

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** UDWP01B - Up-Down - RGBW - 72W - W - IES

**Manufacturer:** SARIN Energy Solutions

**Lamp Output:** Total Luminaire Lumens: 1549.4

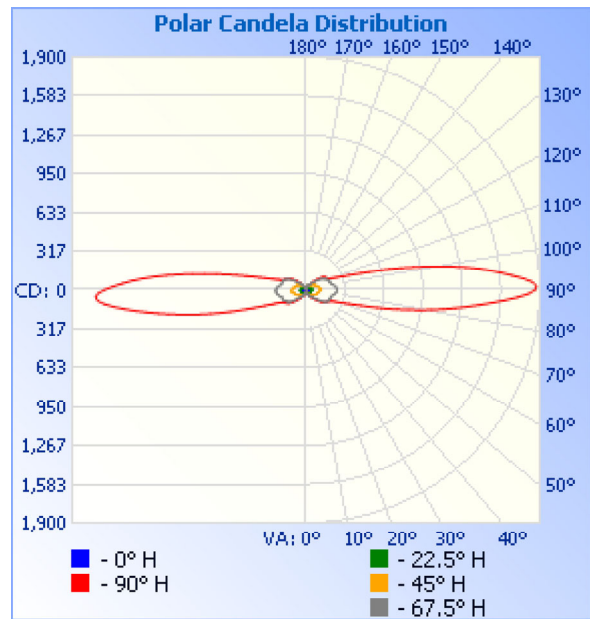
**Max Candela:** 1,872.5 at Horizontal: 90°, Vertical: 91°

**Input Wattage:** 60.0207

**Luminous Opening:** Circular (Dia: 10.63")

**Test Date:** 2025-01-15

**Photometry :** Type C



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	Unclassified, Unclassified	
Max Cd, 90 Deg Vert:	1,860.4	
Max Cd, 80 to <90 Deg:	1,808.5	
	Lumens	% Lamp
Downward Street Side:	407.7	26.3%
Downward House Side:	405.3	26.2%
Downward Total:	813.0	52.5%
Upward Street Side:	370.0	23.9%
Upward House Side:	366.1	23.6%
Upward Total:	736.1	47.5%
Total Lumens:	1,549.2	100%

### Flood Summary

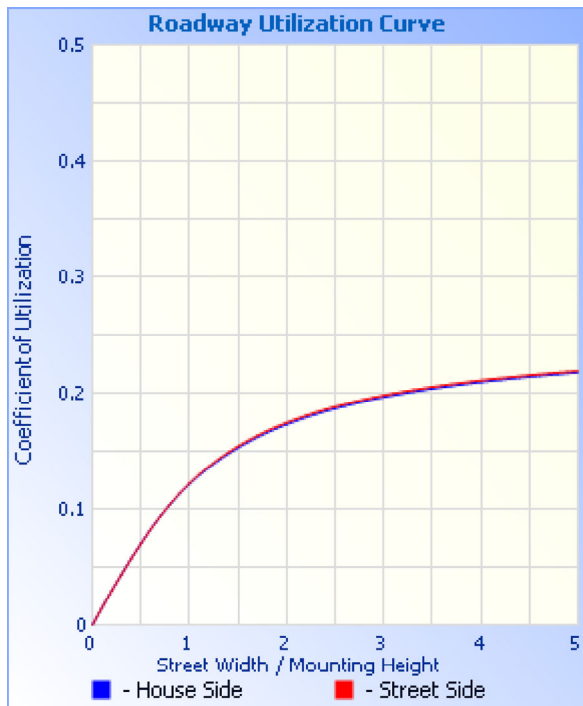
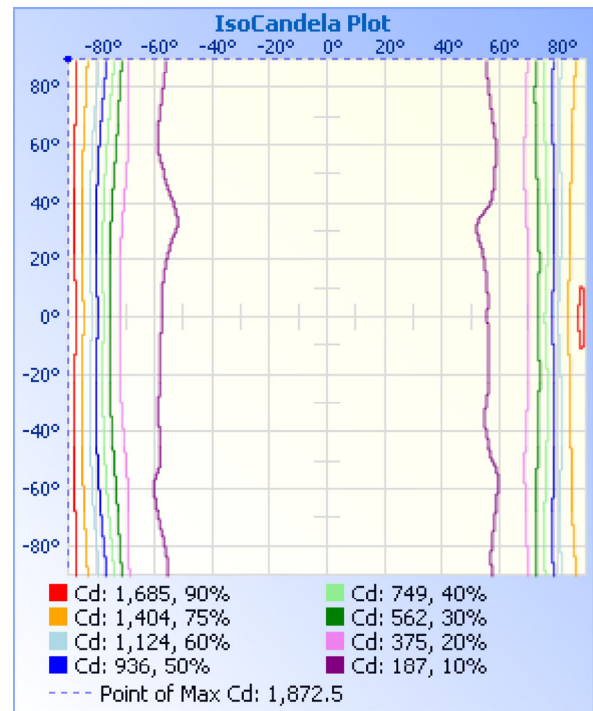
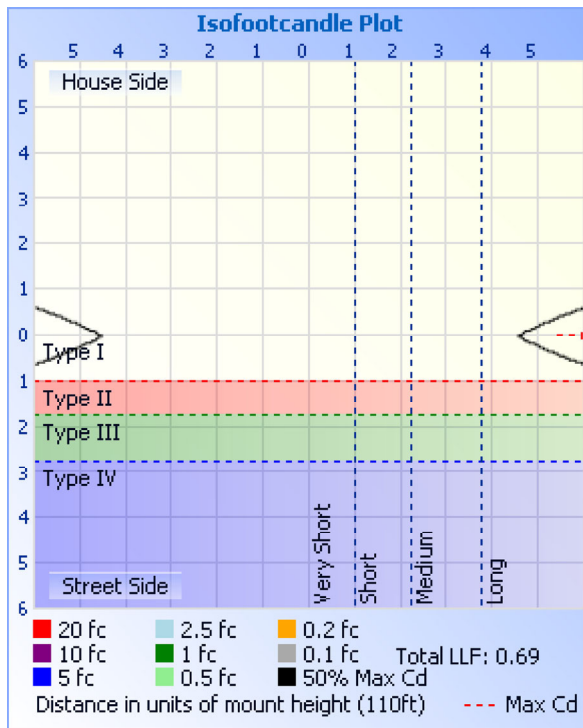
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	54.9%	850.8	30.5	n/a
Beam (50%):	17.2%	267.0	10.6	n/a
Total:	100.3%	1,554.2		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	29.0	1.9%
0-40	60.8	3.9%
0-60	199.1	12.8%
60-90	614.1	39.6%
70-100	802.1	51.8%
90-120	574.7	37.1%
0-90	813.2	52.5%
90-180	736.3	47.5%
0-180	1,549.4	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2.4	0.2%	90-100	302.5	19.5%
10-20	8.5	0.5%	100-110	165.7	10.7%
20-30	18.1	1.2%	110-120	106.5	6.9%
30-40	31.8	2.1%	120-130	75.0	4.8%
40-50	53.1	3.4%	130-140	44.5	2.9%
50-60	85.2	5.5%	140-150	23.5	1.5%
60-70	114.6	7.4%	150-160	12.6	0.8%
70-80	184.4	11.9%	160-170	4.9	0.3%
80-90	315.2	20.3%	170-180	1.0	0.1%



**Illuminance at a Distance**

	Center Beam fc	Beam Width
1.7R	<b>8.71 fc</b>	<b>0.3 ft</b>
3.3R	<b>2.31 fc</b>	<b>0.6 ft</b>
5.0R	<b>1.01 fc</b>	<b>0.9 ft</b>
6.7R	<b>0.56 fc</b>	<b>1.2 ft</b>
8.3R	<b>0.37 fc</b>	<b>1.5 ft</b>
10.0R	<b>0.25 fc</b>	<b>1.9 ft</b>

■ Horiz. Spread: 10.6°

**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	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.08	1.08	1.08	1.08	1.00	1.00	1.00	.52	.85	.85	.85	.71	.71	.71	.58	.58	.58	.52	.52	.52	.52
1	.89	.81	.74	.67	.81	.74	.67	.27	.61	.55	.51	.48	.44	.40	.37	.34	.31	.25	.25	.25	.25
2	.79	.67	.57	.49	.71	.61	.52	.17	.49	.42	.37	.39	.33	.29	.29	.25	.21	.16	.16	.16	.16
3	.70	.57	.47	.38	.63	.52	.42	.12	.42	.34	.28	.32	.27	.22	.24	.19	.16	.11	.11	.11	.11

4	.64	.49	.39	.31	.57	.45	.35	.09	.36	.29	.23	.28	.22	.17	.21	.16	.12	.08
5	.58	.43	.33	.26	.52	.39	.30	.08	.32	.24	.19	.25	.19	.14	.18	.13	.10	.06
6	.53	.38	.29	.22	.48	.35	.26	.06	.28	.21	.16	.22	.16	.12	.16	.12	.08	.05
7	.49	.34	.25	.18	.44	.31	.23	.05	.25	.18	.13	.20	.14	.10	.15	.10	.07	.04
8	.45	.31	.22	.16	.41	.28	.20	.04	.23	.16	.11	.18	.13	.09	.13	.09	.06	.03
9	.42	.28	.20	.14	.38	.26	.18	.04	.21	.15	.10	.17	.11	.08	.12	.08	.05	.03
10	.39	.26	.18	.12	.36	.23	.16	.03	.19	.13	.09	.15	.10	.07	.11	.07	.04	.02

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
5	25	25	25	25	25	25	25	25	25	25	25	25	26	25	25	25	25
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7	25	25	25	25	25	25	25	25	25	25	25	26	27	26	26	25	25
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10	25	25	25	27	27	26	25	25	25	25	26	28	30	29	27	25	25
11	25	25	26	27	28	27	26	25	25	25	27	29	31	30	27	25	25
12	25	25	26	28	29	28	26	25	25	25	27	30	32	31	28	25	25
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16	25	25	28	33	34	33	28	25	25	26	30	35	39	36	31	26	25
17	25	25	29	34	36	34	29	25	25	26	31	37	40	38	32	26	25
18	25	25	30	36	37	36	30	25	25	26	32	38	42	39	33	26	25
19	25	25	31	37	39	37	31	26	25	26	33	40	44	41	34	27	25
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103	24	44	100	212	791	210	104	45	24	42	97	204	502	199	100	44	24
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125	23	27	67	152	176	155	68	29	22	27	66	137	155	140	65	27	23
126	23	26	66	146	173	148	66	28	22	25	65	128	148	133	64	26	23
127	23	26	65	140	167	140	65	28	22	24	64	120	141	125	63	25	23
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138	23	33	47	74	86	73	51	32	22	29	49	66	74	67	47	31	23
139	23	32	46	71	77	69	49	31	22	29	46	63	70	64	45	31	23
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141	23	32	44	64	58	63	45	30	22	28	41	58	58	59	42	30	23
142	23	31	43	61	50	60	44	30	22	28	39	55	50	57	40	29	23
143	23	31	42	58	44	57	42	29	22	27	37	53	43	55	39	29	23
144	23	31	41	56	39	54	41	29	22	27	36	50	37	52	38	28	23

145	23	30	40	53	37	51	40	28	22	26	34	47	33	50	37	28	23
146	23	30	41	51	35	48	39	27	22	26	33	44	31	48	36	27	23
147	23	30	43	49	33	45	37	26	22	26	32	41	29	46	34	27	23
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157	23	26	35	40	21	19	30	23	20	21	28	16	18	33	31	22	23
158	23	25	34	38	20	17	28	22	20	21	26	15	17	33	29	22	23
159	23	25	33	37	19	15	27	22	20	20	24	13	16	32	28	22	23
160	23	25	32	34	18	15	25	22	20	19	22	12	15	30	27	21	23
161	23	25	30	30	17	13	23	21	20	18	21	11	14	28	26	21	23
162	23	24	29	26	16	11	21	20	20	17	19	11	14	26	24	21	23
163	23	24	26	23	15	10	18	19	19	16	17	10	12	24	24	21	23
164	23	24	23	21	15	9	15	17	18	15	16	10	10	22	23	21	23
165	23	24	21	19	14	9	12	16	17	14	14	9	9	20	22	21	23
166	23	23	18	17	13	8	10	15	16	13	12	8	8	18	21	21	23
167	22	22	16	16	12	8	9	14	15	12	11	8	7	16	20	20	22
168	22	20	14	14	11	8	8	12	14	12	10	7	6	15	19	20	22
169	22	19	13	13	10	8	7	10	13	11	9	6	5	14	18	20	22
170	22	17	12	12	10	7	7	8	12	10	9	6	5	13	17	20	22
171	21	16	11	11	9	7	7	6	11	10	8	6	5	12	17	20	21
172	20	14	10	10	8	7	7	6	10	11	8	6	5	12	16	19	20
173	19	12	10	9	8	7	7	6	10	11	9	5	6	12	16	18	19
174	18	10	9	9	9	7	7	6	10	11	10	5	7	13	16	18	18
175	16	9	9	8	11	8	7	6	9	10	12	6	11	14	15	17	16
176	14	9	8	8	14	11	8	6	7	9	12	10	13	14	15	16	14
177	12	8	8	11	14	13	11	7	7	9	12	11	13	13	14	16	12
178	10	8	8	12	13	13	12	8	7	8	12	11	13	13	14	15	10
179	8	7	10	12	13	13	12	11	7	8	13	11	13	13	13	14	8
180	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

**Luminaire Report Summary**

IESNA:LM-63-2002

[TEST]

[TESTDATE] 2025-01-15

[TESTLAB]

[ISSUEDATE] 2025-01-16 02:44:14

[MANUFAC] SARIN Energy Solutions

[\_LAMPPOSITION] 0,0

[\_TOTALLUMINAIRELUMENS] 1549.4

[OTHER] EVERFINE GO-2000A\_V1 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 2.44  
2.44 0.16 0.1610- 20 8.47 10.91 0.70 0.7020- 30 18.10 29.01 1.85 1.8530- 40 31.86  
60.88 3.88 3.8840- 50 53.33 114.20 7.27 7.2750- 60 85.59 199.79 12.72 12.7260- 70  
115.17 314.96 20.06 20.0670- 80 187.03 502.00 31.97 31.9780- 90 322.13 824.13  
52.49 52.4990-100 309.11 1133.24 72.18 72.18100-110 167.78 1301.02 82.86 82.86110-  
120 107.02 1408.03 89.68 89.68120-130 75.35 1483.39 94.48 94.48130-140 44.68  
1528.07 97.32 97.32140-150 23.51 1551.58 98.82 98.82150-160 12.63 1564.20 99.62  
99.62160-170 4.88 1569.09 99.93 99.93170-180 1.03 1570.12 100.00 100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY

FILE: CANDELA MULTIPLIER: 1

FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17

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.