feed for City of Chicago code compliance							
Bluetooth Mesh System (contact factory for more information)											

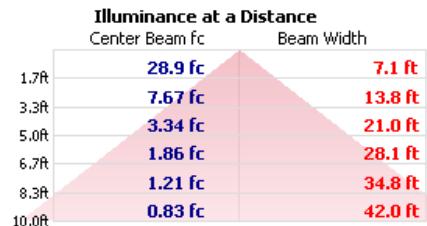
# SIOP LED

CEILING TYPE (for pendant)	SUSPENSION LENGTH (for pendant)	LIGHTING CONTROL SYSTEM	
X1 15/16" grid T-bar ceiling X2 Hard ceiling X3 Sloped Hard ceiling X4 9/16" T-bar ceiling X5 9/16" Screw Slot ceiling	AC48 Adjustable Aircraft Cable Canopy 48" L AC96 Adjustable Aircraft Cable Canopy 96" L AC120 Adjustable Aircraft Cable Canopy 120" L AC150 Adjustable Aircraft Cable Canopy 150" L  * Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.	LUTRON VIVE  SU-5E-IoT  SU-5E-CL  RS-WS  SNS200C  RS-IR  IFS105SE PPA102S  CASAMBI	<p><u>&lt;Lutron Vive System Enabled&gt;</u></p> <p> Click Here!</p> <p><u>&lt;Enlighted&gt;</u></p> <p>Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled <sup>9, 13</sup></p> <p>Enlighted Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Connected lighting sensor only)</p> <p>Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability</p> <p><u>&lt;EasySense&gt;</u></p> <p>EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) <sup>10, 11</sup></p> <p>IR dongle for EasySense control</p> <p><u>&lt;Bluetooth&gt;</u></p> <p>Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming Bluetooth Powerpack (Consult factory for installation location)</p> <p>Contact factory for CASAMBI READY options</p>

## NOTES:

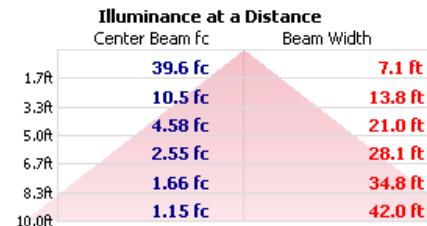
1. No need to select, if same as row length and section length.
2. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified.  
Must specify voltage, not available with 347V. Contact factory for other emergency ballast options.
3. Contact factory for custom wattage or lumen requirement.
4. Lumens and watts per foot may differ for STEP drivers, consult factory.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
6. Dimming wires provided and connected to sensor only, not for dimmer switch.  
(available with AMS and DPMS option)
7. Shipped separately.
8. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be  
DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL)  
to confirm which versions are qualified.
9. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
10. See NFC and IR manual in the separate attachment.  
If your phone is not compatible, please order "RS-IR" and follow the manual.
11. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
12. 347V cannot work with Emergency Battery Backup.
13. Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
14. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
15. Lumen per watt is around 15% less than standard CRI (80+).
16. With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

## SIOP-4-60L-UNV



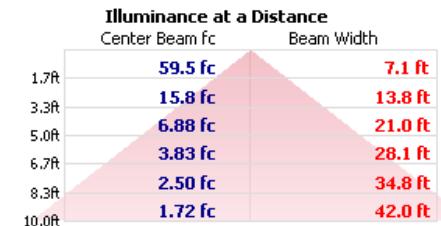
■ Horiz. Spread: 129.0°

## SIOP-4-81L-UNV



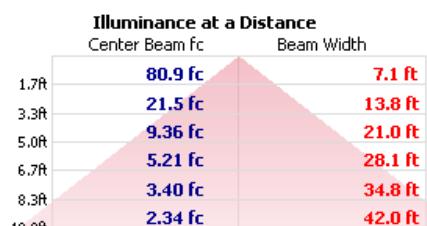
■ Horiz. Spread: 129.0°

## SIOP-8-120L-UNV



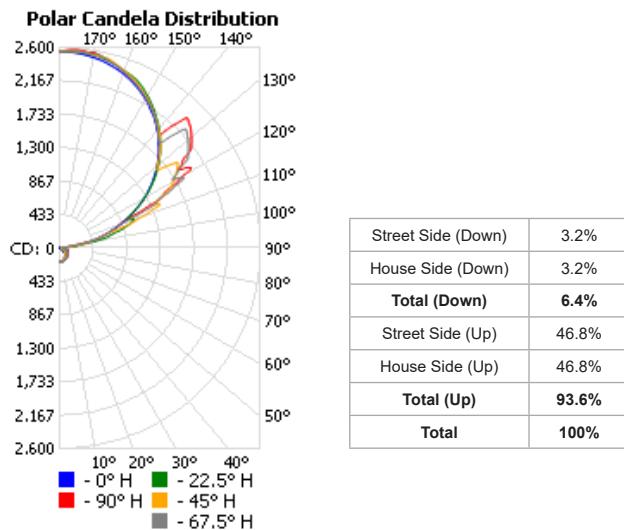
■ Horiz. Spread: 129.0°

## SIOP-8-162L-UNV



■ Horiz. Spread: 129.0°

# SIOP LED



## COMPATIBLE DIMMER SWITCH (TABLE 1)

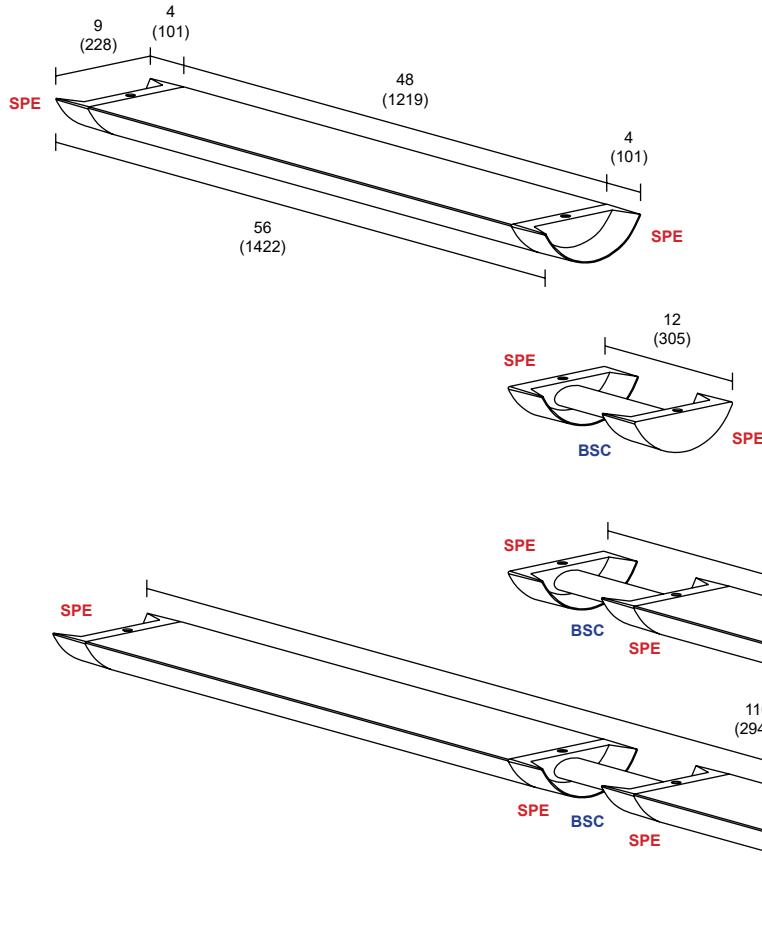
Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller 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 Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO <sup>1,2</sup> Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ_E(wireless) QSGR_E Quantum Hub (120V only): QP2-__2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
PHSR <sup>3</sup>	Philips Xitanium Sensor-Ready	<Illumra>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND
			<u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Illumra# ZBT-S2AWH 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, IllumaTech IP106-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron>	Visit <a href="http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf">http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf</a> for a list of compatible dimmer switches.

### NOTES:

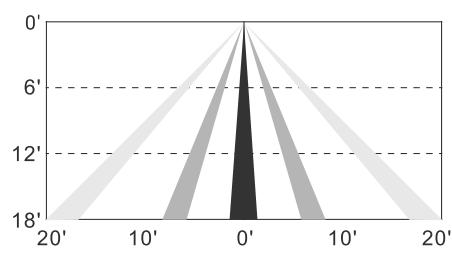
- All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
- For more detail on adjusting low-end light level refer to Application Note#556 at [www.lutron.com](http://www.lutron.com).
- For the Line/Hot (L/H) terminal 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.

# SIOP LED

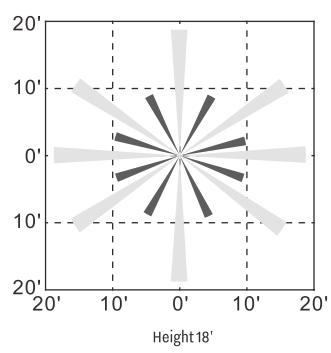
All dimensions are in inches (millimeters).



SIDE VIEW



TOP VIEW



AMS, IFS105SE coverage pattern