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Saturn 1 LED

Order Code: SA1L - _____ - _____ - _____ - _____ - _____ - _____ - _____

Pole Order Code: _____ - _____ - _____ - _____
Series   Height   Finish   Options

SA1L	Series	**SA1L** Saturn 1 LED						
	Optics	**TS** Tritec Symmetric	**TA¹** Tritec Asymmetric					¹Asymmetric optics not available with Gold Reflector light engines.
	Mounting	**1** Single	**1A** Single Arm Mount	**2** Double	**W** Wall Mount			
	Light Engine	**S1G1** Silver Reflector, 24W, Single Stack	**S1G2** Silver Reflector, 50W, Double Stack	**G1G1** Gold Reflector, 24W, Single Stack	**G1G2** Gold Reflector, 50W, Double Stack			
	CCT	**22*** 2200K	**27*** 2700K	**30** 3000K	**35*** 3000K	**40** 4000K	**50*** 5000K	*Consult factory.
	Power Cord Length	**08** 8'	**10** 10'	**12** 12'	**14** 14'	**16** 16'	**18** 18'	**XX** XX	*For 1 mounting use the pole height. For 1A or 2 mounting use the pole height +2.
	Finish	**WH** White	**BK** Black	**BL** Semi-Matte Black	**BZ** Bronze	**SV** Silver	**SP** Specify Premium Color	
	Voltage	**UNV** 120-277V	**120²** 120V	**240²** 240V	**277²** 277V	**347³** 347V	**480³** 480V	² Specify for HL option. ³ Equipped with step down transformer.

Options

HS House Side Shield (180°)	PCT⁶,⁷ Photocell Tenon	DM⁴ Dimming (0-10V)	HL30⁴,⁵ Hi-Lo Switching Low Output 30%	HL50⁴,⁵ Hi-Lo Switching Low Output 50%	BP Blue Prism Ring Optic Accessory	RP Red Prism Ring Optic Accessory	MS⁴,⁷ Motion Sensor with Optional Photocell See Pole Spec Sheet for Order Code
NH No Hoop							

⁴ DM, HLXX or MS only. Cannot be combined.
⁵ 120V, 240V or 277V only.
⁶ Not available with UNV.
⁷ PCT or MS only. Cannot be combined.
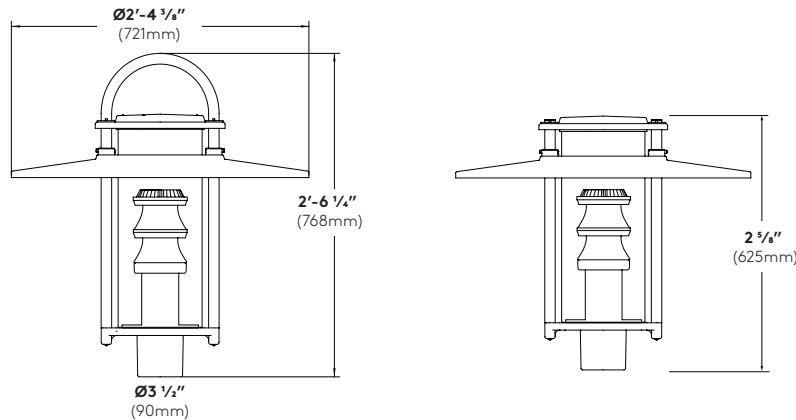
Product Modifications

Please list modification requirements for review by factory:

Approvals

Date:

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SA1L-XX-1   **SA1L-XX-1-NH**

Ø2'-4 ³/₈"
(721mm)

2'-6 ¼"
(768mm)

2 ⁵/₈"
(625mm)

Ø3 ½"
(90mm)

Specifications

Luminaire Cover - Die cast aluminum cover made from low copper alloy, designed to ensure optimal thermal management for extra long life time of LED light engine.

Cover Support - Machined support connected to fixture cover with architectural Allen head nut detail.

Cover Set Screw - Two stainless steel, socket head cap screws provide attachment of fixture cover and support to 1" (25mm) diameter connection rods. Loosening screws allows removal of fixture cover without tools.

Fixture Hood - Aluminum shade with white painted interior for maximum reflectivity.

Gasketing - Continuous gasket provides weatherproofing, dust and insect control at all fixture connections.

Luminaire Hood - Aluminum shade with white painted interior.

LED Array - Mid-power LEDs mounted to aluminum core PC boards and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance ¼ step binning for 3000K. CRI minimum 80K. Complete light engine can be removed easily for future upgrade. LED light engine provides a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics - Symmetric or Asymmetric distributions created by conical textured reflector and patterned acrylic reveal with alternate LED PCB layouts. Type V and Type IV IES distribution types. An indirect lighting effect spreads brightness and improves visual appearance.

LED Driver - LEDs are driven by RoHS compliant high-efficiency driver. Excellent for cold temperature starting and instant on.

Pole Fitter - Self-leveling, die cast low-copper aluminum alloy, fitter base secured to pole with three, stainless steel, Allen head set screws. Fitter for 3 ½" (90mm) O.D. poles.

Diffuser - Clear, U.V. stabilized, acrylic with minimum wall thickness of 0.125" (3mm).

Surge Protector - Designed to protect luminaire from electrical surge (20kA).

Power Cord - Pre-installed at factory. Please specify power cord length in accordance to height of the pole. Add 2 feet to power cord length if single arm mounting (1A) or double mounting (2) is specified.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Saturn 1 LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

**For Buy American compliance on poles, please consult the factory.**

For Buy American compliance on poles, please consult the factory.

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Saturn 1 LED

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Mounting

Single (1)
Die cast aluminum fitter base secured to pole with three stainless steel, Allen head set screws.
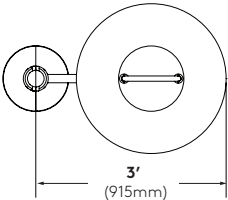
EPA = 1.0ft² (0.09m²)
Weight = 39lbs. (17.7kg)
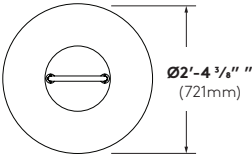
Single Arm Mount (1A)
Die cast aluminum single luminaire mounting arm secured to pole with four stainless steel, Allen head set screws. Outer slip fitter for Ø3 ½" tenon.

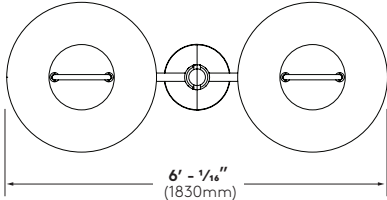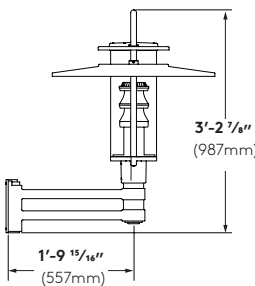**EPA =** 1.4ft² (0.13m²)
Weight = 53lbs. (24.0kg)

Double (2)
Die cast aluminum double luminaire mounting arm secured to pole with four stainless steel, Allen head set screws. Outer slip fitter for Ø3 ½" tenon.
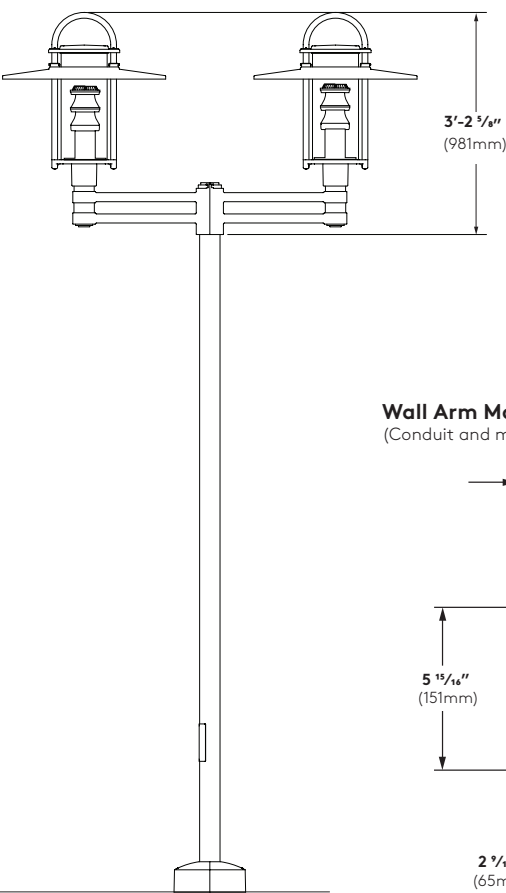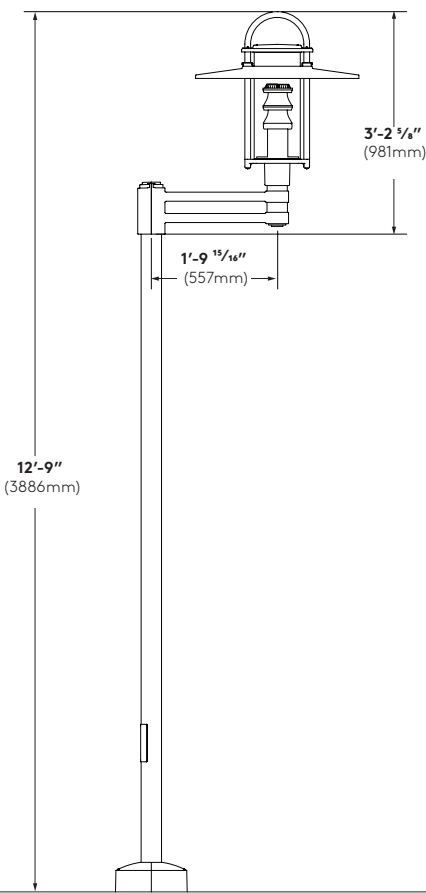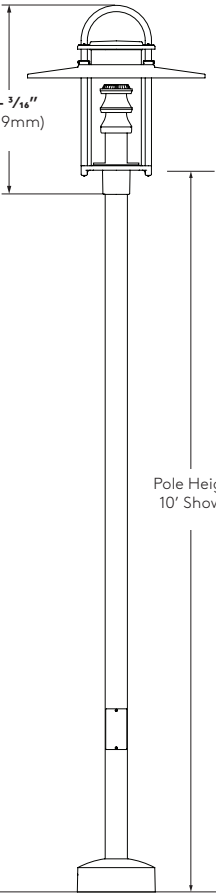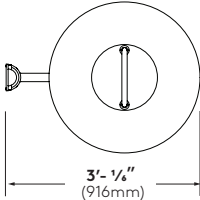
EPA = 2.7ft² (0.25m²)
Weight = 100lbs. (45.4kg)

Wall (W)
Die cast aluminum double round wall mount arm. Secured to wall with ¼" diameter threaded fasteners (by others).

EPA = 1.4ft² (0.13m²)
Weight = 50lbs. (22.7kg)

Ø2'-4 ³/₈" "
(721mm)

3'
(915mm)

6' - ¹/₁₆"
(1830mm)

3'- ¹/₁₆"
(916mm)

3'- ³/₁₆"
(919mm)

3'-2 ⁵/₈"
(981mm)

1'-9 ¹⁵/₁₆"
(557mm)

3'-2 ⁵/₈"
(981mm)

3'-2 ⁷/₈"
(987mm)

1'-9 ¹⁵/₁₆"
(557mm)

Pole Height
10' Shown

12'-9"
(3886mm)

Wall Arm Mounting Detail
(Conduit and mounting hardware by others).

4 ¹⁵/₁₆"
(121mm)

5 ¹⁵/₁₆"
(151mm)

9 ¼"
(235mm)

2 ⁹/₁₆"
(65mm)

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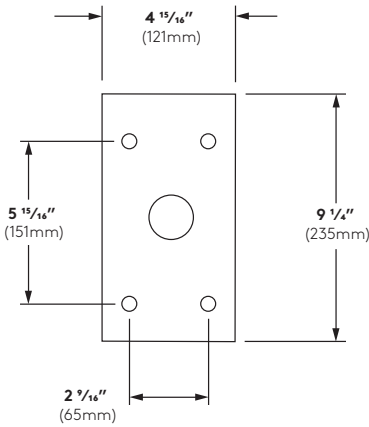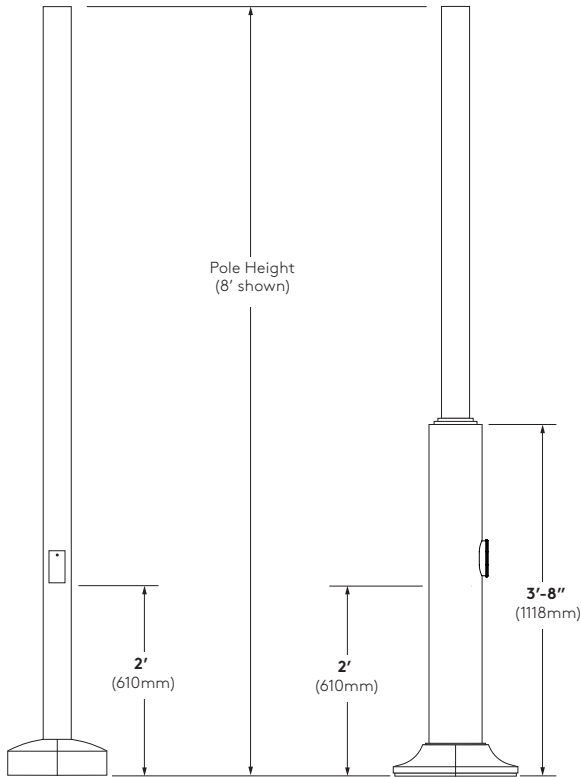
Pole Information
Refer to pole specification sheets for construction details, anchorage information and additional options.

A35 & S35
Round Straight Aluminum
& Round Straight Steel Poles

S635
Round Stepped
Steel Poles

Pole Height
(8' shown)

3'-8"
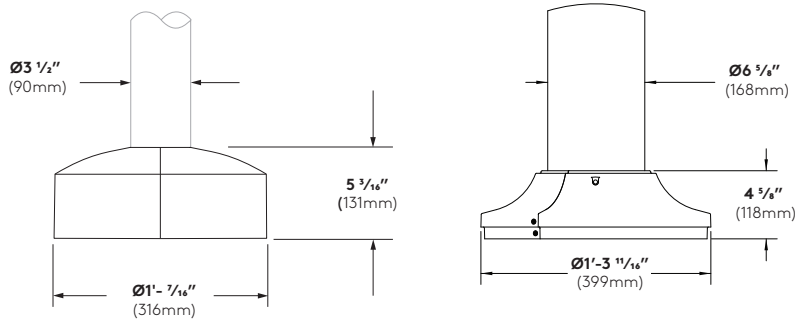(1118mm)

2'
(610mm)

2'
(610mm)

Shown with standard base covers.

Base Cover Information
Refer to pole specification sheets for construction details, anchorage information and additional options.
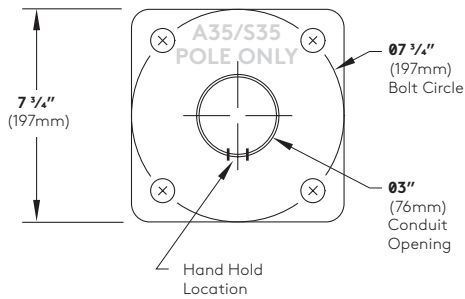
Standard Base Cover (BC5)
Supplied with A35 and S35
Two-piece cast aluminum

Ø3 ¹⁄₂"
(90mm)

5 ³⁄₁₆"
(131mm)

Ø1'- ⁷⁄₁₆"
(316mm)

Standard Base Cover (BC6)
Supplied with S635
Two-piece cast aluminum

Ø6 ⁵⁄₈"
(168mm)

4 ⁵⁄₈"
(118mm)

Ø1'-3 ¹¹⁄₁₆"
(399mm)

Bolt Circle for A35 & S35
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

A35/S35
POLE ONLY

7 ³⁄₄"
(197mm)

Ø7 ³⁄₄"
(197mm)
Bolt Circle

Ø3"
(76mm)
Conduit
Opening

Hand Hold
Location

Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A35 & S35

³⁄₄" – 10 x 17
Galvanized Anchor Bolts

³⁄₄" – 10
Galvanized Heavy
Hex Nut

³⁄₄" I.D.
Galvanized Flat
Washers

³⁄₄" – 10
Galvanized Heavy
Hex Leveling Nut

3¹⁄₄"
(83mm)
Bolt
Projection

¹⁄₂" (13mm)
for Leveling

Concrete footing designed
and supplied by others

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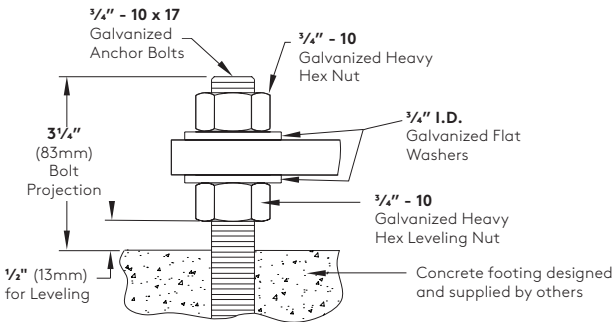## Bolt Circle for S635

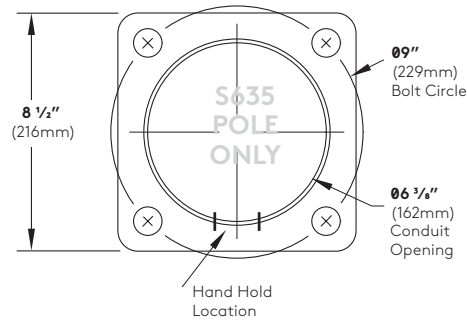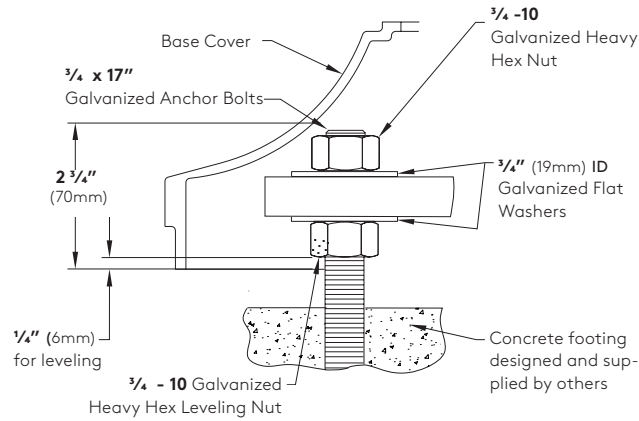Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown.

8 ½" (216mm)

S635 POLE ONLY

Ø9" (229mm) Bolt Circle

Ø6 ³/₈" (162mm) Conduit Opening

Hand Hold Location

Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for S635

Base Cover

¾ -10 Galvanized Heavy Hex Nut

¾ x 17" Galvanized Anchor Bolts

2 ¾" (70mm)

¾" (19mm) ID Galvanized Flat Washers

¼" (6mm) for leveling

¾ - 10 Galvanized Heavy Hex Leveling Nut

Concrete footing designed and supplied by others

Pole Data Chart

Pole Series	Bolt Circle (in)	Wall (in)	Maximum EPA Rating (ft²) / Wind Speed (mph)											Height	Finish	Options
			85	90	100	110	120	130	140	150	160	170	180			
A35 3 ½" Round Straight Aluminum Pole	7¾	0.197	8.7	7.7	6.0	4.8	3.9	3.1	2.6	2.2	1.9	1.7	1.5	**8ft** 8ft	**WH** White	**BC3** Decorative Cast Aluminum Base Cover (AT535)
S35 3 ½" Round Straight Steel Pole	7¾	0.125	13.1	11.5	9.2	7.4	6.0	5.0	4.2	3.6	3.2	2.8	2.4		**BK** Black	**BC5** Decorative Cast Aluminum Base Cover (A35 and S35)
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	34.4	30.6	24.6	20.2	16.8	14.2	12.2	10.5	9.2	8.1	7.2		**BL** Semi-Matte Black	**BC6** Decorative Cast Aluminum Base Cover (S635)
A35 3 ½" Round Straight Aluminum Pole	7¾	0.197	6.9	6.0	4.6	3.6	2.8	2.2	1.8	1.5	1.2	1.0	0.9	**10** 10ft		**REC*** GFCI Duplex Receptacle with weatherproof cover.
S35 3 ½" Round Straight Steel Pole	7¾	0.125	10.5	9.2	7.2	5.7	4.6	3.7	3.1	2.6	2.3	2.0	1.7		**BZ** Bronze	**REC2*** GFCI Duplex Receptacle with padlockable in-use cover.
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	28.5	23.5	20.2	16.5	13.7	11.5	9.8	8.5	7.4	6.5	5.7		**SV** Silver	**REC3*** USB & GFCI Duplex Receptacle with weatherproof cover.
A35 3 ½" Round Straight Aluminum Pole	7¾	0.197	5.4	4.7	3.5	2.6	1.9	1.4	1.1	0.8	0.7	-	-	**12** 12ft	**SP** Specify Premium Color	**REC4*** USB & GFCI Duplex Receptacle with padlockable in-use cover.
S35 3 ½" Round Straight Steel Pole	7¾	0.125	8.6	7.5	5.7	4.4	3.5	2.7	2.2	1.9	1.6	1.3	1.1			**MS** Motion Sensor with optional Photocell (Meets Title 24 Requirements).
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	23.6	21.0	16.9	13.7	11.3	9.4	8.0	6.9	6.0	5.2	4.6			
A35 3 ½" Round Straight Aluminum Pole	7¾	0.197	3.8	3.2	2.2	1.5	0.9	-	-	-	-	-	-	**14** 14ft		
S35 3 ½" Round Straight Steel Pole	7¾	0.125	6.3	5.4	4.0	3.0	2.2	1.6	1.2	1.0	0.8	0.6	-			
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	18.2	16.2	13.1	10.5	8.6	7.0	5.9	5.0	4.4	3.8	3.3			
A35 3 ½" Round Straight Aluminum Pole	7¾	0.197	2.7	2.2	1.3	0.7	-	-	-	-	-	-	-	**16** 16ft		
S35 3 ½" Round Straight Steel Pole	7¾	0.125	5.1	4.3	3.1	2.1	1.4	0.9	0.6	-	-	-	-			
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	15.6	13.9	11.2	8.9	7.1	5.7	4.8	4.0	3.5	3.0	2.6			
S35 3 ½" Round Straight Steel Pole	7¾	0.125	4.2	3.4	2.2	1.4	0.8	-	-	-	-	-	-	**18** 16ft		
AT535 5" to 3 ½" Round Tapered Aluminum Pole	8⅝	0.188	8.9	7.6	5.7	4.3	3.3	2.6	2.1	1.7	1.4	1.2	1.0			
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	13.7	12.2	9.5	7.5	5.9	4.6	3.8	3.2	2.7	2.3	2.0			
AT535 5" to 3 ½" Round Tapered Aluminum Pole	8⅝	0.188	7.3	6.2	4.4	3.2	2.3	1.7	1.4	1.1	0.9	-	-	**20** 20ft		
S635 6" to 3 ½" Round Straight Stepped Steel Pole	9	0.125	12.1	10.8	8.2	6.3	4.8	3.7	2.9	2.4	2.0	1.7	1.4			

Notes:

1. Maximum EPA ratings certified in accordance with AASHTO 2013 (LTS-6-I3) for 3-s gust wind speeds based on Allowable Stress Design (ASD) analysis

2. Consult factory for equivalent Load and Resistance Factor Design (LRFD) wind speeds

3. Rated performance is dependant upon the pole being properly attached to a supporting foundation of adequate design

*The EPA capacity of a S35 pole is reduced with receptacle option. Consult factory for S35 EPA capacity with receptacle.

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Round Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	**00** 0° Clockwise from Hand Hole	**D0** (Off)	**Y** Yes	**UNV** (100-347VAC single phase or 208/230/480VAC phase-to-phase)
	09 90° Clockwise from Hand Hole	**D1** (1V=10%)		
	18 180° Clockwise from Hand Hole	**D3** (3V=30%)	**N** No	
	27 270° Clockwise from Hand Hole	**D5** (5V=50%)		

Factory Defaults:

Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory

1' (305mm)

Overall Pole Height

General Pole Drawing For Example Only
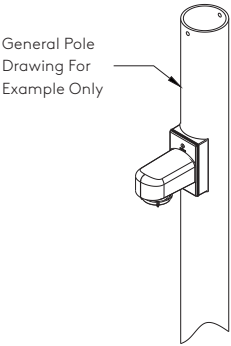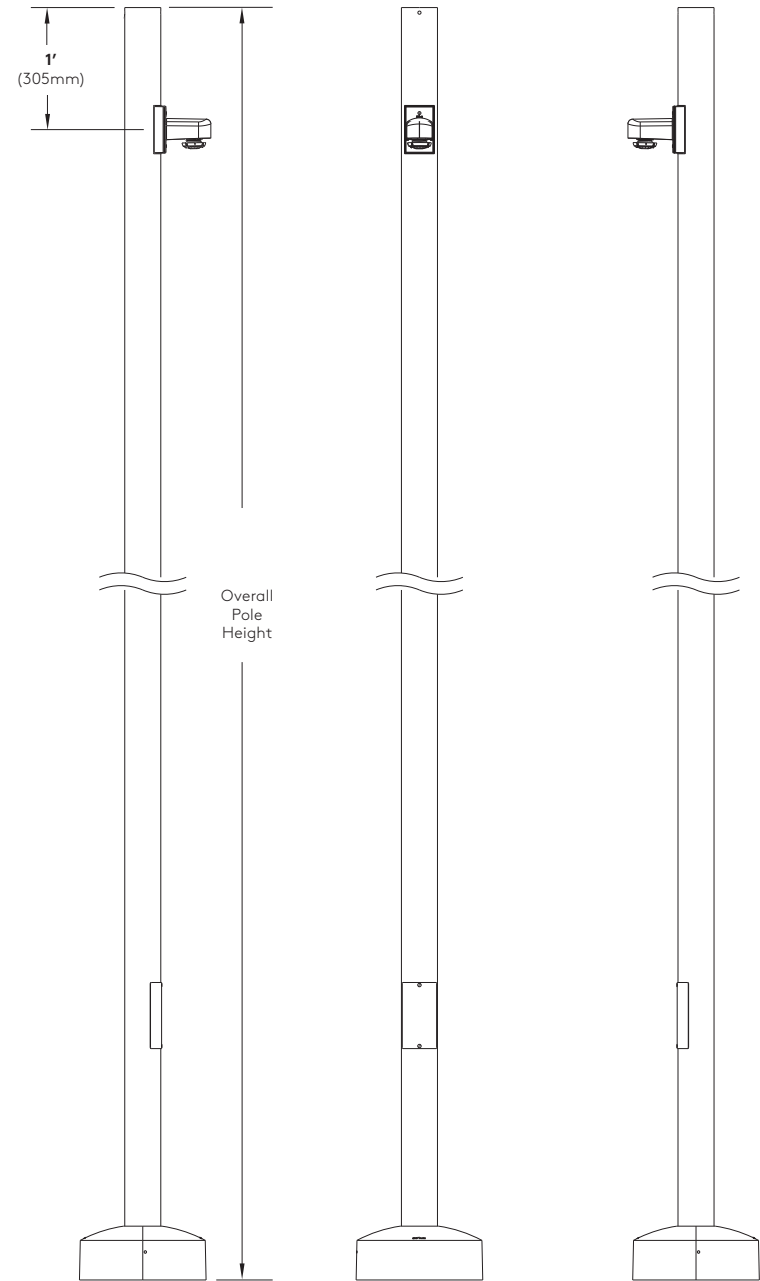
Sensor angular orientation from hand hole 0°
90° increments clockwise around pole (Type 00, 09, 18, 27)

Type 09 (90°)

Hand Hole Location Type 00 (0°)
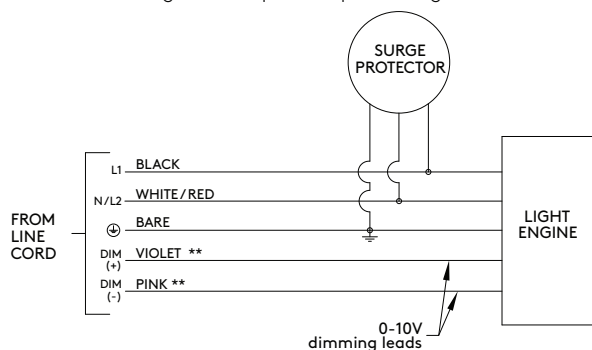
Type 18 (180°)

Type 27 (270°)

Top View
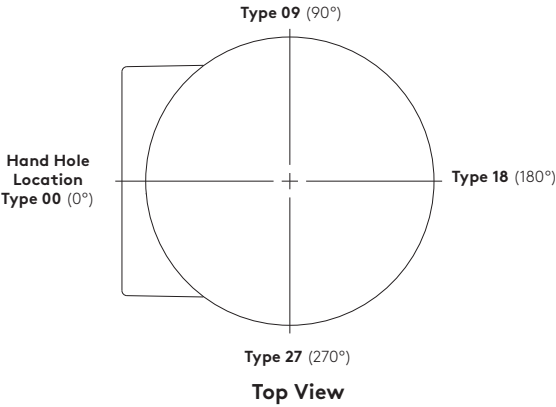
Motion Sensor Features

• Customize programming using smartphone application (Refer to the FSP-321 at www.wattstopper.com).

• 5 Year Warranty.

• 100% Digital PIR Detection, excellent RF Immunity

• 270° coverage pattern.

• IP66 Rated for outdoor applications.

• Made for LED light source.

• Adjustable time delays, max/min dim levels, and ramp rates.

• Suitable for Title 24 applications.

(For coverage details refer to wattstopper FSP-321 spec sheet at www.wattstopper.com).

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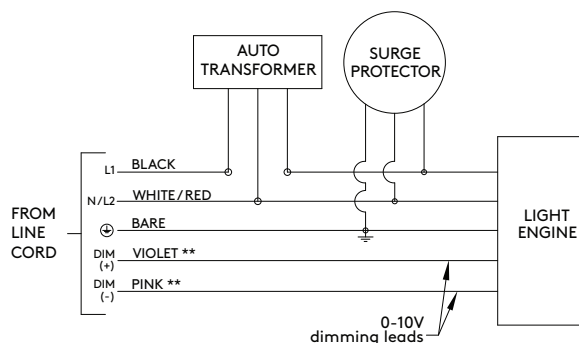
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Wiring Diagrams

Standard Wiring (120V-277V)
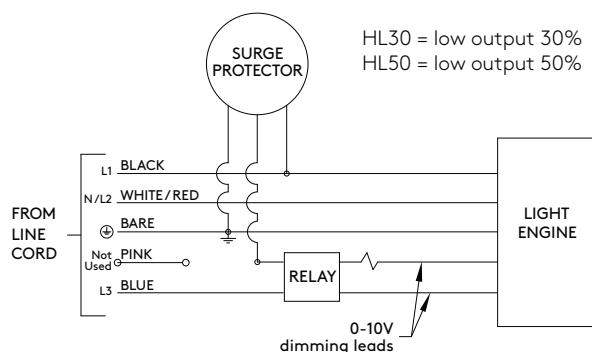**When dimming is not required cap dimming wires.

Standard Wiring (347/480V with Step-down Transformer)
**When dimming is not required cap dimming wires.

Hi-Lo Switching Option (HL) Wiring HL30 & HL50 Only
120V, 240V, 277V. When blue is energized, light output will be at "Lo" level. Specify low-level by using one of the 2 levels listed below (i.e. HL30 or HL50). For other combinations, consult factory
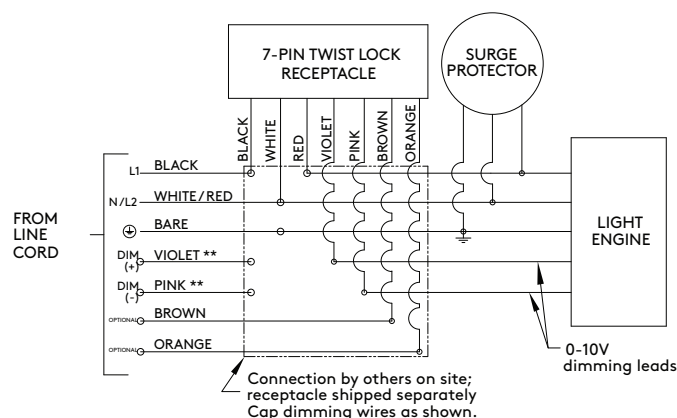
HL30 = low output 30%
HL50 = low output 50%

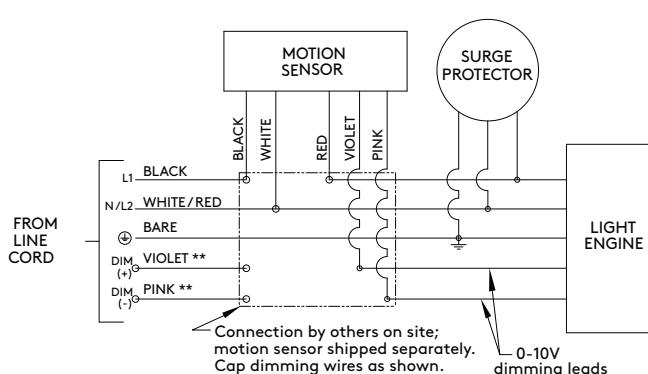### Photocell Option (TLRP) Wiring
**When dimming is not required cap dimming wires.
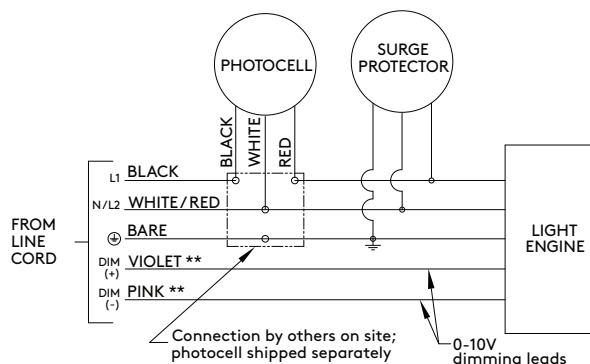
7-Pin Twist Lock Receptacle Option (TLR) Wiring

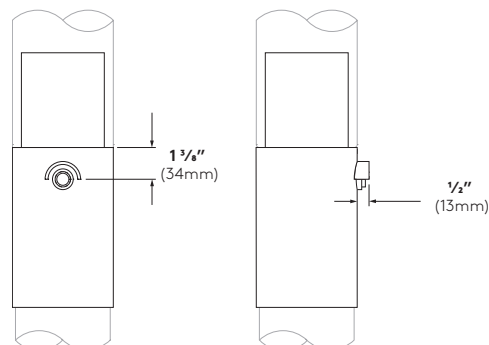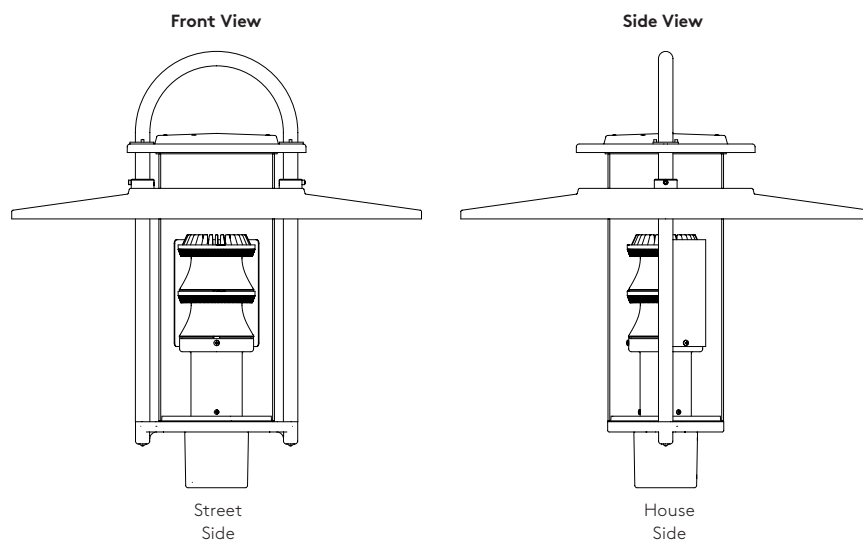### Motion Sensor Option (MS) Wiring (120-480V)

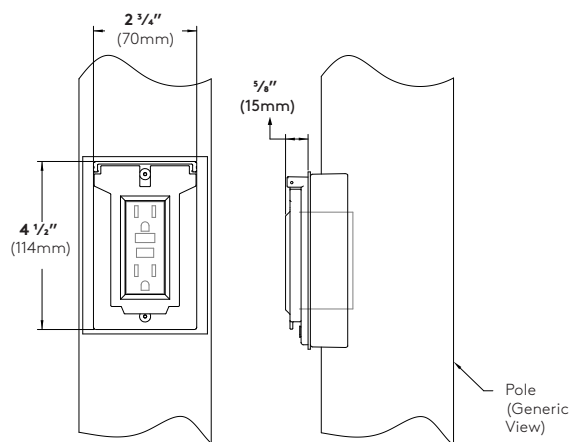| Wire Designation Table		
Source Voltage (VAC)	**Wire Color**	**Wire Designation**
120V, 277V, or 347V	Black	L1
	White	Neutral
208V, 240V, or 480V	Black	L1
	Red	L2
UNV (120-277V)	Black	L1
	White	Neutral (120/277V) or L2 (208/240V)

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Optional Accessories

Photo Cell Tenon (PCT) - Button type photocell mounted in cast aluminum pole top tenon. Tenon has integral cast visor to prevent false start/stop cycle and can be oriented for optimum performance. Refer to luminaire spec sheet to determine if this option is applicable.

1 ³/₈"
(34mm)

¹/₂"
(13mm)

House Side Shield

Front View

Side View

Street
Side

House
Side

REC and REC3

2 ³/₄"
(70mm)

⁵/₈"
(15mm)

4 ¹/₂"
(114mm)

Pole
(Generic
View)

Cover shown in the closed position

REC2 and REC4

3 ⁹/₁₆"
(91mm)

2 ¹/₄"
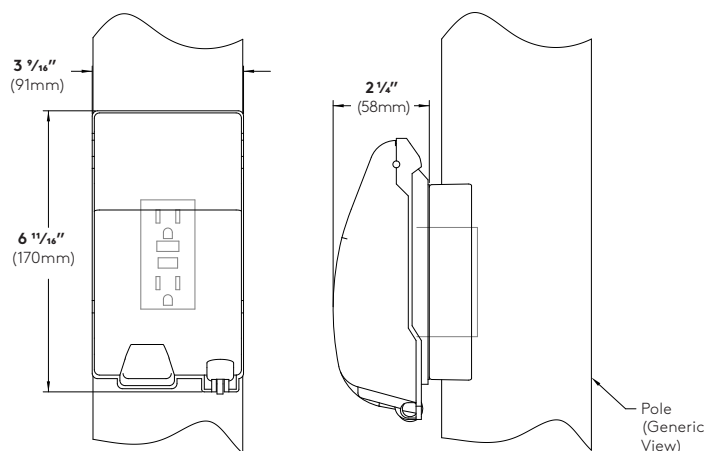(58mm)

6 ¹¹/₁₆"
(170mm)

Pole
(Generic
View)

Cover shown in the closed position

GFCI Duplex Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (914mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & GFCI Duplex Receptacle (REC3) (not shown) - 120V 15A GFCI duplex receptacle with USB combination ports. (1) USB Type-A and (1) USB Type-C port share 2.0A charging capacity between both ports. Includes weatherproof, self-closing cover; located 36" (914mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

GFCI Duplex Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (914mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & GFCI Duplex Receptacle (REC4) (not shown) - 120V 15A GFCI duplex receptacle with USB combination ports. (1) USB Type-A and (1) USB Type-C port share 2.0A charging capacity between both ports. Includes weatherproof, self-closing padlockable in-use cover; located 36" (914mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.
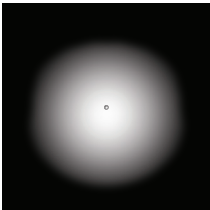
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Photometry

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TA - Distribution Type IV

Light Engine	Lumens	CCT	Input Watts	lm/W	BUG Rating
S1G1	2228	3000K	24	92	B1-U3-G1
S1G2	4569	3000K	48	95	B2-U3-G2
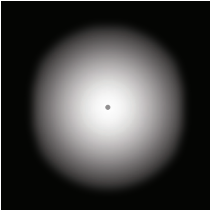
TS - Distribution Type VS

Light Engine	Lumens	CCT	Input Watts	lm/W	BUG Rating
S1G1	2782	3000K	28	100	B1-U3-G1
S1G2	5176	3000K	50	104	B2-U3-G2

Saturn 1 LED

Multiplier Chart	
2200K	0.61
2700K	0.93
3000K	1.00
4000K	1.09
Gold Reflector	0.85
Blue/Red Prism Ring	0.88

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