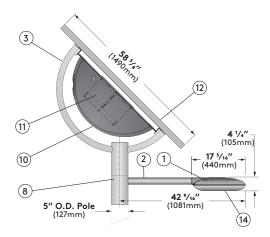
Date:	Customer:	selux
Project:		
Туре:		Qty:

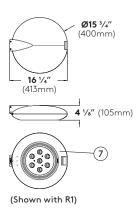
Discera Gen5 LED Solar



der Code:	DSCLS -									
				Po	le Order	Code: _	Series H	eight Fir	- nish	Options
DSCLS	Series	DSCLS Discera Gen5 LED Solar					See pages 8 an	•		
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W (Wide) Type III	R4 Type IV	R5R (Round) Type V			
	Mounting	1 Single	2 Double							
	Light Engine	L17 17W	L25 25W	L35 35W	L50 ¹ 50W	L65 ¹ 65W				¹ Single Mounting Only
	ССТ	271* 2700K	30 ¹ 3000K	35* 3500K	40 4000K	50* 5000K				¹2700K and 3000K IDA Approve * Consult factory for lead ti
	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 PN 0 hours AN		7 XXX 2 hours PM 2 hours AM	8 XXX 4 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	HS ³ House Side Shield (180)							³ Type I, II, III, and IV only
			ec sheet an	d solar ques	tionnaire (ur	nder "Additi	or system sizing onal Download			Approvals

DSCLS





Specifications

- **1. Luminaire Housing -** High pressure die cast low-copper aluminum housing **(IP66).**
- **2. Mounting Arm -** Welded steel with powder coat finish.
- **3. Panel Support Frame -** Steel frame supports solar panels and storage batteries. Integrated pole fitter allows orientation independent of luminaire.
- **4. Gasketing -** (not shown) Silicone gasketing provides seal at door and glass opening.
- **5. Optics -** (not shown) Technical optics (R1, R2, R3, R3W, R4, and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distribution types I, II, III, and IV.
- **6. Light Engine -** (not shown) High Flux LEDs mounted to PC board and attached to aluminum heat sink for maximjum LED/ performance and life. CCT tolerance 3-step binning for 2700K, 3000K, and 4000K. CRI minimum 80. Complete light engine can be removed easily for future upgrade.
- **7. Access Latch -** One hand operated flush latch releases lower section of luminaire housing with integral die cast hinges for easy access to light engine.
- **8. Pole fitter -** Fitter for upper assembly and luminaire secured with six stainless steel, Allen head set screws. Fitters are designed to fit 5" (127mm) poles or tenons.

- **9. Smart Controller -** (not shown) Monitors and regulates charging and discharging of batteries. Programmable to control hours of operation (in relation to dusk and dawn). Maximum power-point tracking (MPT) increases power production by up to 30%. Limited warranty by controller manufacturer for 5 years. Surge protection built in.
- **10. Battery Covers -** Battery compartment is enclosed with molded recycled ABS with integrated UV protective outer shell. Covers are removable and lock in place.
- 11. 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
- **12. Solar Panels -** Poly-crystalline photovoltaic modules, in (1-2) 110W or (1-2) 160W panels. Panel wattages are nominal.
- **13. Motion Sensor -** (not shown) 180° coverage, sensor mounted to pole fitter.
- **14. Access Door -** Lower casting features tempered glass lens and a stainless steel hinge that attaches to upper casting and is secured with a toolless latch for ease of maintenance.
- **15. Lens -** Tempered and screened glass lens protects and helps seal optical chamber.

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. Hot Dip Galvanized finish (GV) on all steel parts also available.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the Discera Gen5 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 -

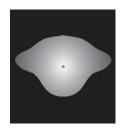
PV Panels - 20 year performance warranty Controller - 5 years Batteries - 1 year (prorated) For details and exclusions, see "Selux Terms and Condition of Sale."

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

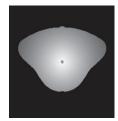
Visit selux.us for our LED End of Life recycling policy.

For Buy American compliance on poles, please consult factory.





R1 - Gen5 Distribution Type I/II							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W			
L17	1,785	3000K	17	105			
L25	2,600	3000K	25	104			
L35	3,570	3000K	35	102			
L50	4,850	3000K	50	97			
L65	6,305	3000K	65	97			



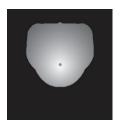
R2 - Gen5 Distribution Type II							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W			
L17	1,785	3000K	17	105			
L25	2,575	3000K	25	103			
L35	3,570	3000K	35	102			
L50	4,850	3000K	50	97			
L65	6,305	3000K	65	97			



R3 - Gen5 Distribution Typ	3 - Gen5 Distribution Type III							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W				
L17	1,870	3000K	17	110				
L25	2,600	3000K	25	104				
L35	3,745	3000K	35	107				
L50	5,100	3000K	50	102				
L65	6,630	3000K	65	102				



R3W - Gen5 Distribution I	.3W - Gen5 Distribution Type III (wide)							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W				
L17	1,819	3000K	17	107				
L25	2,625	3000K	25	105				
L35	3,640	3000K	35	104				
L50	4,900	3000K	50	98				
L65	6,370	3000K	65	98				



R4 - Gen5 Distribution Type III/IV							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W			
L17	1,768	3000K	17	104			
L25	2,575	3000K	25	103			
L35	3,570	3000K	35	102			
L50	4,800	3000K	50	96			
L65	6,240	3000K	65	96			



R5R - Gen5 Distribution Type V (round)							
Light Engine	Lumen Output	ССТ	Input Watts	lm/W			
L17	1,921	3000K	17	113			
L25	2,800	3000K	25	112			
L35	3,570	3000K	35	102			
L50	4,800	3000K	50	96			
L65	6,240	3000K	65	96			

CCT Multiplier Chart						
2700K	0.962					
3000K	1.000					
4000K	1.063					



Operation Profile Options

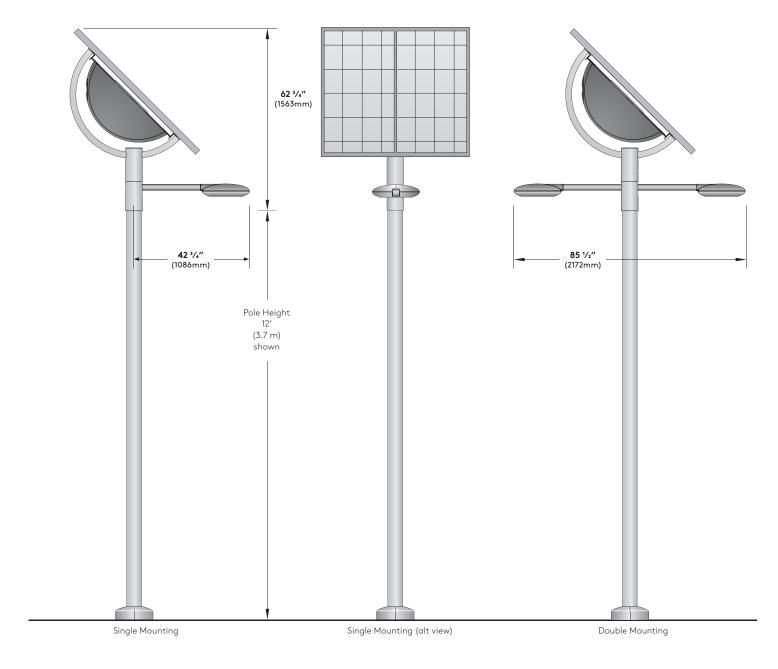
Create a (4) digit code to design your own profile. Example:

1	5	3	4
Profile	Hours	Dim	Hours
	PM	%	AM

Operation Profile	TIME PM	TIME AM	Sunset	Midr	night	Sunrise
1	Cust	om				
2	All nigh	t 100%				
3	All nigh	t 30%				
4	4 hrs	0hrs				
5	6 hrs	0hrs				
6	8 hrs	0hrs				
7	2 hrs	2hrs				
8	4 hrs	2hrs				
9	6 hrs	2hrs				
10	8 hrs	2hrs				
				100% On	30% Dim	

- 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 = 20% LEDs dim to 20% power)

Mounting Details



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



Weight Chart for all Configurations

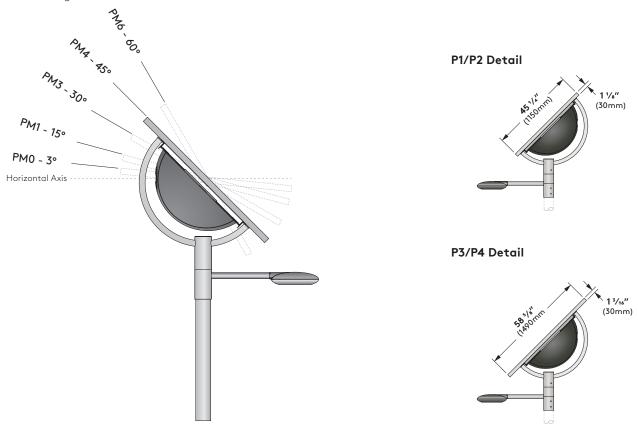
Fixture Assembly \	Weights				
Dan el	Dt.	Weig	ghts	Systems	
Panel	Batteries	lbs.	kg.		
	B1 (1 x 118Ah)	216	98		
	B2 (2 x 118Ah)	279	127		
P1	B3 (1 x 146Ah)	228	103		
110W Single Panel (110 Watt)	B4 (2 x 146Ah)	303	137		
, ,	B5 (1 x 176Ah)	244	111	ld bl	
	B6 (2 x 176Ah)	319	145		
P2	B2 (2 x 118Ah)	303	137		
110W Double Panels (220 Watt)	B4 (2 x 146Ah)	327	148		
(ZZU Watt)	B6 (2 x 176Ah)	359	163		
	B1 (1 x 118Ah)	227	103		
P3	B2 (2 x 118Ah)	290	132		
160W Single Panel	B3 (1 x 146Ah)	239	108		
(160 Watt)	B4 (2 x 146Ah)	314	142		
	B5 (1 x 176Ah)	255	116		
	B6 (2 x 176Ah)	346	157		
P4	B2 (2 x 118Ah)	317	144		
160W Double Panels (320 Watt)	B4 (2 x 146Ah)	341	155		
(320 Walt)	B6 (2 x 176Ah)	373	169		



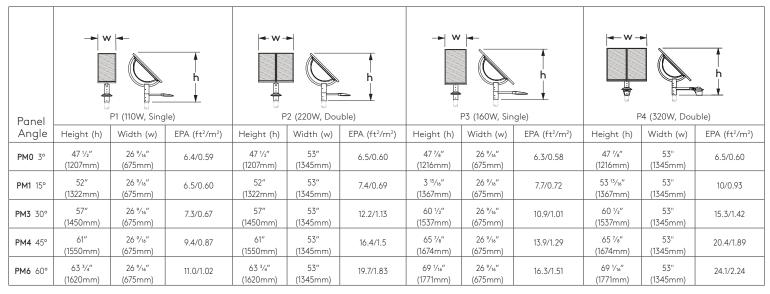
Mounting Option Details

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.



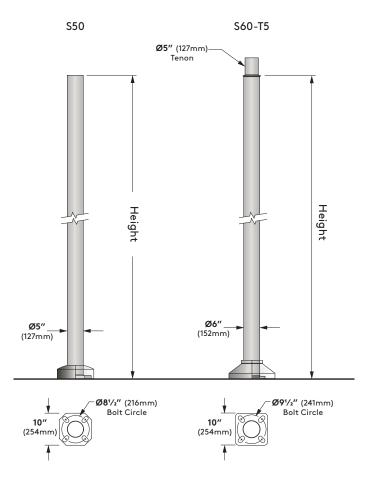
PMO has a 3° angle to allow for drainage. Batteries, Panel, and Hours of Operation requirements to be determined by Selux engineering for every project, please consult factory. Please consult Selux for specific sizing at your geographic location.



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

Mounting Option Details

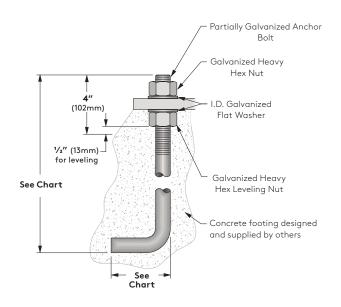
Straight Steel Pole Information



 $10'' \times 10'' \times .75''$ Base Plate for S50, and a $10'' \times 10'' \times 1''$ Base Plate for S60. Use caution when setting anchor bolts. Bolts must be vertical and centered on dimensions shown. A $\emptyset5''$ Tenon is required for all poles over $\emptyset5''$.

Straight Pole Anchor Bolt Detail

See Anchor Bolt (AB) chart below for dimensions.

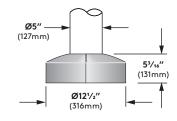


Base Cover Information

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

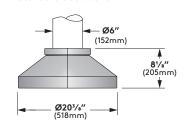
BC3 Standard Base Cover for S50 poles

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.



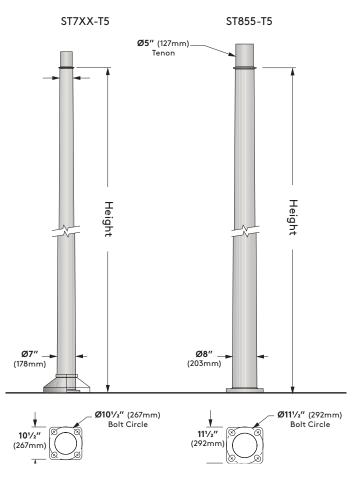
Pole Series	Bolt Circle	AB Size	EPA Information								Finish	Options	
			90mph	100mph	110mph	120mph	130mph	140mph	150mph	Height			
\$50 5" (127mm) Diameter Straight Steel Pole	Ø8 ½"	1" x 36"x 4"	34.5	28	23.5	19.5	16.5	14.5	12.5	10 10 ft.	WH White	BC3	Optional Two-Piece Cast
\$50 5" (127mm) Diameter Straight Steel Pole	Ø8 ½"	1" x 36" x 4"	29	23.5	19.5	16.5	14	12	10.5	10 10 6	BK Black		Aluminum Base
S60 6" (152mm) Diameter Straight Steel Pole	Ø9 ½"	1" x 36" x 4"	60	49	40.5	34.5	29	25	22	12 12 ft.	BL Semi- Matte		Cover (for S50 poles
\$50 5" (127mm) Diameter Straight Steel Pole	Ø8 ½"	1" x 36" x 4"	24.5	20	16.5	14	11.75	10	8.75	14 14 ft.	Black		only)
\$60 6" (152mm) Diameter Straight Steel Pole	Ø9 ½"	1" x 36" x 4"	51	42	35	29.5	25	21.5	19	14 14 IL.	BZ Bronze	,	Optional Two-Piece Cast Aluminum Base Cover (for S60 poles
\$50 5" (127mm) Diameter Straight Steel Pole	Ø8 ½"	1" x 36" x 4"	20.75	16.5	13.75	11.5	9.75	8.25	7.25	14 14 4+	SV Silver		
\$60 6" (152mm) Diameter Straight Steel Pole	Ø9 ½"	1" x 42" x 6"	44	36	30	25	21.5	18.5	16	16 16 ft.	GV Galvanized		
\$50 5" (127mm) Diameter Straight Steel Pole	Ø8 ½"	1" x 36" x 4"	17.5	14	11.5	9.75	8.25	7	6	18 18 ft.	SP Specify Premium		only)
\$60 6" (152mm) Diameter Straight Steel Pole	Ø9 ½"	1" x 42" x 6"	38	31	26	21.5	18.5	16	13.75	7 10 18 ft.	Color		

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 p.7 for fixture and panel EPA values.

Mounting Option Details

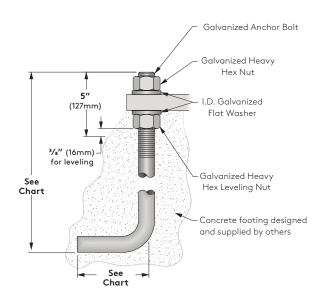
Tapered Steel Pole Information



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 \varnothing 5" Tenon is required for all poles over \varnothing 5".

Tapered Pole Anchor Bolt Detail

See Anchor Bolt (AB) chart below for dimensions.

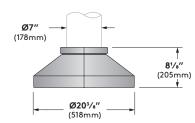


Base Cover Information

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

BC10 Standard Base Cover for Ø7" tapered steel poles.

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



Pole Series	Bolt Circle	AB Size	EPA Information								Finish	Options	
			90mph	100mph	110mph	120mph	130mph	140mph	150mph	Height	1111311	o parans	
ST75 Ø7″ (178mm)- Ø5⁵⁄₀″ (143mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>62	51	42	35	30	26	23	12 12 ft.	BK Black BZ Bronze BL Semi-Matte Black SV Silver	BC10 Optional Two-Piece Cast Alumi- num Base Cover (for ST75, ST747, ST745)	
ST75 Ø7" (178mm)- Ø5 ⁵ / ₁₆ " (135mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>80	65	53	45	38	33	29	14 14 ft.			
ST747 Ø7" (178mm) - Ø5½" (129mm) Tapered Steel Pole	Ø10"	1.25" x 42" x 6"	>68	56	46	39	33	29	25	16 16 ft.			
ST745 Ø7" (178mm)- Ø5³/₄" (146mm) Tapered Steel Pole	Ø11"	1.25" x 42" x 6"	>74	60	50	42	36	31	27	18 18 ft.			
ST855 Ø8" (203mm)- Ø5½" (140mm) Tapered Steel Pole	Ø11"	1.25" x 42" x 6"	>64	52	43	36	31	27	23		GV Galvanized SP Specify		
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										Premium Color			

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