

Date: _____ Customer: _____
 Project: _____
 Type: _____ Qty: _____



Olivio Medio LED Solar



Order Code: OLMLS - - - - -

Pole Order Code: _____
 Series Height Finish Options

See pages 5 and 6 for details.

<u>OLMLS</u>	Series	OLMLS Olivio Medio LED Solar									
	Optics	S09 Spot, 9°	S20 Spot, 20°	F40 Flood Medium, 41°	F80 Flood, 78° Wide	ASM Asymmetric					
	Mounting	1 Single	2 Double								
	Light Engine	L17 17W/1,496lm	L25 25W/2,150lm	L35 35W/3,010lm	L50 50W/4,300lm						*Based on (F80) distribution and 3000K CCT.
	CCT	30 3000K	40 4000K								
*	Batteries	B1 One 12V 118 Ah	B2 Two 12V 118 Ah	B3 One 12V 146 Ah	B4 Two 12V 146 Ah	B5 One 12V 176 Ah	B6 Two 12V 176 Ah				
*	Panel	P1 110W Single	P2 110W Double	P3 160W Single	P4 160W Double						
*	Operation Profile (see page 4)	1 _____ Hours PM Dim % Hours AM	2 XXX All night 100%	3 XXX All Night 30%	4 XXX 4 hours PM 0 hours AM	5 XXX 6 hours PM 0 hours AM	6 XXX 8 hours PM 0 hours AM	7 XXX 2 hours PM 2 hours AM	8 XXX 4 hours PM 2 hours AM	9 XXX 6 hours PM 2 hours AM	10 XX 8 hours PM 2 hours AM
*	Panel Mounting Angle	PM0 3°	PM1 15°	PM3 30°	PM4 45°	PM6 60°					
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	GV Galvanized	SP Specify Premium Color			
	Options	MS Motion Sensor	DS Dark Sky 0° Tilt option								

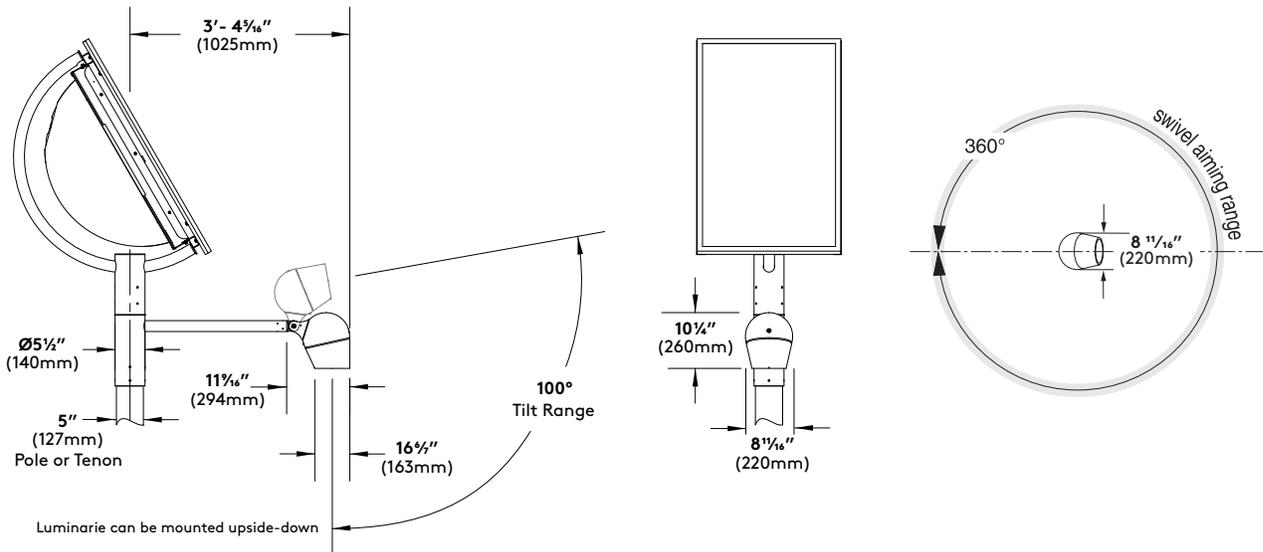
*To be determined by Selux engineering for every project. For system sizing quote, please complete spec sheet and solar questionnaire (under "Additional Downloads" on Selux.us solar web pages) for submission to selux.technical@selux.com

Approvals

Date:



OLMLS



Specifications

Luminaire Housing - High-pressure die-cast low-copper aluminum two-piece housing. Single captive set screw for easy access (IP67).

Mounting Arm - Welded steel with powder coat finish.

Panel Support Frame - Steel frame supports solar panels and storage batteries. Integrated pole fitter allows orientation independent of luminaire.

Gasketing - Continuous silicone gasket between fixture housing and lens provides IP67 level protection.

Light Engine - Made from high flux COB and vacuum metalized aluminum reflectors. Available in 3000K and 4000K, 80+ CRI. Reflectors made from high purity aluminum to ensure high efficiencies throughout lifetime. Complete light engine can be removed easily for future upgrade. LED light engine provides a reported lumen maintenance of 84.47% at 60,000 hours. L70 calculated greater than 60,000 hours.

Smart Controller - Monitors and regulates charging and discharging of batteries. Programmable to control hours of operation (in relation to dusk and dawn). Maximum power-point tracking (MPPT) increases power production by up to 30%. Limited warranty by controller manufacturer for 5 years. Surge protection built in.

Battery Covers - Battery compartment is enclosed with molded recycled ABS with integrated UV protective outer shell. Covers are removable and lock in place.

Batteries - (1-2) 12 Volt 118, 146, 176 Amp Hour maintenance free, non-spillable, sealed absorbed glass matt (AGM) batteries. Battery Capacity is rated at a C-100 discharge rate. Batteries are mounted to hinged tray for easy access.

Solar Panels - Poly-crystalline photovoltaic modules, in (1-2) 110W or (1-2) 160W panels. Panel wattages are nominal.

Motion Sensor - 180° coverage, sensor mounted to pole fitter.

Lens - Tempered clear glass lens

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 Olivio Medio LED Solar 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. Fixture suitable for ambient temperature of 40° C (104° F).

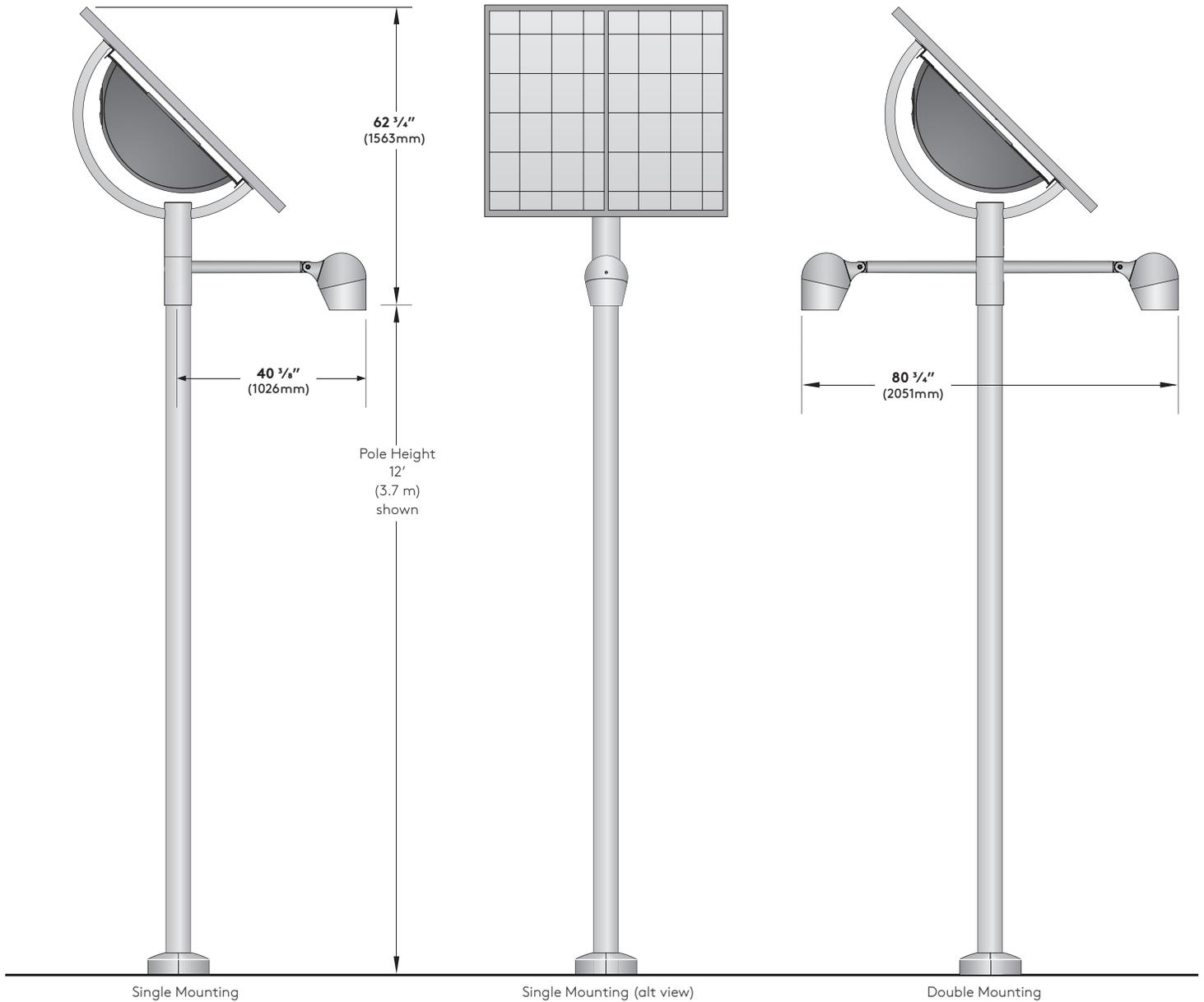
Solar Components Warranty - PV Panels - 20 year performance warranty
Controller - 5 years
Batteries - 1 year (prorated)
For details and exclusions, see "Selux Terms and Condition of Sale."

Listings and Ratings: Tested to IESNA LM-79-08 and LM-80 test standards.

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

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

Mounting Details

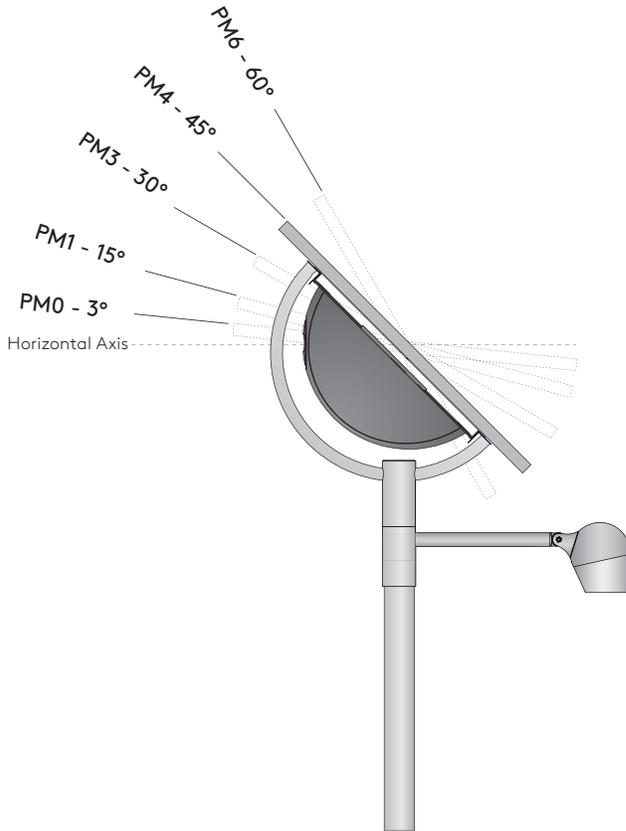


* = Dimension changes based on panel angle and size configurations.
P4 Panel with PM4 (45°) Angle shown. See page 7 for details.

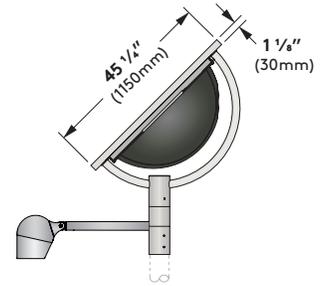
Mounting Option Details

Panel angle and Fixture EPA information

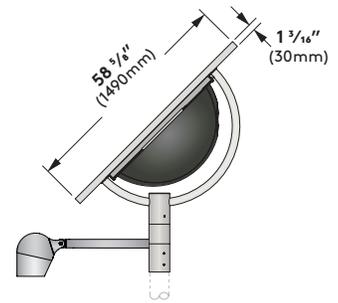
Panels must always be oriented towards the equator. Hence locations in the Northern Hemisphere should be facing SOUTH and locations in the Southern Hemisphere should be facing NORTH.



P1/P2 Detail



P3/P4 Detail



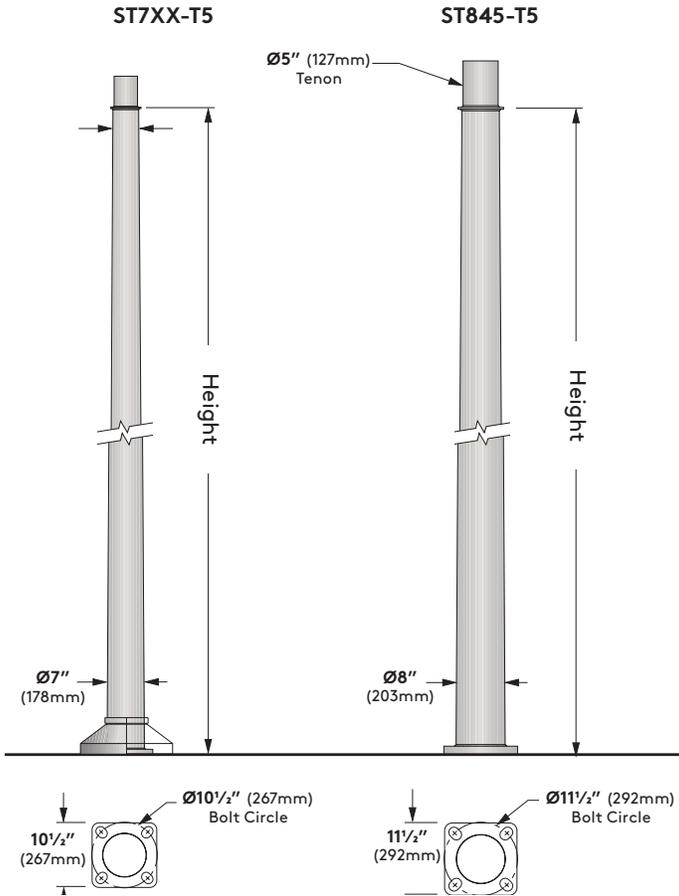
PM0 has a 3° angle to allow for drainage. Batteries, Panel, and Hours of Operation requirements to be determined by Selux engineering for every project, please consult factory. Please consult Selux for specific sizing at your geographic location.

Panel Angle	P1 (110W, Single)			P2 (220W, Double)			P3 (160W, Single)			P4 (320W, Double)		
	Height (h)	Width (w)	EPA (ft ² /m ²)	Height (h)	Width (w)	EPA (ft ² /m ²)	Height (h)	Width (w)	EPA (ft ² /m ²)	Height (h)	Width (w)	EPA (ft ² /m ²)
PM0 3°	"47 1/2" (1207mm)	"26 9/16" (675mm)	6.4/0.59	47 1/2" (1207mm)	53" (1345mm)	6.5/0.60	47 7/8" (1216mm)	26 9/16" (675mm)	6.3/0.58	47 7/8" (1216mm)	53" (1345mm)	6.5/0.60
PM1 15°	"52" (1322mm)	"26 9/16" (675mm)	6.5/0.60	52" (1322mm)	53" (1345mm)	7.4/0.69	3 19/16" (1367mm)	26 9/16" (675mm)	7.7/0.72	53 19/16" (1367mm)	53" (1345mm)	10/0.93
PM3 30°	"57" (1450mm)	"26 9/16" (675mm)	7.3/0.67	57" (1450mm)	53" (1345mm)	12.2/1.13	60 1/2" (1537mm)	26 9/16" (675mm)	10.9/1.01	60 1/2" (1537mm)	53" (1345mm)	15.3/1.42
PM4 45°	"61" (1550mm)	"26 9/16" (675mm)	9.4/0.87	61" (1550mm)	53" (1345mm)	16.4/1.5	65 7/8" (1674mm)	26 9/16" (675mm)	13.9/1.29	65 7/8" (1674mm)	53" (1345mm)	20.4/1.89
PM6 60°	"63 3/4" (1620mm)	"26 9/16" (675mm)	11.0/1.02	63 3/4" (1620mm)	53" (1345mm)	19.7/1.83	69 3/64" (1771mm)	26 9/16" (675mm)	16.3/1.51	69 3/64" (1771mm)	53" (1345mm)	24.1/2.24

Please consult Selux engineering to determine wind load requirements for your specific project. For weight information, see chart on page 6.

Mounting Option Details

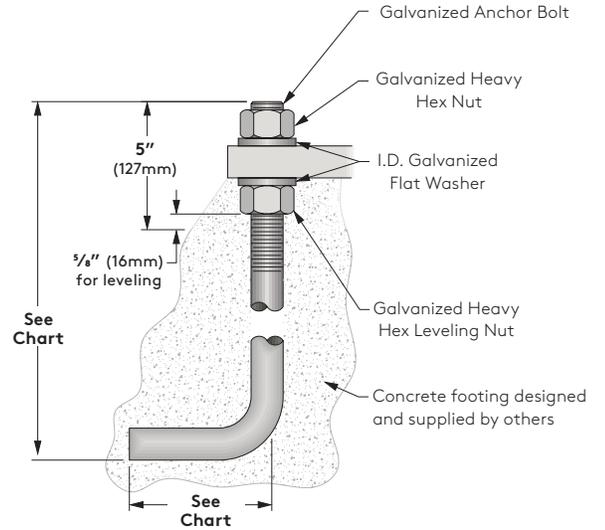
Tapered Steel Pole Information



10.5" x 10.5" x 1.25" Base Plate for ST7, and a 11.5" x 11.5" x 1.25" Base Plate for ST845. Use caution when setting anchor bolts. Bolts must be vertical and centered on dimensions shown. A Ø5" Tenon is required for all poles over Ø5".

Tapered Pole Anchor Bolt Detail

1 1/4" x 48" Anchor Bolt for all Tapered Steel Poles. For Straight Poles, see p. 8.

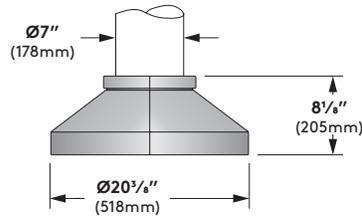


Base Cover Information

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

BC10 Standard Base Cover for r Ø7" tapered steel poles

Two-piece die-cast aluminum, field installable base cover.

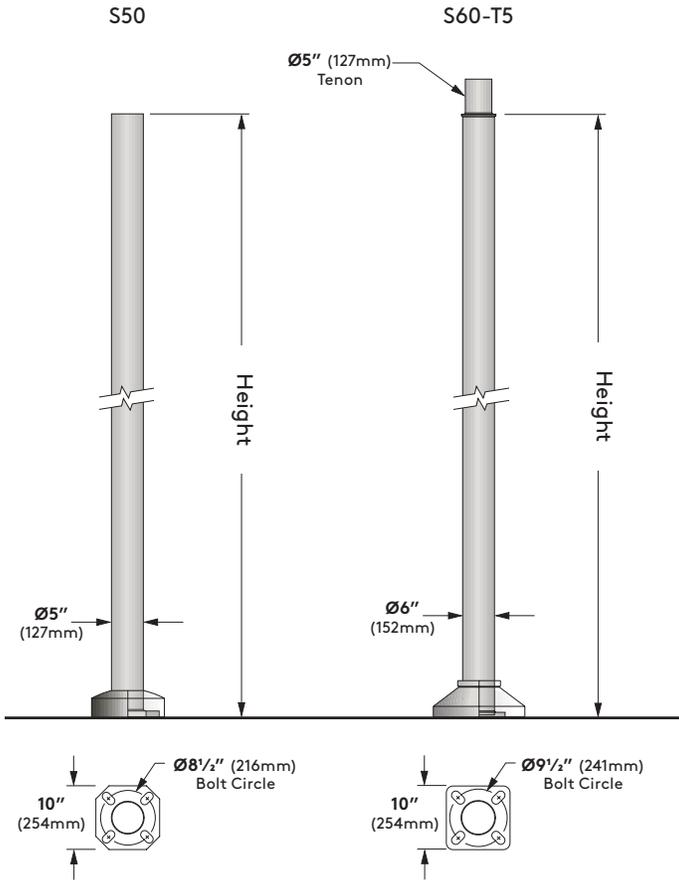


Pole Series	Bolt Circle	AB Size	EPA Information								Height	Finish	Options
			90mph	100mph	110mph	120mph	130mph	140mph	150mph				
ST75 Ø7" (178mm) - Ø5 1/8" (143mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>62	51	42	35	30	26	23	12 12 ft.	WH White BK Black BZ Bronze SV Silver GV Galvanized SP Specify Premium Color	BC10 Optional Two-Piece Cast Aluminum Base Cover (for ST75, ST747, ST745)	
ST75 Ø7" (178mm) - Ø5 1/8" (135mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>80	65	53	45	38	33	29	14 14 ft.			
ST747 Ø7" (178mm) - Ø5 1/8" (129mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>68	56	46	39	33	29	25	16 16 ft.			
ST745 Ø7" (178mm) - Ø5 1/4" (146mm) Tapered Steel Pole	Ø11"	1.25" x 42" x 6"	>74	60	50	42	36	31	27	18 18 ft.			
ST855 Ø8" (203mm) - Ø5 1/2" (140mm) Tapered Steel Pole	Ø11"	1.25" x 42" x 6"	>64	52	43	36	31	27	23				
EPA calculations designed for 3 Second Gust Wind Speeds in mph at 33 ft above ground accordance with the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Fifth Edition, ASSHTO 2009 LTS-5-E													

Please consult Selux engineering to determine wind load requirements for your specific project. See chart on page 7 for fixture and panel EPA values.

Mounting Option Details

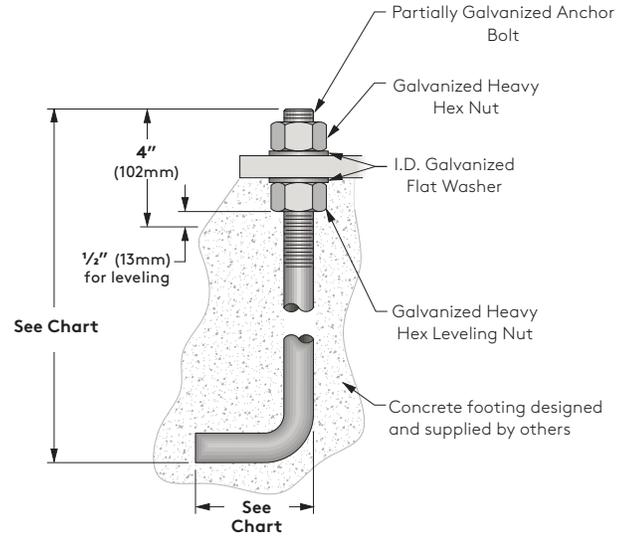
Straight Steel Pole Information



10" x 10" x .75" Base Plate for S50, and a 10" x 10" x 1" Base Plate for S60. Use caution when setting anchor bolts. Bolts must be vertical and centered on dimensions shown. A Ø5" Tenon is required for all poles over Ø5".

Straight Pole Anchor Bolt Detail

See Anchor Bolt (AB) chart below for dimensions.



Base Cover Information

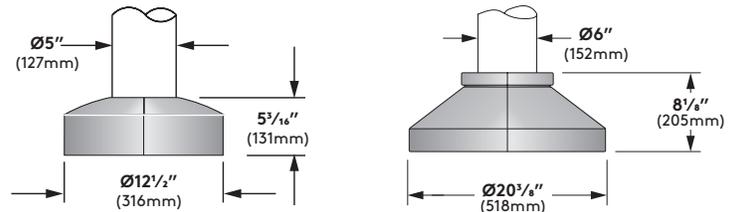
Refer to pole specification sheets for construction details, anchorage information and additional options.

BC3 Standard Base Cover for S50 poles

Two-piece die-cast aluminum, field installable base cover.

BC9 Standard Base Cover for S60 poles

Two-piece die-cast aluminum, field installable base cover.



Pole Series	Bolt Circle	AB Size	EPA Information							Height	Finish	Options
			90mph	100mph	110mph	120mph	130mph	140mph	150mph			
S50 5" (127mm) Diameter Straight Steel Pole	Ø8 1/2"	1" x 36" x 4"	34.5	28	23.5	19.5	16.5	14.5	12.5	10 10 ft.	WH White	BC3 Optional Two-Piece Cast Aluminum Base Cover (for S50 poles only) BC9 Optional Two-Piece Cast Aluminum Base Cover (for S60 poles only)
S50 5" (127mm) Diameter Straight Steel Pole	Ø8 1/2"	1" x 36" x 4"	29	23.5	19.5	16.5	14	12	10.5		BK Black	
S60 6" (152mm) Diameter Straight Steel Pole	Ø9 1/2"	1" x 36" x 4"	60	49	40.5	34.5	29	25	22	14 14 ft.	BL Semi-Matte Black	
S60 6" (152mm) Diameter Straight Steel Pole	Ø9 1/2"	1" x 36" x 4"	51	42	35	29.5	25	21.5	19		BZ Bronze	
S50 5" (127mm) Diameter Straight Steel Pole	Ø8 1/2"	1" x 36" x 4"	20.75	16.5	13.75	11.5	9.75	8.25	7.25	16 16 ft.	SV Silver	
S60 6" (152mm) Diameter Straight Steel Pole	Ø9 1/2"	1" x 42" x 6"	44	36	30	25	21.5	18.5	16		GV Galvanized	
S50 5" (127mm) Diameter Straight Steel Pole	Ø8 1/2"	1" x 36" x 4"	17.5	14	11.5	9.75	8.25	7	6	18 18 ft.	SP Specify Premium Color	
S60 6" (152mm) Diameter Straight Steel Pole	Ø9 1/2"	1" x 42" x 6"	38	31	26	21.5	18.5	16	13.75			

EPA calculations designed for 3 Second Gust Wind Speeds in mph at 33 ft above ground accordance with the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Fifth Edition, ASSHTO 2009 LTS-5-E

Please consult Selux engineering to determine wind load requirements for your specific project. See chart on page 7 for fixture and panel EPA values.

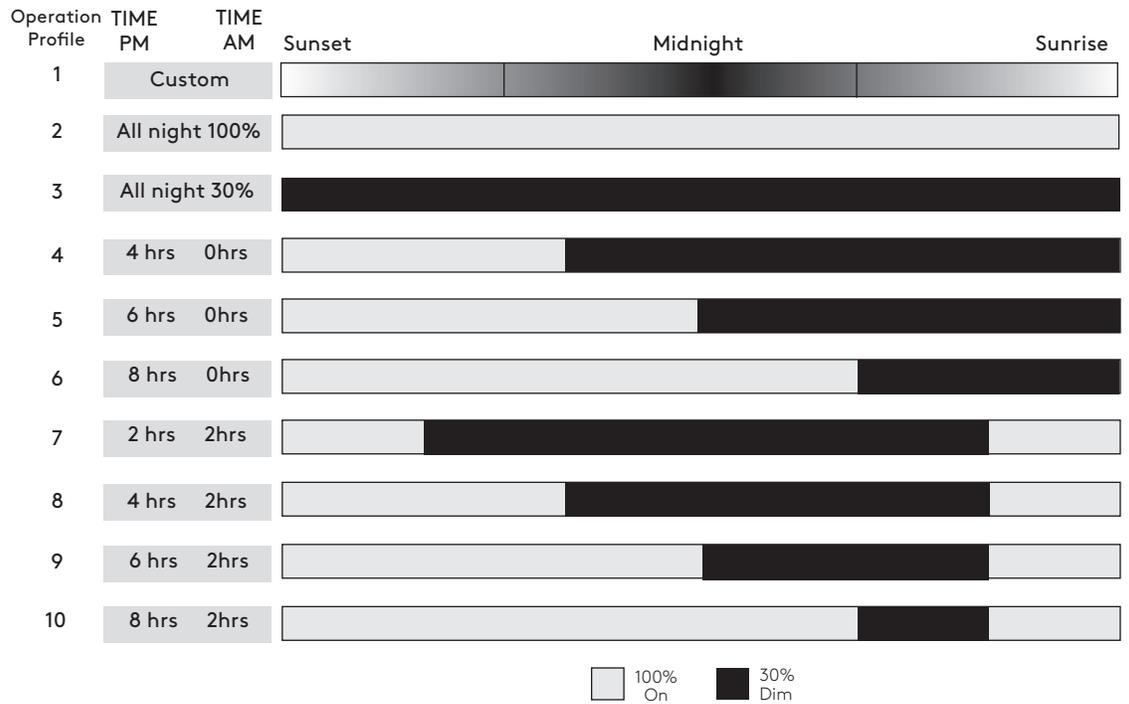
Weight Chart for all Configurations

Fixture Assembly Weights				Systems	
Panel	Batteries	Weights			
		lbs.	kg.		
P1 110W Single Panel (110 Watt)	B1 (1 x 118Ah)	213	97		
	B2 (2 x 118Ah)	276	125		
	B3 (1 x 146Ah)	225	102		
	B4 (2 x 146Ah)	300	136		
	B5 (1 x 176Ah)	241	109		
	B6 (2 x 176Ah)	316	143		
P2 110W Double Panels (220 Watt)	B2 (2 x 118Ah)	296	134		
	B4 (2 x 146Ah)	320	145		
	B6 (2 x 176Ah)	252	114		
P3 160W Single Panel (160 Watt)	B1 (1 x 118Ah)	220	100		
	B2 (2 x 118Ah)	283	128		
	B3 (1 x 146Ah)	232	105		
	B4 (2 x 146Ah)	307	139		
	B5 (1 x 176Ah)	248	112		
	B6 (2 x 176Ah)	339	154		
P4 160W Double Panels (320 Watt)	B2 (2 x 118Ah)	310	141		
	B4 (2 x 146Ah)	334	151		
	B6 (2 x 176Ah)	366	166		

Operation Profile Options

Create a (4) digit code to design your own profile. Example:

<u>1</u>	<u>5</u>	<u>3</u>	<u>4</u>
Profile	Hours	Dim	Hours
	PM	%	AM

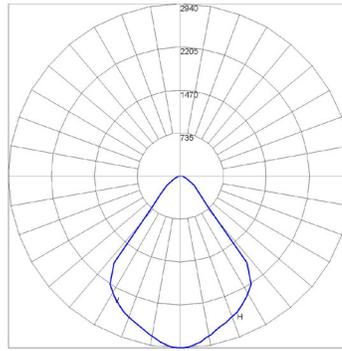


- Profiles 3-10 dim to 30% between PM and AM hours by default.
- Profile 1 provides a custom profile. Dim level can be specified with a single number between 1 and 9. (e.g. 2 = LEDs dimmed to 20% power)

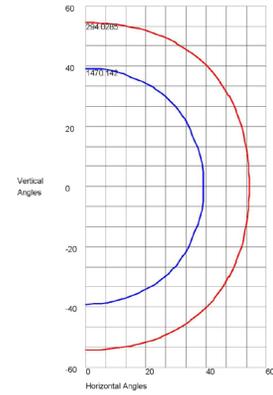
Photometry

F80 / 50W LED / 3000K CCT

Catalog #: OLMLS-F80-X-L50-30
 Delivered Lumens: 4,300
 Input Watts: 50W
 Maximum candela of 2941
 Maximum candela Angle 0H x 0V
 NEMA Classification: 6H x6V



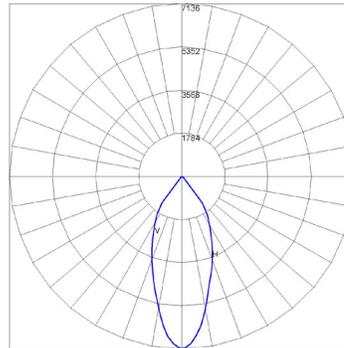
Maximum Candela = 2940.265 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



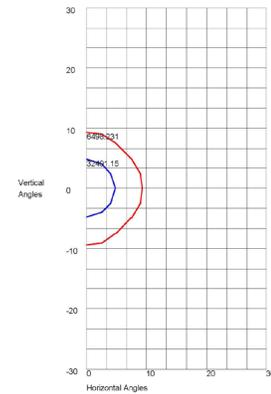
Maximum Candela = 2940.265 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 1470.1425
 10% Maximum Candela = 294.0285

F40 / 50W LED / 3000K CCT

Catalog #: OLMLS-F40-X-L50-30
 Delivered Lumens: 4,300
 Input Watts: 50W
 Maximum candela of 7136
 Maximum candela Angle 0H x 0V
 NEMA Classification: 5H x 5V



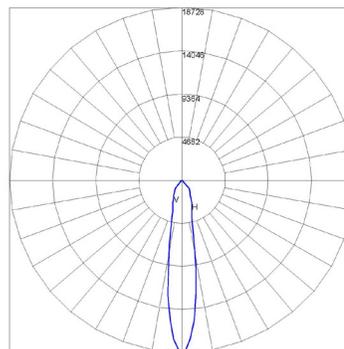
Maximum Candela = 7135.597 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



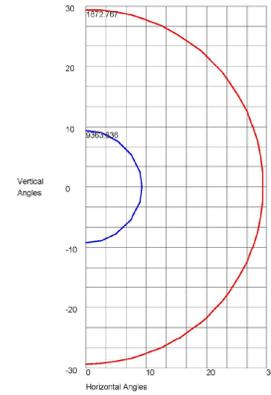
Maximum Candela = 6492.306 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 3246.154
 10% Maximum Candela = 648.2308

S20 / 50W LED / 3000K CCT

Catalog #: OLMLS-S20-X-L50-30
 Delivered Lumens: 4,400
 Input Watts: 50W
 Maximum candela of 18,728
 Maximum candela Angle 0H x 0V
 NEMA Classification: 4H x 4V



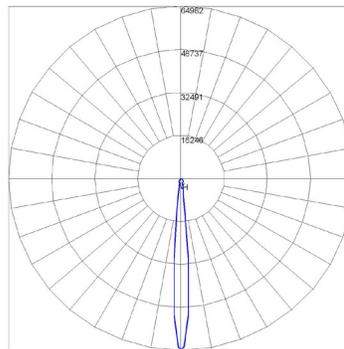
Maximum Candela = 18727.671 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



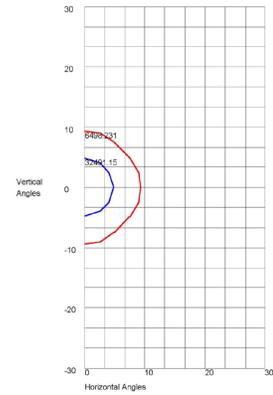
Maximum Candela = 18727.671 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 9363.8355
 10% Maximum Candela = 1872.7671

S09 / 50W LED / 3000K CCT

Catalog #: OLMLS-S09-X-L50-30
 Delivered Lumens: 4,450
 Input Watts: 50W
 Maximum candela of 64,983
 Maximum candela Angle 0H x 0V
 NEMA Classification: 1H x 1V



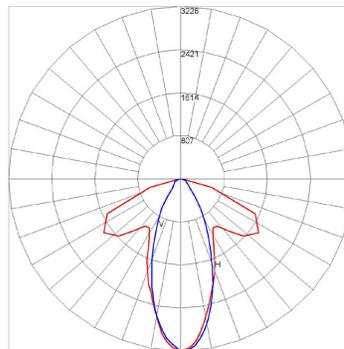
Maximum Candela = 64982.206 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



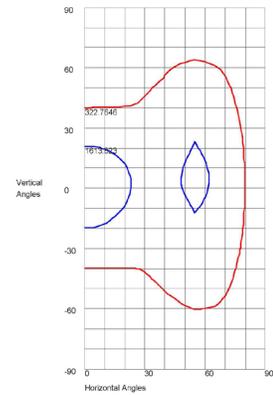
Maximum Candela = 64982.206 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 32491.154
 10% Maximum Candela = 6498.2306

ASM / 50W LED / 3000K

Catalog #: OLMLS-ASM-X-L50-30
 Delivered Lumens: 4,450
 Input Watts: 50W
 Maximum candela of 3228
 Maximum candela Angle 0H x 0V
 NEMA Classification: 1H x 1V



Maximum Candela = 3227.646 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



Maximum Candela = 3227.646 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 1613.823
 10% Maximum Candela = 322.7646