

SIOL-LENS LED

Project Name:	
Type:	



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:

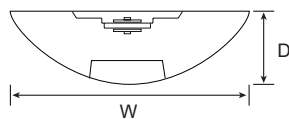
- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- 0-10V dimmable driver as standard, 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).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) ⁵
- 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	
	54L	57.6W	7914.2 lm	
	60L	64.35W	8841.7 lm	
4FT	32L	32W	4396.8 lm	
	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	
	144L	148.8W	20445 lm	
	162L	166.8W	22918.3 lm	

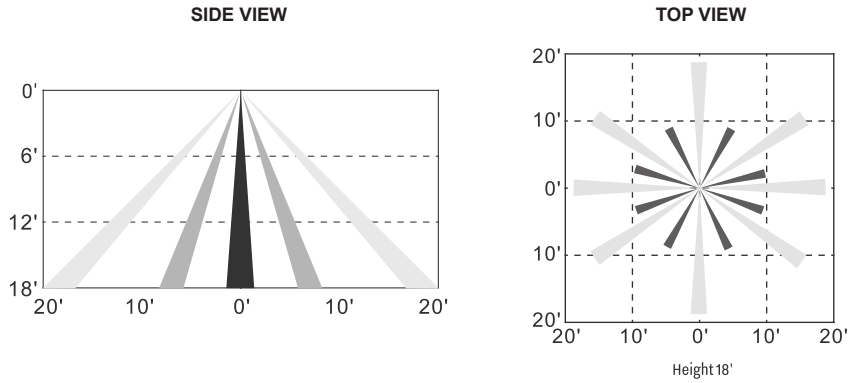


All dimensions are in inches (millimeters).

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



AMS, IFS105SE coverage pattern

ORDERING INFORMATION

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

MODEL	ROW		SECTION 1		LED		COLOR TEMP.		CRI		REFLECTOR		
SIOL	xx	Increments Total Row Lengths	R2	2' Length	30L	30W LED (1445 lm/ft)	-27K	2700K ¹⁰	(Blank)	80+ CRI	(Blank)	White Reflector	
					36L	36W LED (1713 lm/ft)							
				40L	40W LED (1913 lm/ft)	-30K							3000K
R3	3' Length	45L	45W LED (1445 lm/ft)	-35K	3500K								
		54L	54W LED (1713 lm/ft)										
R4	4' Length	60L	60W LED (1913 lm/ft)	-40K	4000K								
R8	8' Length	32L	32W LED (750 lm/ft)	-50K	5000K								
		60L	60W LED (1445 lm/ft)										
		72L	72W LED (1713 lm/ft)										
		81L	81W LED (1913 lm/ft)										
		120L	120W LED (1445 lm/ft)										
		144L	144W LED (1713 lm/ft)										
		162L	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 2		FIXTURE FINISH			CORD FINISH (for pendant)									
LENS	Frosted Lens (Std.)	(Blank)	None	UNV	120-277V (Std.)	(Blank)	None EM	(Blank)	Matte White RAL #9003 (Std.)	*SV	Silver RAL #9022	(Blank)	White (Std.)							
					120									120V	1SE	1 Section	*BK	Black RAL #9011	*BKC	Black
					277									277V	2SE	2 Section	**CC	Custom Color		
					347									347V ¹⁵	xSE	x Section	*AMB	Anti-Microbial Coating (Matte Skye White)		

* Non-standard finish with extra charge.
** Additional charge & set up fee.

CANOPY FINISH (for pendant)		LED DRIVER				OPTIONS													
(Blank)	White (Std.)	(Blank)	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)	UDSD	Separate Dimming Control of Uplight and Downlight (0-10V dim to 10%) ^{7, 14}	EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ²	EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ²	EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ²	EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) ²						
														*BC	Black Canopy	SD50	Bi-Level Step dim 50/100 ^{3, 4}	ELCU-200	Fail-to-on Emergency lighting, UL924 ⁸
														*SC	Silver Canopy	TDM	Triac Dim. (120V only)	GTD	Bodine Generator Transfer Device
														**CSS	Custom Canopy	ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	GTD10DIM	Bodine Generator Transfer Device
	Color (White is Std.)	EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)			SPE	Spade End Cap												
		LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim			BSC	Non-lit Continuous Coupler												
		ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)			AMS	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming												
		PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.			DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) ¹⁷												
		PHDL	Philips Xitanium DALI driver, Dim to 5%			SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) ⁶												
		TRIoT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface			LSR-301-S	Setup Remote Control for DPMS (Required for DPMS)												
		DIMT	Tri-mode dimming (Triac, ELV, 0-10V)			LSR-301-P	Occupant Remote Control for DPMS												
		LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)			O7W	Optional 7 Years Limited Warranty ⁵												
		BLT	Bluetooth Mesh System (contact factory for more information)			O10W	Optional 10 Years Limited Warranty ⁵												
						ARRA	ARRA Compliant												
						BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant												
						COC	Separated EM feed for City of Chicago code compliance												

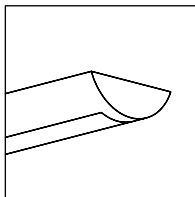
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CEILING TYPE (for pendant)		SUSPENSION LENGTH (for pendant)	LIGHTING CONTROL SYSTEM	
X1	15/16" grid T-bar ceiling	AC48 Adjustable Aircraft Cable Canopy 48"L	LUTRON VIVE	<Lutron Vive System Enabled>
X2	Hard ceiling	AC96 Adjustable Aircraft Cable Canopy 96"L		 Click Here!
X3	Sloped Hard ceiling	AC120 Adjustable Aircraft Cable Canopy 120"L		<Enlighted>
X4	9/16" T-bar ceiling	AC150 Adjustable Aircraft Cable Canopy 150"L		SU-5E-IoT Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled ^{9,16}
		* Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.	SU-5E-CL 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)	RS-WS Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
			SNS200C <EasySense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{12,13}	RS-IR IR dongle for EasySense control
			IFS105SE <Bluetooth> Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming	PPA102S Bluetooth Powerpack (Consult factory for installation location)

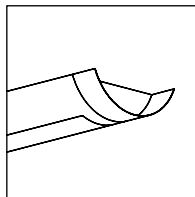
NOTES:

- No need to select, if same as row length and section length.
- 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.
- Contact factory for custom wattage or lumen requirement.
- Lumens and watts per foot may differ for STEP drivers, consult factory.
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
- Dimming wires provided and connected to sensor only, not for dimmer switch.
(available with AMS and DPMS option)
- 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.
- Shipped separately.
- "RS-WS" option can be added if wish to have a wall switch,
please see Enlighted Room Controller in the separate attachment.

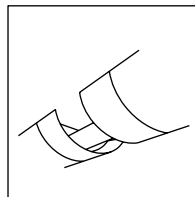
- Available with C9 only.
- Lumen per watt is around 15% less than standard CRI (80+).
- See NFC and IR manual in the separate attachment.
If your phone is not compatible, please order "RS-IR" and follow the manual.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- Can have up to 2 power feeds depending on the configuration.
- 347V cannot work with Emergency Battery Backup.
- Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.



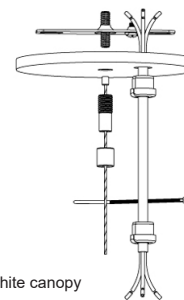
[Standard]



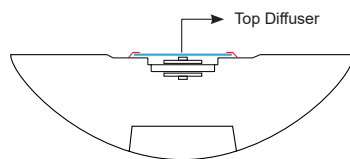
[SPE option]



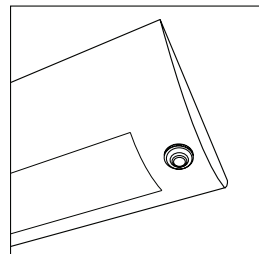
[BSC option]



5" white canopy



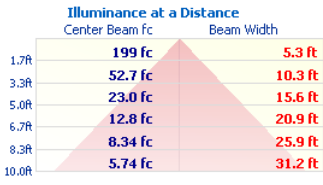
[Top Diffuser Drawing]



MS - Integrated Occupancy Sensor with Hold-Off Daylighting

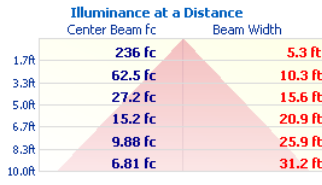
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SIOL-R2-30L-LENS-UNV



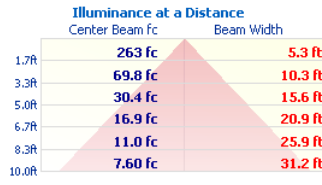
■ Horiz. Spread: 114.7°

SIOL-R2-36L-LENS-UNV



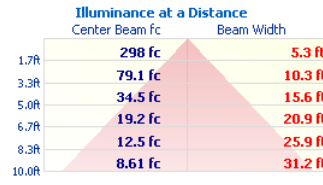
■ Horiz. Spread: 114.7°

SIOL-R2-40L-LENS-UNV



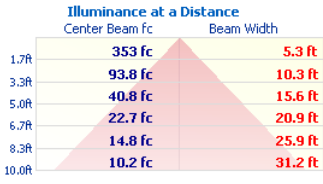
■ Horiz. Spread: 114.7°

SIOL-R3-45L-LENS-UNV



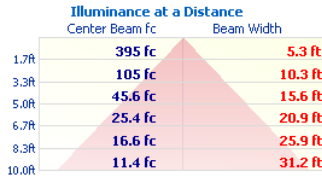
■ Horiz. Spread: 114.7°

SIOL-R3-54L-LENS-UNV



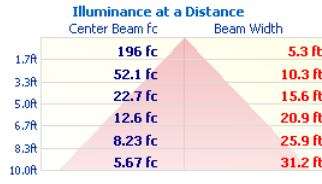
■ Horiz. Spread: 114.7°

SIOL-R3-60L-LENS-UNV



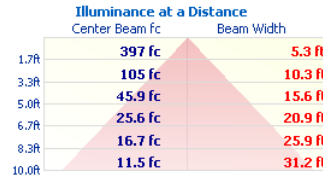
■ Horiz. Spread: 114.7°

SIOL-R4-32L-LENS-UNV



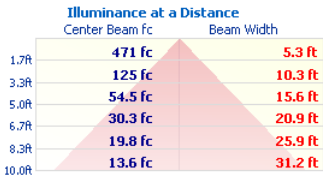
■ Horiz. Spread: 114.7°

SIOL-R4-60L-LENS-UNV



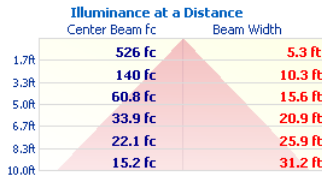
■ Horiz. Spread: 114.7°

SIOL-R4-72L-LENS-UNV



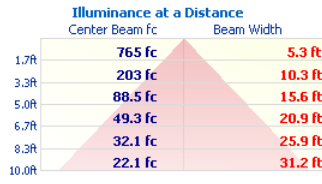
■ Horiz. Spread: 114.7°

SIOL-R4-81L-LENS-UNV



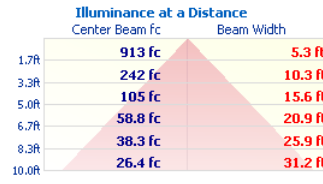
■ Horiz. Spread: 114.7°

SIOL-R8-120L-LENS-UNV



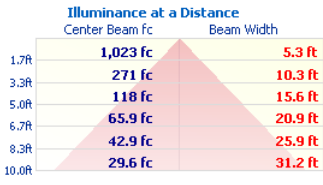
■ Horiz. Spread: 114.7°

SIOL-R8-144L-LENS-UNV



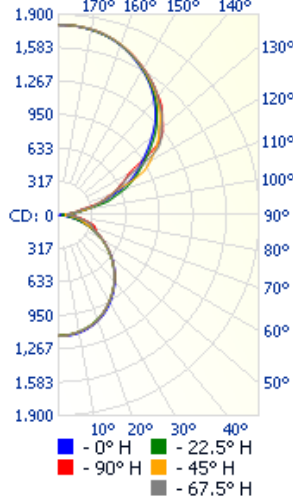
■ Horiz. Spread: 114.7°

SIOL-R8-162L-LENS-UNV



■ Horiz. Spread: 114.7°

Polar Candela Distribution



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

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COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance 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-TV1 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% Eco-System
PHSR ³	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 http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf 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.
- 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.

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All dimensions are in inches (millimeters).

