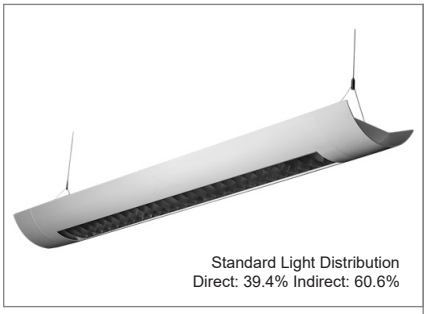
SIOL LED

Project Name:	
Type:	



Standard Light Distribution
Direct: 39.4% Indirect: 60.6%

APPLICATION

Architectural indoor, direct/indirect suspended light for LED system and fluorescent lamps. Reflection from the ceiling 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, 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', 4', 8' and 12' individual fixture sections for nominal suspension spacing of 2', 4', 8' and 12'. Using 2', 4', 8' and 12' sections can be joined to form longer length fixtures.
- Parabolic semi-specular aluminum louvers, white painted steel baffle (WBL) (standard) or white painted perforated steel baffle (WPL). Optional Opal White Diffuser (OP) overlay on louver.
- Die formed high-reflective white reflector is standard. Optional anodized specular aluminum reflector.
- 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.

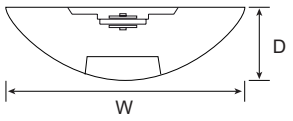
LISTING:

- 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	2891 lm
	36L	38.4W	3426 lm
	40L	42.9W	3827 lm
4FT	32L	32W	3000 lm
	60L	64.8W	5783 lm
	72L	76.8W	6853 lm
	81L	85.8W	7655 lm
8FT	120L	124.8W	11131 lm
	144L	148.8W	13271 lm
	162L	166.8W	14875 lm
12FT	180L	184.8W	16480 lm
	216L	220.8W	19689 lm
	243L	247.8W	22096 lm

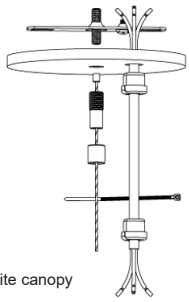
Zone	Lumens	% of Luminaire
0-40	1794	23.7%
0-60	2623	34.7%
0-90	2982	39.4%
90-180	4586	60.6%



All dimensions are in inches (millimeters).

Specifications: SIOL 2', 4', 8', 12'

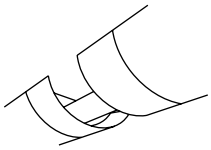
Length: 24, 48, 96, 144
(609 / 1220 / 2439 / 3657)
Width: 9 (229)
Depth: 3 (76)
Weight:
SIOL-R4: 13.61 lbs (6.18 kg)
SIOL-R8: 23.24 lbs (10.54 kg)
SIOL-R12: 34.49 lbs (15.65 kg)



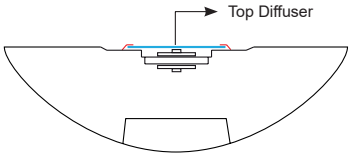
5" white canopy

[Standard]

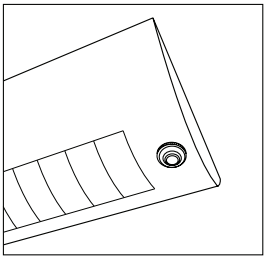
[SPE option]



[BSC option]



[Top Diffuser Drawing]



MS - Integrated Occupancy Sensor
with Hold-Off Daylighting

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SIOL LED

ORDERING INFORMATION

EXAMPLE: *SIOL-4-60L-40K-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)	**-30K**	3000K	**C9**	90+ CRI [11]		
					40L	40W LED (1913 lm/ft)	**-35K**	3500K				
			R4	4' Length	**32L**	32W LED (750 lm/ft)	**-40K**	4000K				
					60L	60W LED (1445 lm/ft)	**-50K**	5000K				
					72L	72W LED (1713 lm/ft)						
					81L	81W LED (1913 lm/ft)						
			R8	8' Length	**120L**	120W LED (1445 lm/ft)						
					144L	144W LED (1713 lm/ft)						
					162L	162W LED (1913 lm/ft)						
			R12	12' Length	**180L**	180W LED (1445 lm/ft)						
					216L	216W LED (1713 lm/ft)						
					243L	243W 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)	
(Blank)	Semi Specular	**(Blank)**	None	**UNV**	120-277V (Std.)	**(Blank)**	None EM	**(Blank)**	Matte White RAL #9003 (Std.)	**(Blank)**	White (Std.)
WBL	White Blade	**PA**	Prismatic Acrylic	**120**	120V	**1SE**	1 Section	***SV**	Silver RAL #9022	***BKC**	Black
WPL	White Perforated Blade	**CA**	Clear Acrylic	**277**	277V	**2SE**	2 Section	***BK**	Black RAL #9011		
OP	Semi Specular Louver with White Acrylic Overlay			**347**	347V [15]	**xSE**	x Section	****CC**	Custom Color		
LENS	Frosted Lens							***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)	**EMG8**	1296 LUMEN EM Battery Backup (CEC Compliant EM) [2]
***BC**	Black Canopy	**UDSD**	Separate Dimming Control of Uplight and Downlight (0-10V dim to 10%) [7, 14]	**EMG15**	2430 LUMEN EM Battery Backup (CEC Compliant EM) [2]
***SC**	Silver Canopy	**SD50**	Bi-Level Step dim 50/100 [3, 4]	**EMG20**	3240 LUMEN EM Battery Backup (CEC Compliant EM) [2]
****CSS**	Custom Canopy Color (White is Std.)	**TDM**	Triac Dim. (120V only)	**EMG25**	4050 LUMEN EM Battery Backup (CEC Compliant EM) [2]
		ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	**ELCU-200**	Fail-to-on Emergency lighting, UL924 [8]
		EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)	**GTD**	Bodine Generator Transfer Device
		LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim	**GTD10DIM**	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
		ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)	**SPE**	Spade End Cap
		PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	**BSC**	Non-lit Continuous Coupler
		PHDL	Philips Xitanium DALI driver, Dim to 5%	**DC**	Dust Cover
		TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface	**74D/26U**	74% Down 26% Up Light
		LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Day-light/0-10V Dimming
		BLT	Bluetooth Mesh System (contact factory for more information)	**DPMS**	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) [17]
				SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) [6]
				LSR-301-S	Setup Remote Controlfor DPMS (Required for DPMS)
				LSR-301-P	Occupant Remote Control for DPMS
				O7W	Optional 7 Years Limited Warranty [5]
				O10W	Optional 10 Years Limited Warranty [5]
				ARRA	ARRA Compliant
				BAA	Buy American Act compliant
				COC	Separated EM feed for City of Chicago code compliance

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

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> Click Here!
X2	Hard ceiling	**AC96**	Adjustable Aircraft Cable Canopy 96"L		
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]
				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)
		* Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.		**RS-WS**	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
					<EasySense>
				SNS200C	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
					<Bluetooth>
				IFS105SE	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
				PPA102S	Bluetooth Powerpack (Consult factory for installation location)

NOTES:
1. No need to select, if sames as row length and section length.
2. EM is installed in last 4' of luminaire sections. Separate section reguired 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.

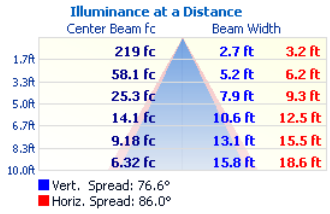
COMPATIBLE DIMMER SWITCH (TABLE 1)

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-TVI w GRX3503 Energy Savr Node: QSN-4T16-S 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
LDE1	Lutron Hi-lume 1% Eco-System	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO [1, 2] Energi Savr Node (120V only): QSN-1EC0-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 [3]	Philips Xitanium Sen-sor-Ready	<Illumra>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) 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.

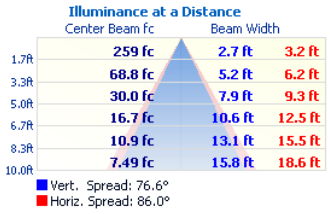
NOTES:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it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

SIOL LED

SIOL-2-30L-UNV



SIOL-2-36L-UNV



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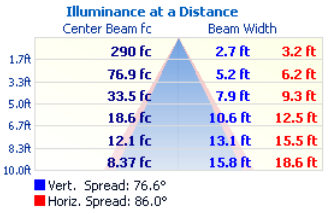

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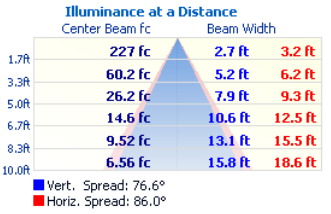

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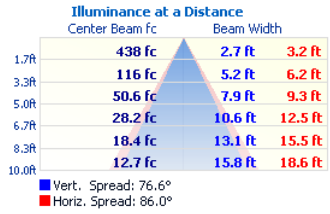

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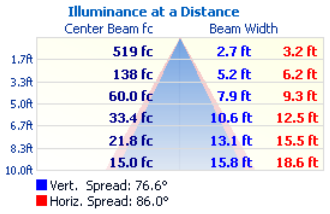

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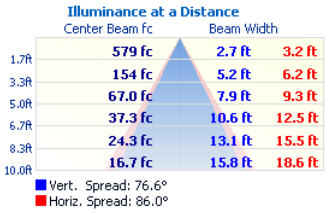

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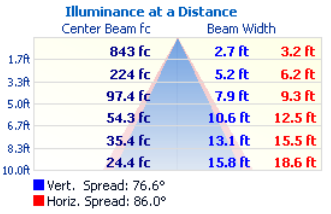

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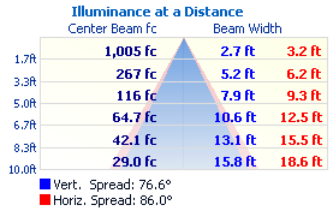
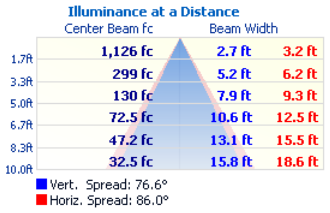
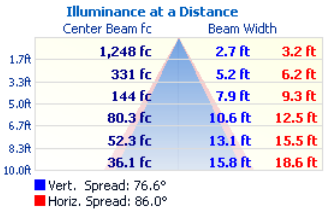


SIOL-8-162L-UNV



SIOL-12-180L-UNV



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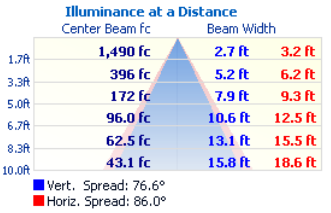

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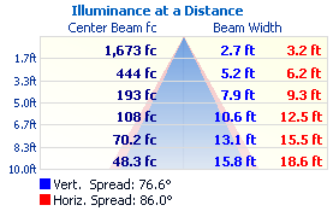

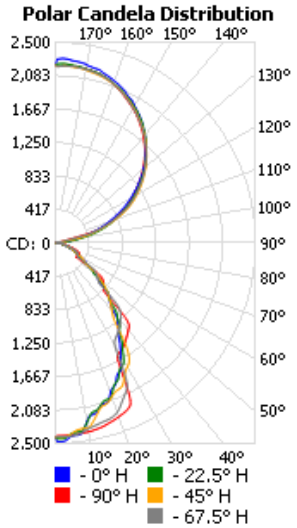

Street Side (Down)	19.7%
House Side (Down)	19.7%
Total (Down)	**39.4%**
Street Side (Up)	30.3%
House Side (Up)	30.3%
Total (Up)	**60.6%**
Total	**100%**

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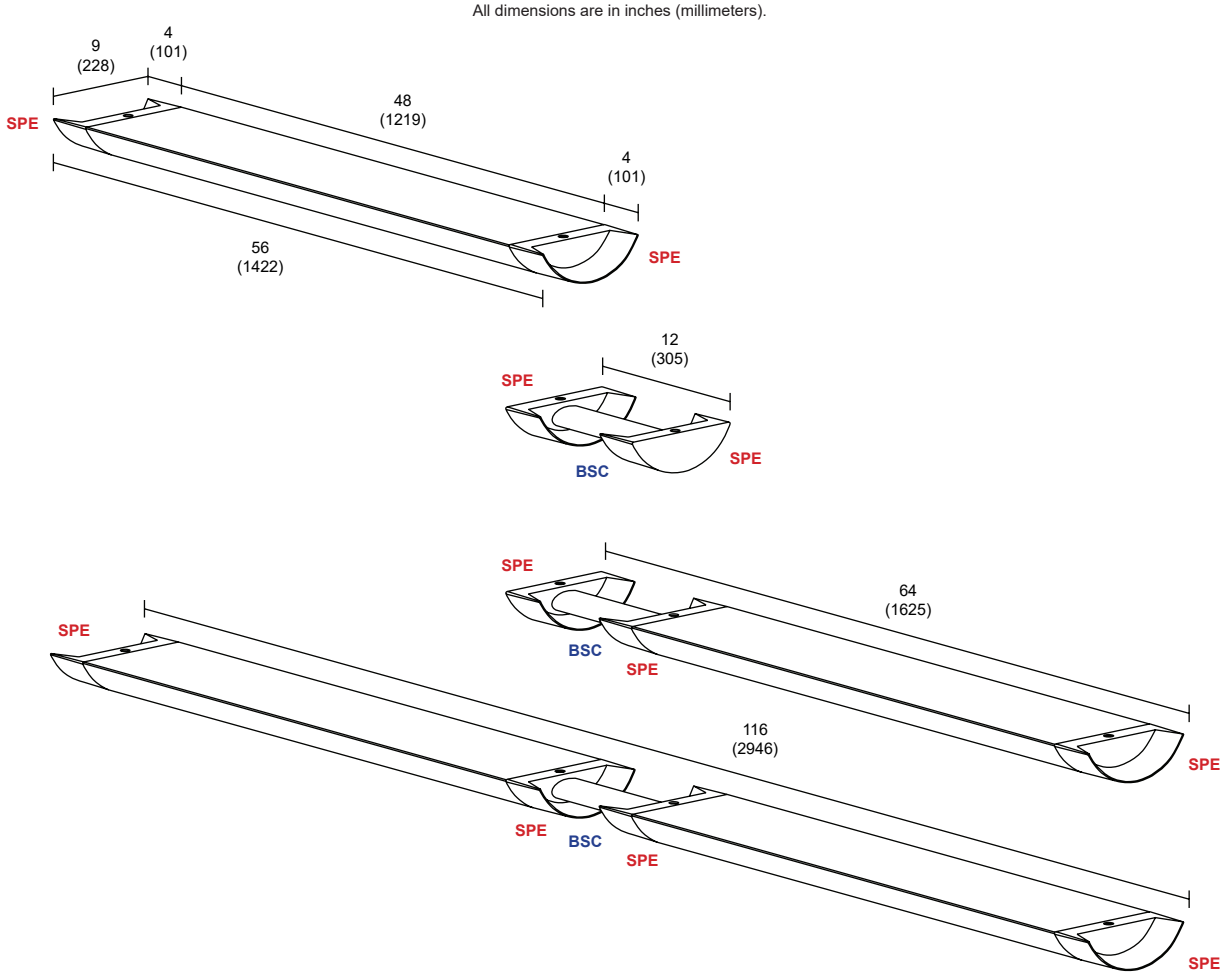
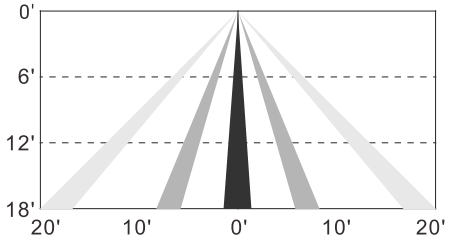
SIOL LED

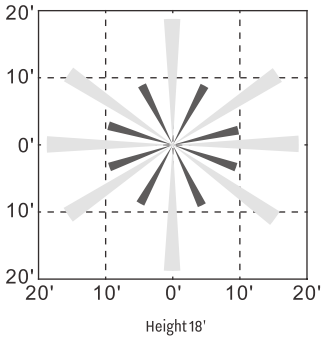
All dimensions are in inches (millimeters).



SIDE VIEW



TOP VIEW



AMS, IFS105SE coverage pattern

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