

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** WLOW1048P - Wall Sconce - CCT - 7W - IES

**Manufacturer:** SARIN Energy Solutions

**Luminaire:** LED Wall light

**Lamp Output:** 1 lamp, rated Lumens/lamp: 865.9

**Max Candela:** 148.2 at Horizontal: 45°, Vertical: 90°

**Input Wattage:** 11.49

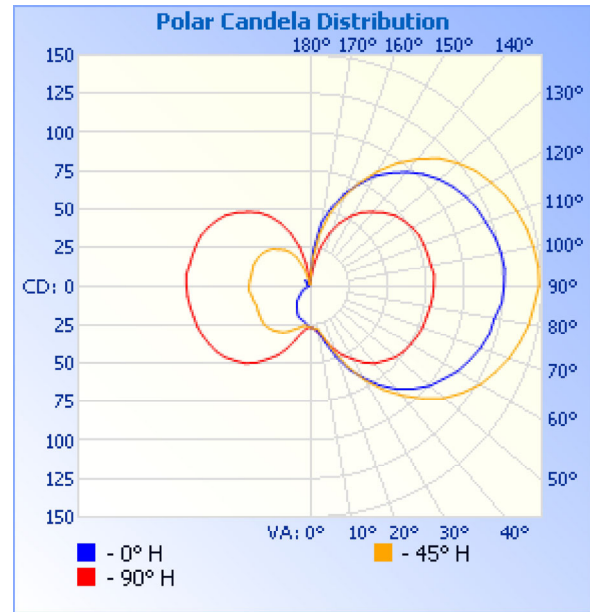
**Luminous Opening:** Rectangle w/Luminous Sides (L: 2.76", W: 2.76", H: 8.27")

**Test:** LCZP22110058

**Test Date:** 2022/11/11

**Test Lab:** LCTECH 221108104001

**Photometry :** Type C

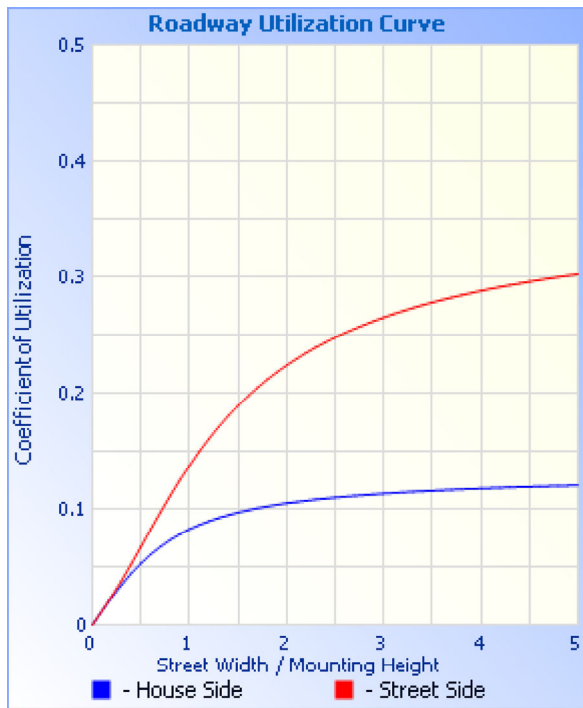
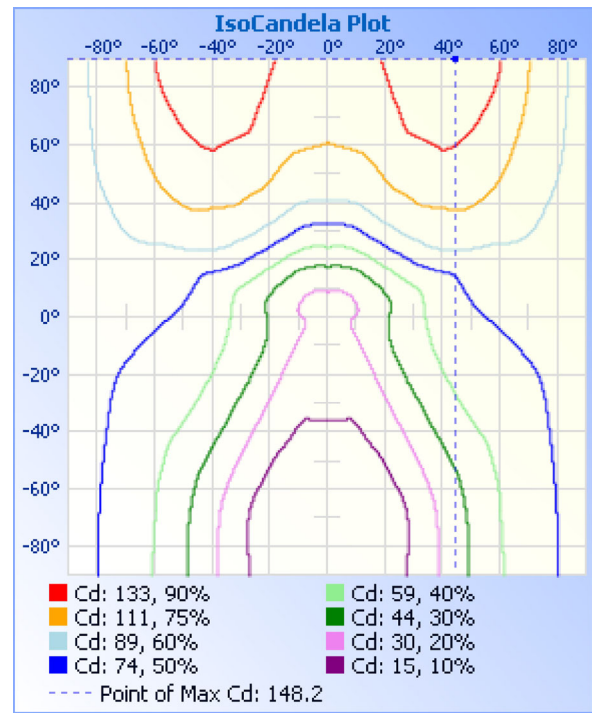
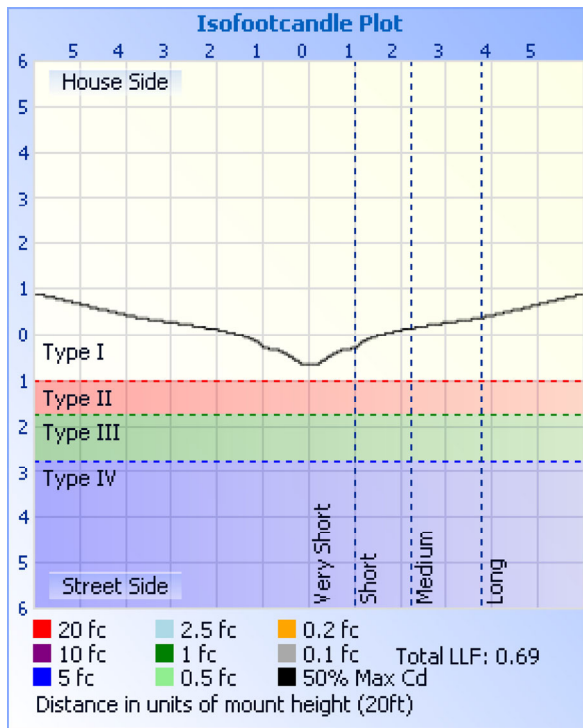


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	Unclassified, Unclassified	
Max Cd, 90 Deg Vert:	148.2	
Max Cd, 80 to <90 Deg:	145.5	
	Lumens	% Lamp
Downward Street Side:	313.8	36.2%
Downward House Side:	114.2	13.2%
Downward Total:	428.1	49.4%
Upward Street Side:	335.2	38.7%
Upward House Side:	103.0	11.9%
Upward Total:	438.2	50.6%
Total Lumens:	866.3	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.8%	855.6	n/a	n/a
Beam (50%):	70.6%	611.0	n/a	161.2
Total:	100%	866.2		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	32.6	3.8%	3.8%
0-40	67.5	7.8%	7.8%
0-60	181.5	21%	20.9%
60-90	246.7	28.5%	28.5%
70-100	261.6	30.2%	30.2%
90-120	253.3	29.2%	29.2%
0-90	428.2	49.4%	49.4%
90-180	438.4	50.6%	50.6%
0-180	866.6	100.1%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2.6	0.3%	90-100	89.8	10.4%
10-20	9.4	1.1%	100-110	85.5	9.9%
20-30	20.6	2.4%	110-120	78.1	9%
30-40	34.9	4.0%	120-130	66.9	7.7%
40-50	50.1	5.8%	130-140	52.4	6%
50-60	63.9	7.4%	140-150	36.2	4.2%
60-70	74.8	8.6%	150-160	20.6	2.4%
70-80	83.1	9.6%	160-170	7.9	0.9%
80-90	88.7	10.2%	170-180	1.2	0.1%



**Illuminance at a Distance**

	Center Beam fc	Beam Width
1.7R	9.24 fc	20.6 ft
3.3R	2.45 fc	39.9 ft
5.0R	1.07 fc	60.5 ft
6.7R	0.59 fc	81.0 ft
8.3R	0.39 fc	100.4 ft
10.0R	0.27 fc	121.0 ft

■ Beam Spread: 161.2°

**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
RCR: 0	1.07	1.07	1.07	1.07	.99	.99	.99	.49	.83	.83	.83	.69	.69	.69	.69	.56	.56	.56	.56	.49	.49
1	.93	.86	.80	.75	.84	.79	.74	.32	.65	.61	.57	.53	.50	.47	.41	.39	.37	.37	.37	.31	.31
2	.82	.72	.64	.57	.75	.66	.59	.23	.54	.49	.44	.43	.39	.35	.33	.30	.27	.27	.27	.22	.22
3	.74	.62	.53	.45	.67	.56	.48	.18	.46	.40	.34	.37	.32	.28	.28	.24	.21	.21	.21	.16	.16

4	.67	.54	.44	.37	.60	.49	.40	.14	.40	.33	.28	.32	.26	.22	.24	.20	.17	.13
5	.61	.47	.38	.31	.55	.43	.34	.11	.35	.28	.23	.28	.23	.18	.21	.17	.14	.10
6	.56	.42	.32	.26	.50	.38	.30	.09	.31	.25	.20	.25	.19	.15	.19	.15	.11	.08
7	.51	.37	.28	.22	.46	.34	.26	.08	.28	.21	.17	.22	.17	.13	.17	.13	.10	.07
8	.47	.34	.25	.19	.43	.31	.23	.07	.25	.19	.14	.20	.15	.11	.15	.11	.08	.06
9	.44	.30	.22	.17	.40	.28	.20	.06	.23	.17	.13	.18	.13	.10	.14	.10	.07	.05
10	.41	.28	.20	.15	.37	.25	.18	.05	.21	.15	.11	.17	.12	.09	.13	.09	.06	.04

**Candela Table - Type C**

	0	15	30	45	60	75	90	105	120	135	150	165	180
0	27	27	27	27	27	27	27	27	27	27	27	27	27
5	28	28	28	28	28	27	28	27	27	26	25	25	25
10	30	29	28	28	28	28	31	31	29	26	24	24	23
15	38	37	36	35	34	34	36	37	34	28	24	22	22
20	49	47	46	45	43	41	43	43	38	30	23	21	21
25	60	58	58	58	53	48	50	48	43	32	23	20	20
30	69	68	71	70	64	55	55	53	45	35	23	17	17
35	78	78	82	82	74	61	61	57	50	36	23	15	15
40	87	87	93	93	85	67	65	60	52	37	22	13	13
45	94	94	102	103	93	73	68	64	54	38	21	12	10
50	101	101	112	113	102	79	72	65	56	39	20	8	8
55	105	107	120	121	109	83	74	67	57	38	19	6	6
60	110	113	125	127	115	87	75	67	57	38	18	4	4
65	114	117	131	132	120	91	77	68	56	37	16	2	2
70	117	121	135	137	124	93	78	68	57	37	16	1	1
75	120	124	138	141	127	95	78	68	57	38	16	1	1
80	121	126	142	144	129	96	79	70	58	38	16	1	1
85	125	128	143	146	132	99	80	71	58	40	17	1	1
90	125	130	145	148	134	100	80	71	58	40	17	1	1
95	126	130	146	148	134	101	81	71	58	39	17	1	1
100	125	129	144	147	134	101	79	70	57	39	17	1	1
105	124	127	142	145	132	99	79	70	57	39	16	1	1
110	121	125	139	142	130	98	78	70	57	39	17	2	1
115	119	122	136	140	127	98	78	69	57	39	17	2	2
120	117	119	133	135	124	95	76	68	56	38	17	3	2
125	113	116	127	131	120	93	74	66	55	37	17	3	3
130	109	110	121	125	114	90	71	63	53	36	17	4	3
135	103	104	114	117	107	84	68	60	49	34	16	4	4
140	97	97	106	108	99	78	63	56	46	31	15	4	4
145	90	90	97	97	89	72	59	52	42	29	13	4	3
150	83	81	85	86	79	64	53	45	38	25	12	4	3
155	73	73	74	74	69	56	45	39	30	21	10	4	1
160	64	63	63	61	57	48	37	29	22	13	5	1	0
165	53	52	50	48	44	38	26	20	12	6	1	0	0
170	42	40	37	34	31	25	15	6	4	1	0	0	0
175	23	22	21	17	15	11	5	1	0	0	0	0	0
180	2	2	2	2	2	2	2	2	2	2	2	2	2

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] LCZP22110058  
[TESTDATE] 2022/11/11  
[TESTLAB] LCTECH 221108104001  
[ISSUE DATE] 2022/11/11  
[MANUFAC] SARIN Energy Solutions  
[LUMINAIRE] LED Wall light  
[\_TOTALLUMINAIRELUMENS] 866.6  
[LUMELE] 120.07 0.107 11.49 0.8943  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 13  
FILE: COORDINATE SYSTEM: TYPE C  
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.