

# SIOL-LENS LED



## APPLICATION

Architectural indoor, direct/indirect suspended light for LED system. Reflection from the ceiling creates soft and diffused lighting that ensures maximum visual comfort and balanced shadows. Frosted lens on direct light helps to distribute smooth and equal distribution. It can be installed individually or in a continuous line. Use for general office, bank, 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.
- Frosted lens.
- Up light and down light distribution.
- Textured matte white polyester powder paint.

## 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:

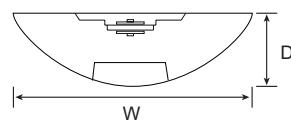
- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- 0-10V dimmable driver as standard, 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.
- 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	
2FT	30L	32.4W	4451.7 lm	137.4 lm/W
	36L	38.4W	5276 lm	
	40L	42.9W	5894.5 lm	
3FT	45L	48.6W	6677.6 lm	137.4 lm/W
	54L	57.6W	7914.2 lm	
	60L	64.35W	8841.7 lm	
4FT	32L	32W	4396.8 lm	137.4 lm/W
	60L	64.8W	8903.5 lm	
	72L	76.8W	10552.3 lm	
	81L	85.8W	11788.9 lm	
8FT	120L	124.8W	17147.5 lm	137.4 lm/W
	144L	148.8W	20445 lm	
	162L	166.8W	22918.3 lm	

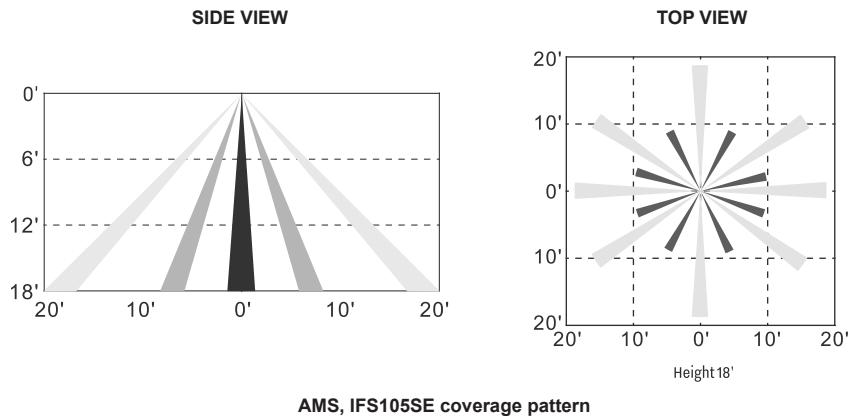


All dimensions are in inches (millimeters).

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

Length: 24, 36, 48, 96  
(609 / 914 / 1220 / 2439)  
Width: 9 (229)  
Depth: 3 (76)  
Weight:  
SIOL-R2: 12 lbs (5.4 kg)  
SIOL-R3: 13.6 lbs (6.2 kg)  
SIOL-R4: 18.6 lbs (8.4 kg)  
SIOL-R8: 29.3 lbs (13.3 kg)

# LED ARCHITECTURAL LINEAR SUSPENDED



## ORDERING INFORMATION

EXAMPLE: SIOL-4-60L-40K-LENS-UNV-X1-AC48

MODEL	ROW		SECTION <sup>1</sup>	LED		COLOR TEMP.		CRI		REFLECTOR	
SIOL	xx	Increments Total Row Lengths	R2	2' Length	30L 36L 40L	30W LED (1445 lm/ft) 36W LED (1713 lm/ft) 40W LED (1913 lm/ft)	-27K -30K -35K -40K -50K	2700K <sup>10</sup> 3000K 3500K 4000K 5000K	(Blank) C9	80+ CRI 90+ CRI <sup>11</sup>	(Blank) White Reflector
			R3	3' Length	45L 54L 60L	45W LED (1445 lm/ft) 54W LED (1713 lm/ft) 60W LED (1913 lm/ft)					
			R4	4' Length	32L 60L 72L 81L	32W LED (750 lm/ft) 60W LED (1445 lm/ft) 72W LED (1713 lm/ft) 81W LED (1913 lm/ft)					
			R8	8' Length	120L 144L 162L	120W LED (1445 lm/ft) 144W LED (1713 lm/ft) 162W LED (1913 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.

SHIELDING		TOP DIFFUSER		VOLTAGE		EM SECTION <sup>2</sup>		Fixture Finish			CORD FINISH (for pendant)	
LENS	Frosted Lens (Std.)	(Blank) PA CA	None Prismatic Acrylic Clear Acrylic	UNV 120 277 347	120-277V (Std.) 120V 277V 347V <sup>15</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

\* Non-standard finish with extra charge.

\*\* Additional charge & set up fee.

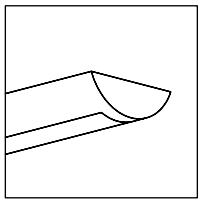
CANOPY FINISH (for pendant)		LED DRIVER					OPTIONS						
(Blank) *BC *SC **CSS	White (Std.) Black Canopy Silver Canopy Custom Canopy Color (White is Std.)	(Blank) UDSD SD50 TDM ES566 EC LDE1  ELV PHSR PHDL TRIOT  DIMT LTEA2W	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) Separate Dimming Control of Uplight and Downlight (0-10V dim to 10%) <sup>7,14</sup> 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% Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlightened Sensor Interface Tri-mode dimming (Triac, ELV, 0-10V) Hi-lume 1% 2-wire LED driver (120V forward phase only)	(Blank) ELCU-200 GTD GTD10DIM  SPE BSC AMS  DPMS  SO	EMG8 EMG15 EMG20 EMG25  LSR-301-S LSR-301-P O7W O10W ARRA BAA  TAA COC	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>8</sup> Bodine Generator Transfer Device Bodine Generator Transfer Device (0-10VDC Dimmer Override) Spade End Cap Non-lit Continuous Coupler Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming <sup>18</sup> Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) <sup>17</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> ARRA Compliant BAA(Buy American Act) and BABA(Build America Buy America) compliant Trade Agreements Act compliant Separated EM feed for City of Chicago code compliance							

# SIOL-LENS LED

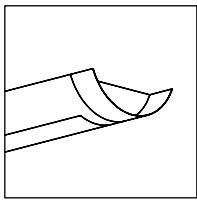
CEILING TYPE (for pendant)	SUSPENSION LENGTH (for pendant)	LIGHTING CONTROL SYSTEM	
<b>X1</b> 15/16" grid T-bar ceiling	<b>AC48</b> Adjustable Aircraft Cable Canopy 48" L	<b>LUTRON VIVE</b>	<a href="#">Lutron Vive System Enabled</a>  
<b>X2</b> Hard ceiling	<b>AC96</b> Adjustable Aircraft Cable Canopy 96" L		<a href="#">Enlighted</a>
<b>X3</b> Sloped Hard ceiling	<b>AC120</b> Adjustable Aircraft Cable Canopy 120" L		<a href="#">Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled</a> <sup>9, 16</sup>
<b>X4</b> 9/16" T-bar ceiling	<b>AC150</b> Adjustable Aircraft Cable Canopy 150" L		<a href="#">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)</a>
<b>X5</b> 9/16" Screw Slot ceiling			<a href="#">Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability</a>
	* Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.		<a href="#">EasySense</a> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) <sup>12, 13</sup>
			<a href="#">RS-IR</a> IR dongle for EasySense control
			<a href="#">Bluetooth</a> Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming Bluetooth Powerpack (Consult factory for installation location)
			<a href="#">CASAMBI</a> Contact factory for CASAMBI READY options

## NOTES:

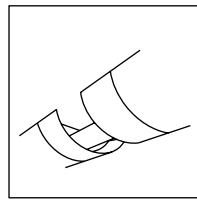
1. No need to select, if same as row length and section length.
2. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified.  
Must specify voltage, not available with 347V. Contact factory for other emergency ballast options.
3. Contact factory for custom wattage 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. For separate dimming control, please be advised it may not be available when EM battery backup is added due to limited space. Please contact us for more information.
8. Shipped separately.
9. "RS-WS" option can be added if wish to have a wall switch,  
please see Enlighted Room Controller in the separate attachment.
10. Available with C9 only.
11. Lumen per watt is around 15% less than standard CRI (80+).
12. See NFC and IR manual in the separate attachment.  
If your phone is not compatible, please order "RS-IR" and follow the manual.
13. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
14. Can have up to 2 power feeds depending on the configuration.
15. 347V cannot work with Emergency Battery Backup.
16. Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
17. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
18. With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.



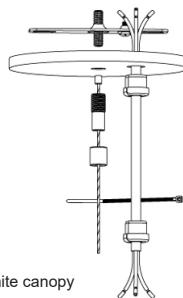
[ Standard ]



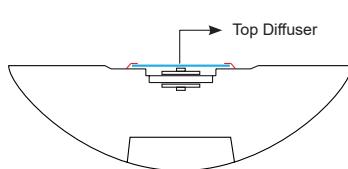
[ SPE option ]



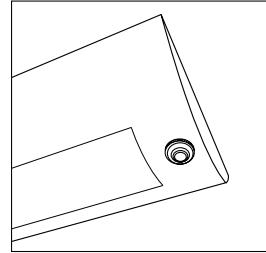
[ BSC option ]



5" white canopy

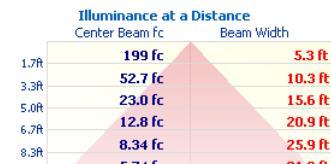


[ Top Diffuser Drawing ]

MS - Integrated Occupancy Sensor  
with Hold-Off Daylighting

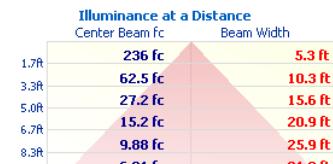
# SIOL-LENS LED

## SIOL-R2-30L-LENS-UNV



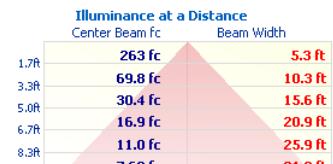
■ Horiz. Spread: 114.7°

## SIOL-R2-36L-LENS-UNV



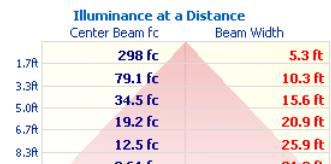
■ Horiz. Spread: 114.7°

## SIOL-R2-40L-LENS-UNV



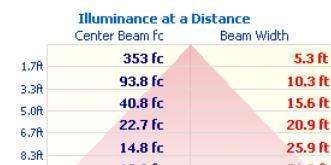
■ Horiz. Spread: 114.7°

## SIOL-R3-45L-LENS-UNV



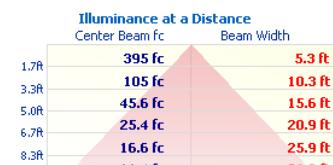
■ Horiz. Spread: 114.7°

## SIOL-R3-54L-LENS-UNV



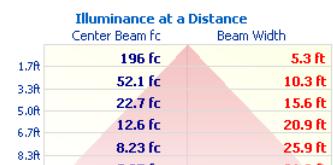
■ Horiz. Spread: 114.7°

## SIOL-R3-60L-LENS-UNV



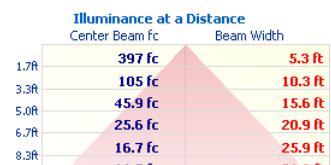
■ Horiz. Spread: 114.7°

## SIOL-R4-32L-LENS-UNV



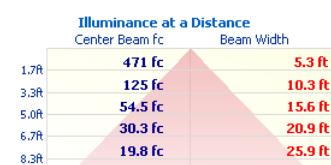
■ Horiz. Spread: 114.7°

## SIOL-R4-60L-LENS-UNV



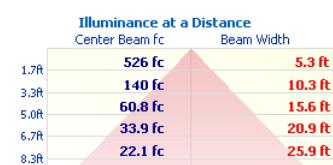
■ Horiz. Spread: 114.7°

## SIOL-R4-72L-LENS-UNV



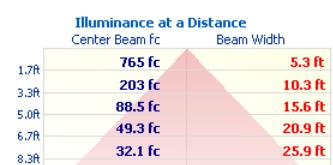
■ Horiz. Spread: 114.7°

## SIOL-R4-81L-LENS-UNV



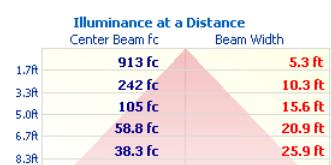
■ Horiz. Spread: 114.7°

## SIOL-R8-120L-LENS-UNV



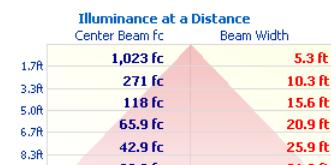
■ Horiz. Spread: 114.7°

## SIOL-R8-144L-LENS-UNV



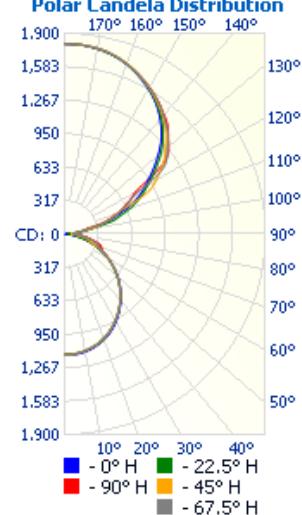
■ Horiz. Spread: 114.7°

## SIOL-R8-162L-LENS-UNV



■ Horiz. Spread: 114.7°

### Polar Candela Distribution



Street Side (Down)	18.6%
House Side (Down)	18.9%
<b>Total (Down)</b>	<b>37.5%</b>
Street Side (Up)	31.4%
House Side (Up)	31.1%
<b>Total (Up)</b>	<b>62.5%</b>
<b>Total</b>	<b>100%</b>

# SIOL-LENS 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 : SR1200ZTUVN
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 - DTVT-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-A08, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% Eco-System	<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): LSSE-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 IPI06-1LX, 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.

# SIOL-LENS LED

All dimensions are in inches (millimeters).

