

# Photometrics Pro

## Luminaire Photometric Report

Filename: SWL - Solar Wall Light - Butterfly - 8W - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 852.9

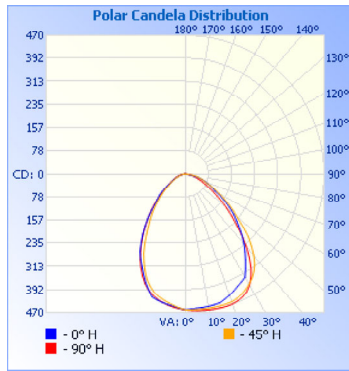
Max Candela: 470.0 at Horizontal: 90°, Vertical: 15°

Luminous Opening: Point

Test Date: 2021-07-12

Photometry : Type B

Nema Type: 7 X 7



### Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	0.3	
Max Cd, 80 to <90 Deg:	30.7	
	Lumens	% Lamp
Downward Street Side:	505.0	59.2%
Downward House Side:	388.2	45.5%
Downward Total:	893.2	104.7%
Total Lumens:	893.2	104.7%

### Flood Summary

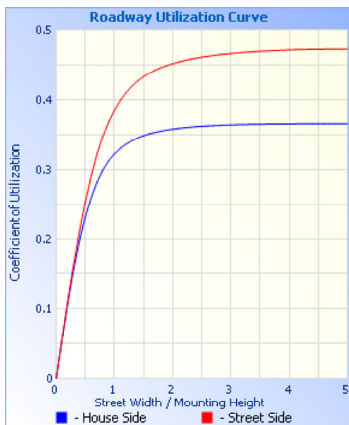
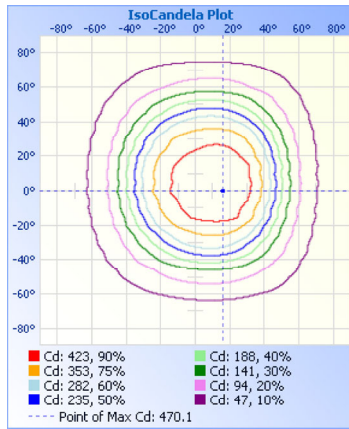
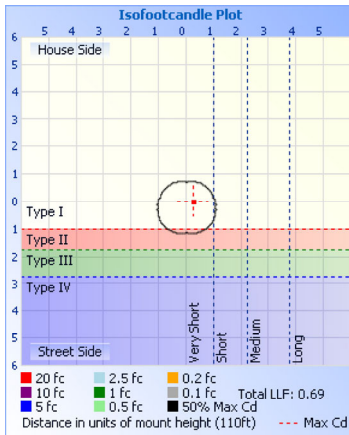
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	100.7%	858.6	133.5	138
Beam (50%):	68%	580.3	82.1	84.1
Total:	104.7%	892.8		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	347.3	40.7%	38.9%
0-40	539.1	63.2%	60.4%
0-60	799.9	93.8%	89.6%
60-90	93.1	10.9%	10.4%
0-90	893.0	104.7%	100%

### Lumens Per Zone

Zone	Lumens	% Total
0-10	43.3	4.8%
10-20	123.9	13.9%
20-30	180.1	20.2%
30-40	191.8	21.5%
40-50	156.0	17.5%
50-60	104.9	11.7%
60-70	61.9	6.9%
70-80	29.0	3.2%
80-90	2.3	0.3%



Center Beam fc	Beam Width
115 fc	3.6 ft 3.5 ft
28.8 fc	7.2 ft 7.0 ft
12.8 fc	10.8 ft 10.4 ft
7.20 fc	14.4 ft 13.9 ft
4.61 fc	18.1 ft 17.4 ft
3.20 fc	21.7 ft 20.9 ft

Vert. Spread: 84.1°  
Horiz. Spread: 82.1°

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0			
RCC: 0	1.25	1.25	1.25	1.25	1.22	1.22	1.22	1.05	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.07	1.07	1.07	1.07	1.05	1.05			
1	1.16	1.12	1.08	1.05	1.13	1.10	1.06	.93	1.05	1.03	1.00	1.01	.99	.97	.98	.96	.94	.92	.94	.92	.92			
2	1.07	1.00	.94	.89	1.05	.98	.93	.82	.95	.90	.86	.91	.88	.84	.88	.85	.82	.80	.82	.80	.80			
3	.99	.90	.83	.77	.97	.88	.81	.72	.85	.80	.75	.83	.78	.74	.80	.76	.72	.70	.72	.70	.70			
4	.92	.81	.73	.67	.90	.80	.72	.64	.77	.71	.66	.75	.69	.65	.73	.68	.64	.62	.64	.62	.62			
5	.85	.73	.65	.59	.83	.72	.65	.57	.70	.63	.58	.68	.62	.58	.66	.61	.57	.55	.57	.55	.55			
6	.79	.67	.59	.53	.78	.66	.58	.51	.64	.57	.52	.63	.56	.52	.61	.55	.51	.49	.51	.49	.49			
7	.74	.61	.53	.47	.72	.61	.53	.46	.59	.52	.47	.58	.51	.46	.56	.51	.46	.44	.46	.44	.44			
8	.69	.56	.48	.43	.68	.56	.48	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.40	.42	.40	.40			
9	.65	.52	.44	.39	.64	.52	.44	.38	.50	.44	.39	.49	.43	.39	.48	.43	.38	.37	.38	.37	.37			
10	.61	.48	.41	.36	.60	.48	.41	.35	.47	.40	.36	.46	.40	.35	.45	.39	.35	.34	.35	.34	.34			

Candela Table - Type B

Table with 37 columns and 37 rows. The first row contains column headers labeled from -90 to -1. The first column contains row headers labeled from 90 to -90. The cells contain numerical values representing light intensity, with 0s for off-diagonal elements and a diagonal sequence of values starting at 1 in the top-left and increasing to 90 in the bottom-right.

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2021-07-12  
[TESTLAB]  
[ISSUEDATE] 2021-07-12 20:02:31  
[MANUFAC] SARIN Energy Solutions  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 892.8  
[OTHER] EVERFINE GO-2000B\_V1 SYSTEM  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 181  
FILE: COORDINATE SYSTEM: TYPE B  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.