Project		Date
Type		
Model		

SLS Series LED Area Light

DESCRIPTION

The Luminoso SLS Series delivers a high level of performance in a scalable, low-profile design. Our high-efficiency optics system provides uniformity while saving energy, illumining walkways, parking lots, roadways, building areas and security lighting applications. IP65 rated and UL Listed for wet locations.

FEATURES

Our luminaire incorporates five types of optics, T2M, T3M, T4M, T5M, and AFL (Automotive Front-line). With a choice of 9 lumen packages, the SLS LED luminaire allows scalability from 12,800 to 90,000 delivered lumens. The color temperatures available are 3000K, 3500K, 4000K, and 5000K. Corrosion resistant polyester powder painted 100µm thickness. Meets a 1500-hour salt spray certification per ASTM B117/ ISO 9227.





Lumen Maintenance >90%

Hours of Operation 60,000

FINISH:

RAL9011 RAL801N RAL9006 RAL9010

NUMBER OF LIGHT SQUARES



ORDER INFORMATION

EXAMPLE: SLS-SO-06-Y-50K-T4M-BZ-E

RoHS COMPLIANT · 60,000 Hours · LIMITED WARRANTY 5 YEAR · IP65 Rated · UL CERTIFIED · DLC DLC PLUS LISTED PREMIUM Pending

Series	Nominal Power			Voltage	CCT	Optics	Finish	Mounting	Back-light Shield
SLS-SO Standard Output 40W per Light Square 160 lm/W	**02** 80 Watts 12,800 Lumens	**04** 160 Watts 25,600 Lumens	**06** 240 Watts 38,400 Lumens	**Y** 120-277V **HV** 347-480V	**30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**T2M** 2M **T3M** 3M **T4M** 4M **T5M** 5M **AFL** Automotive Front-line	**BK** Black **WH** White **BZ** Bronze **SV** Silver	**ASF** Adjustable Slip Fitter **DA** Direct Arm Mount **TR** Trunnion	**Blank** Standard **BS** Back-light Shield
SLS-HO High Output 50W per Light Square 150 lm/W	**02** 100 Watts 15,000 Lumens **08** 400 Watts 60,000 Lumens	**04** 200 Watts 30,000 Lumens **10** 500 Watts 75,000 Lumens	**06** 300 Watts 45,000 Lumens **12** 600 Watts 90,000 Lumens						

Enter configuration:

Dimensions and values shown are nominal. LuminosoLED continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

PERFORMANCE DATA

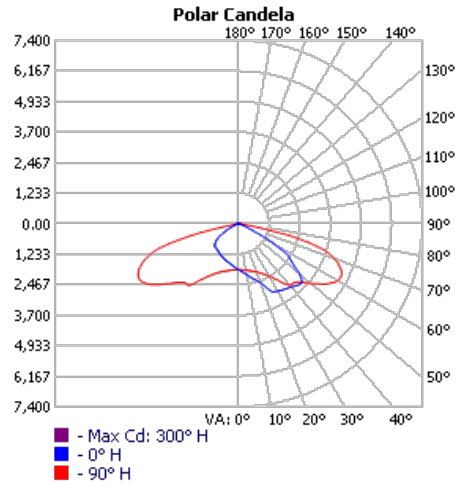
Number of Light Squares	2	4	6
Nominal Power (Watts)	80	160	240
SLS - SO = 40W per Light Square 160 lm/W	12,800	25,600	38,400
Power Factor	0.95	0.95	0.95
CRI	80	80	80
Surge Protection	20kVA	20kVA	20kVA
Frequency	50/60Hz	50/60Hz	50/60Hz
Dimmable	0-10V	0-10V	0-10V
Weight	21.95 lb	28.66 lb	27.47 lb
Dimensions	24.01 x 9.64 x 3.74 in	24.01 x 15.35 x 3.74 in	24.01 x 21.06 x 3.74 in
LED Chips	Bridgelux5050	Bridgelux5050	Bridgelux5050
Operation Temperature	-10ºF to 120ºF	-10ºF to 120ºF	-10ºF to 120ºF
Receptacle	7 Pin NEMA	7 Pin NEMA	7 Pin NEMA
EPA Ratings			
EPA @ 0º	0.9	1.29	1.47
EPA @ 15º	0.94	1.34	1.53
EPA @ 30º	1.08	1.55	1.86
EPA @ 45º	1.8	2.58	2.94

Nominal Lumens are based on 4000K / 5000K*

Number of Light Squares	2	4	6	8	10	12
Nominal Power (Watts)	100	200	300	400	500	600
SLS - HO = 50W per Light Square 150 lm/W	15,000	30,000	45,000	60,000	75,000	90,000
Power Factor	0.95	0.95	0.95	0.95	0.95	0.95
CRI	80	80	80	80	80	80
Surge Protection	20kVA	20kVA	20kVA	20kVA	20kVA	20kVA
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Dimmable	0-10V	0-10V	0-10V	0-10V	0-10V	0-10V
Weight	21.95 lb	28.66 lb	27.47 lb	46.29 lb	55.11 lb	64.59 lb
Dimensions (inches)	24.01x9.64x3.74	24.01x15.35x3.74	24.01x21.06x3.74	24.01x28.38x3.74	24.01x34.21x3.74	24.01x40x3.74
LED Chips	Bridgelux5050	Bridgelux5050	Bridgelux5050	Bridgelux5050	Bridgelux5050	Bridgelux5050
Operation Temperature	-10ºF to 120ºF	-10ºF to 120ºF	-10ºF to 120ºF	-10ºF to 120ºF	-10ºF to 120ºF	-10ºF to 120ºF
Receptacle	7 Pin NEMA	7 Pin NEMA	7 Pin NEMA	7 Pin NEMA	7 Pin NEMA	7 Pin NEMA
EPA Ratings						
EPA @ 0º	0.9	1.29	1.47	1.77	2.16	2.53
EPA @ 15º	0.94	1.34	1.53	1.84	2.25	2.63
EPA @ 30º	1.08	1.55	1.86	2.1	2.59	3.04
EPA @ 45º	1.8	2.58	2.94	3.54	4.32	5.1

Nominal Lumens are based on 4000K / 5000K*

80W (SLS-SO-02-T3M) Polar Candela



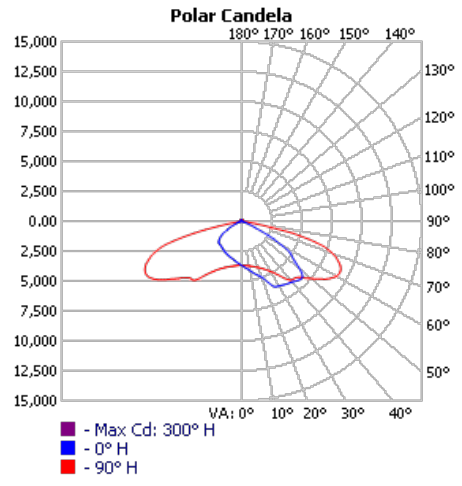
ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	20.4	
Max Cd, 80 to <90 Deg:	1,023.1	
	Lumens	% Lamp
Downward Street Side:	8,559.5	66.8%
Downward House Side:	4,054.5	31.7%
Downward Total:	12,614.0	98.5%
Upward Street Side:	66.8	0.5%
Upward House Side:	128.7	1%
Upward Total:	195.5	1.5%
Total Lumens:	12,809.4	100%

LCS Table

BUG Rating	**B3 - U3 - G3**	
Forward Light	Lumens	Lumens%
Low(0-30):	1,040.3	8.1%
Medium(30-60):	4,745.9	37%
High(60-80):	2,737.8	21.4%
Very High(80-90):	35.5	0.3%
Back Light		
Low(0-30):	739.0	5.8%
Medium(30-60):	2,158.8	16.9%
High(60-80):	1,114.7	8.7%
Very High(80-90):	42.0	0.3%
Uplight		
High(90-100):	14.5	0.1%
Very High(100-180):	180.9	1.4%
Trapped Light:	0.6	0%

160W (SLS-SO-04-T3M) Polar Candela



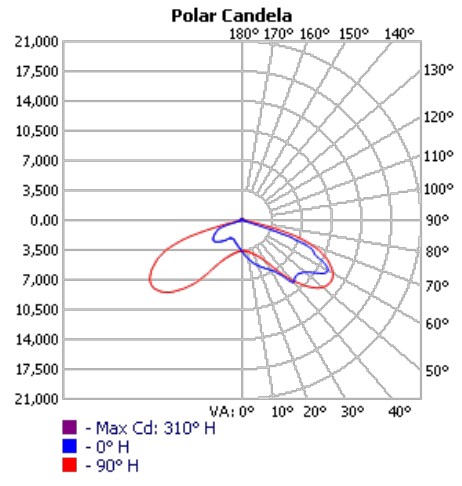
ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	40.5	
Max Cd, 80 to <90 Deg:	2,034.0	
	Lumens	% Lamp
Downward Street Side:	17,017.0	66.8%
Downward House Side:	8,060	31.7%
Downward Total:	25,077.5	98.5%
Upward Street Side:	132.7	0.5%
Upward House Side:	255.9	1%
Upward Total:	388.6	1.5%
Total Lumens:	25,466.1	100%

LCS Table

BUG Rating	**B3 - U3 - G3**	
Forward Light	Lumens	Lumens%
Low(0-30):	2,068.2	8.1%
Medium(30-60):	9,435.2	37.1%
High(60-80):	5,442.9	21.4%
Very High(80-90):	70.6	0.3%
Back Light		
Low(0-30):	1,469.2	5.8%
Medium(30-60):	4,291.9	16.9%
High(60-80):	2,216.1	8.7%
Very High(80-90):	83.4	0.3%
Uplight		
High(90-100):	28.9	0.1%
Very High(100-180):	359.7	1.4%
Trapped Light:	0.000	0%

240W (SLS-SO-06-T3M) Polar Candela



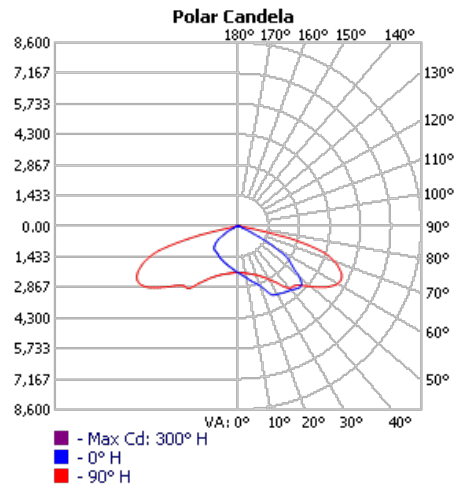
ROADWAY SUMMARY

Cutoff Classification:	SEMI-CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	95.0	
Max Cd, 80 to <90 Deg:	4,040.9	
	Lumens	% Lamp
Downward Street Side:	27,961.2	71.3%
Downward House Side:	10,717.7	27.3%
Downward Total:	38,678.9	98.6%
Upward Street Side:	164.7	0.4%
Upward House Side:	391.9	1%
Upward Total:	556.6	1.4%
Total Lumens:	39,235.5	100%

LCS Table

BUG Rating	**B4 - U4 - G4**	
Forward Light	Lumens	Lumens%
Low(0-30):	2,353.2	6%
Medium(30-60):	14,542.7	37.1%
High(60-80):	10,839.4	27.6%
Very High(80-90):	225.9	0.6%
Back Light		
Low(0-30):	1,380.5	3.5%
Medium(30-60):	5,537.8	14.1%
High(60-80):	3,603.9	9.2%
Very High(80-90):	195.5	0.5%
Uplight		
High(90-100):	53.2	0.1%
Very High(100-180):	503.4	1.3%
Trapped Light:	0.000	0%

100W (SLS-HO-02-T3M) Polar Candela



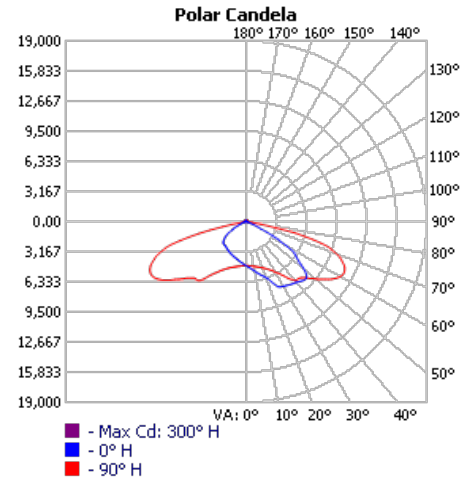
ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	23.9	
Max Cd, 80 to <90 Deg:	1,198.9	
	Lumens	% Lamp
Downward Street Side:	10,030.7	66.8%
Downward House Side:	4,751.3	31.6%
Downward Total:	14,782.0	98.5%
Upward Street Side:	78.2	0.5%
Upward House Side:	150.8	1%
Upward Total:	229.0	1.5%
Total Lumens:	15,011.1	100%

LCS Table

BUG Rating	**B3 - U3 - G3**	
Forward Light	Lumens	Lumens%
Low(0-30):	1,219.1	8.1%
Medium(30-60):	5,561.6	37%
High(60-80):	3,208.3	21.4%
Very High(80-90):	41.6	0.3%
Back Light		
Low(0-30):	866.0	5.8%
Medium(30-60):	2,529.9	16.9%
High(60-80):	1,306.3	8.7%
Very High(80-90):	49.2	0.5%
Uplight		
High(90-100):	17.0	0.1%
Very High(100-180):	212.0	1.4%
Trapped Light:	1.9	0%

200W (SLS-HO-04-T3M) Polar Candela



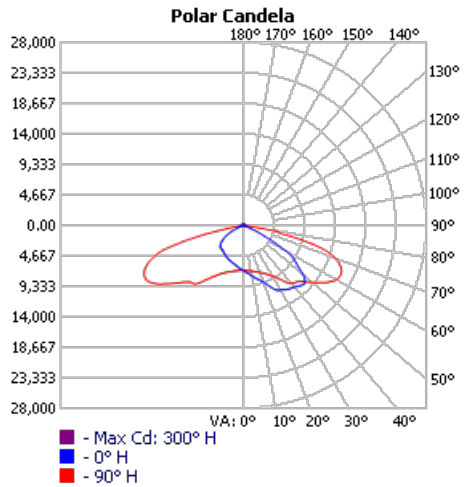
ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	50.9	
Max Cd, 80 to <90 Deg:	2,557.7	
	Lumens	% Lamp
Downward Street Side:	21,398.8	66.8%
Downward House Side:	10,139.2	31.6%
Downward Total:	31,535.0	98.5%
Upward Street Side:	166.9	0.5%
Upward House Side:	321.7	1%
Upward Total:	488.6	1.5%
Total Lumens:	32,023.6	100%

LCS Table

BUG Rating	**B4 - U3 - G4**	
Forward Light	Lumens	Lumens%
Low(0-30):	2,600.8	8.1%
Medium(30-60):	11,864.8	37%
High(60-80):	6,844.5	21.4%
Very High(80-90):	88.8	0.3%
Back Light		
Low(0-30):	1,847.5	5.8%
Medium(30-60):	5,397.0	16.9%
High(60-80):	2,786.7	8.7%
Very High(80-90):	104.9	0.3%
Uplight		
High(90-100):	36.3	0.1%
Very High(100-180):	452.3	1.4%
Trapped Light:	2.4	0%

300W (SLS-HO-06-T3M) Polar Candela



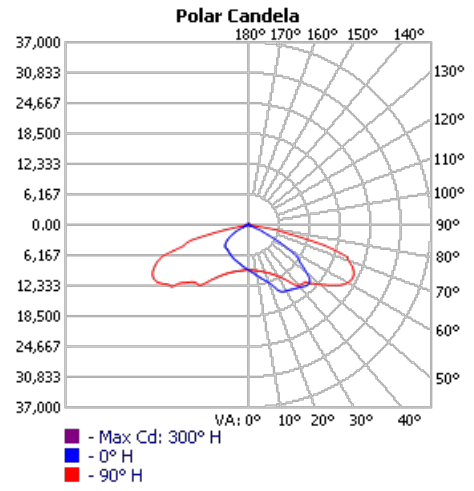
ROADWAY SUMMARY

Cutoff Classification:	SEMI-CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	66.8.	
Max Cd, 80 to <90 Deg:	4,995.8	
	Lumens	% Lamp
Downward Street Side:	31,672.9	67%
Downward House Side:	14,942.0	31.6%
Downward Total:	46,614.8	98.6%
Upward Street Side:	217.9	0.5%
Upward House Side:	435.0	0.9%
Upward Total:	652.9	1.4%
Total Lumens:	47,267.7	100%

LCS Table

BUG Rating	**B4 - U4 - G4**	
Forward Light	Lumens	Lumens%
Low(0-30):	3,818.6	8.1%
Medium(30-60):	17,466.0	37%
High(60-80):	10,256.3	21.7%
Very High(80-90):	132.1	0.3%
Back Light		
Low(0-30):	2,738.1	5.8%
Medium(30-60):	7,859.7	16.6%
High(60-80):	4,178.2	8.8%
Very High(80-90):	165.9	0.4%
Uplight		
High(90-100):	50.0	0.1%
Very High(100-180):	602.9	1.3%
Trapped Light:	0.006	0%

400W (SLS-HO-08-T3M) Polar Candela



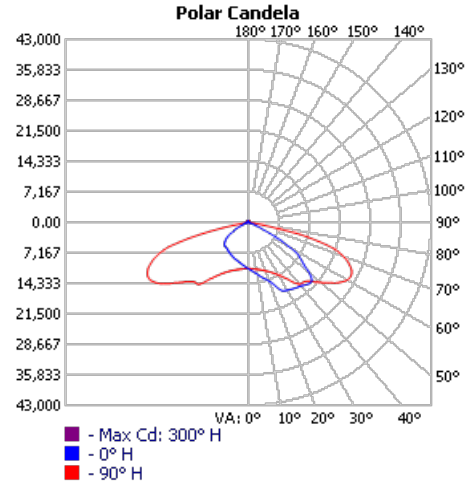
ROADWAY SUMMARY

Cutoff Classification:	SEMI-CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	85.8	
Max Cd, 80 to <90 Deg:	5,915.7	
	Lumens	% Lamp
Downward Street Side:	42,009.1	66.9%
Downward House Side:	19,977.7	31.8%
Downward Total:	61,986.8	98.7%
Upward Street Side:	272.4	0.4%
Upward House Side:	538.7	0.9%
Upward Total:	811.1	1.3%
Total Lumens:	62,797.9	100%

LCS Table

BUG Rating	**B5 - U4 - G5**	
Forward Light	Lumens	Lumens%
Low(0-30):	5,130.6	8.2%
Medium(30-60):	23,346.2	37.2%
High(60-80):	13,363.5	21.3%
Very High(80-90):	168.8	0.3%
Back Light		
Low(0-30):	3,619.9	5.8%
Medium(30-60):	10,569.7	16.8%
High(60-80):	5,570.9	8.9%
Very High(80-90):	217.1	0.3%
Uplight		
High(90-100):	64.0	0.1%
Very High(100-180):	747.1	1.2%
Trapped Light:	0.000	0%

500W (SLS-HO-10-T3M) Polar Candela



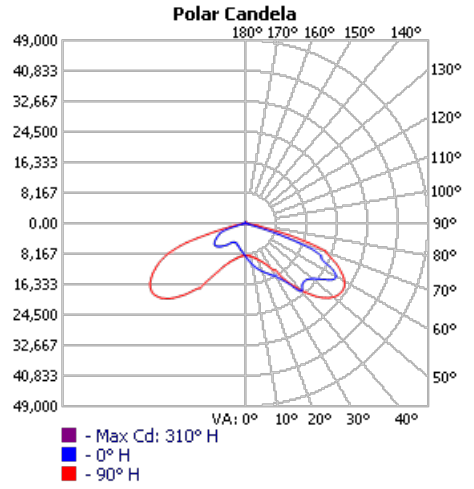
ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	119.4	
Max Cd, 80 to <90 Deg:	5,994.7	
	Lumens	% Lamp
Downward Street Side:	50,153.5	66.8%
Downward House Side:	23,756.7	31.6%
Downward Total:	73,910.1	98.5%
Upward Street Side:	391.2	0.5%
Upward House Side:	754.1	1%
Upward Total:	1,145.2	1.5%
Total Lumens:	75,055.3	100%

LCS Table

BUG Rating	**B5 - U5 - G5**	
Forward Light	Lumens	Lumens%
Low(0-30):	6,095.6	8.1%
Medium(30-60):	27,808.0	37%
High(60-80):	16,041.7	21.4%
Very High(80-90):	208.1	0.3%
Back Light		
Low(0-30):	4,330.1	5.8%
Medium(30-60):	12,649.3	16.9%
High(60-80):	6,531.3	8.7%
Very High(80-90):	245.9	0.3%
Uplight		
High(90-100):	85.1	0.1%
Very High(100-180):	1,060.2	1.4%
Trapped Light:	9.6	0%

600W (SLS-HO-12-T4M) Polar Candela



ROADWAY SUMMARY

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	206.6	
Max Cd, 80 to <90 Deg:	8,311.7	
	Lumens	% Lamp
Downward Street Side:	67,575.9	71.4%
Downward House Side:	25,904.4	27.4%
Downward Total:	93,480.3	98.8%
Upward Street Side:	334.6	0.4%
Upward House Side:	822.1	0.9%
Upward Total:	1,156.8	1.2%
Total Lumens:	94,637.0	100%

LCS Table

BUG Rating	**B5 - U5 - G5**	
Forward Light	Lumens	Lumens%
Low(0-30):	5,685.1	6%
Medium(30-60):	35,588.1	37.6%
High(60-80):	25,751.4	27.2%
Very High(80-90):	551.2	0.6%
Back Light		
Low(0-30):	3,320.8	3.5%
Medium(30-60):	13,530.9	14.3%
High(60-80):	8,600.0	9.1%
Very High(80-90):	452.7	0.5%
Uplight		
High(90-100):	114.8	0.1%
Very High(100-180):	1,041.9	1.1%
Trapped Light:	0.1	0%