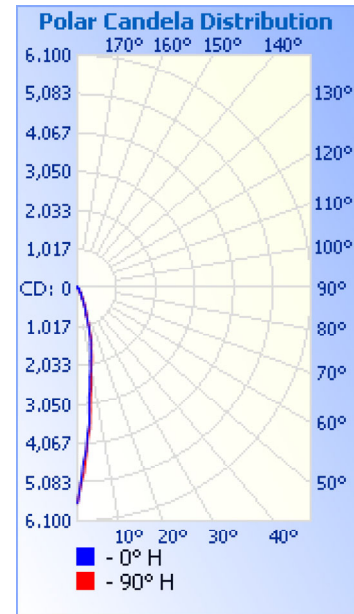


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** WN-FL01-RD03 36W 15° - RGB all on  
**Manufacturer:** SARIN Energy  
**Luminaire Cat:** 36W 12  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 1207.6  
**Max Candela:** 6,082.8 at Horizontal: 180°, Vertical: 3°  
**Input Wattage:** 32.93  
**Luminous Opening:** Point  
**Test Date:** 2019-05-07  
**Photometry :** Type C  
**Nema Type:** 4 X 3

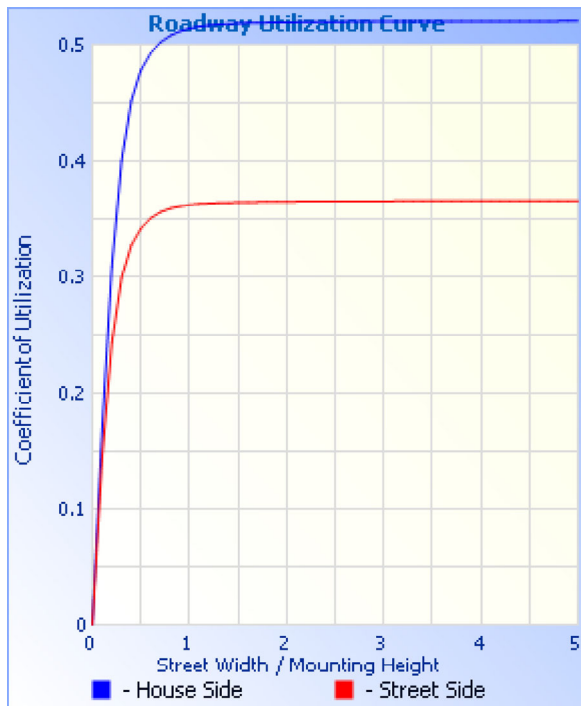
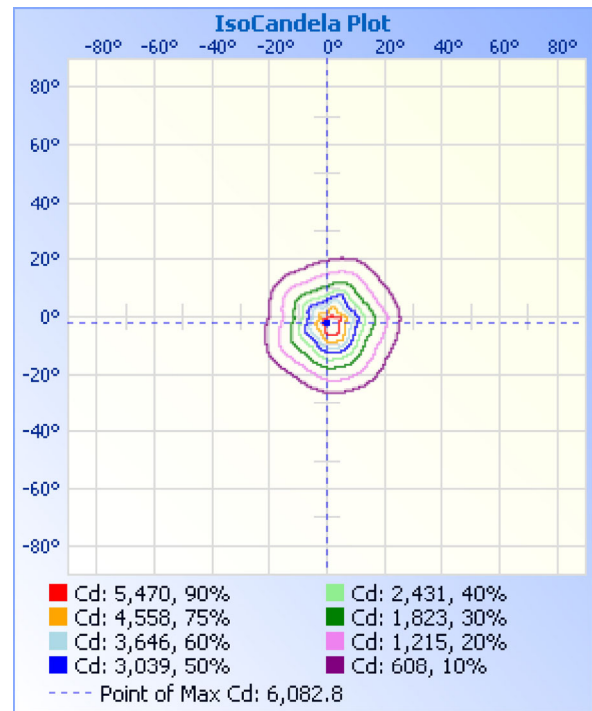
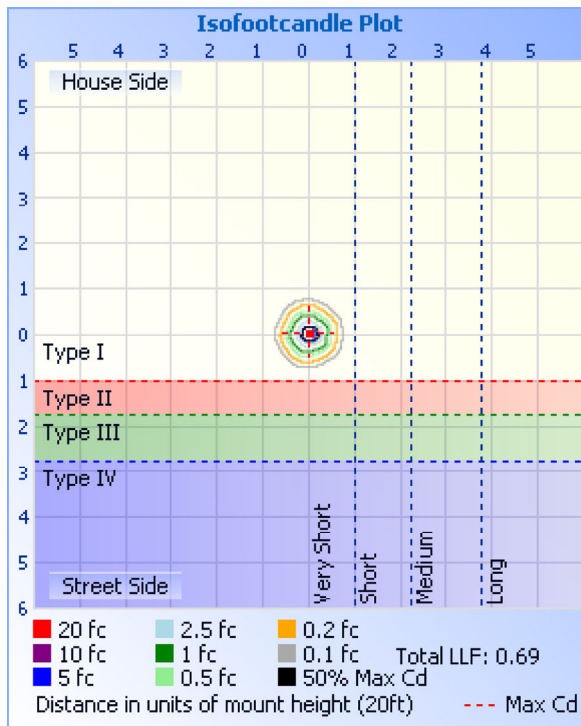


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	0.6	
Max Cd, 80 to <90 Deg:	1.4	
	Lumens % Lamp	
Downward Street Side:	499.7	41.4%
Downward House Side:	707.9	58.6%
Downward Total:	1,207.6	100%
Total Lumens:	1,207.6	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	78.5%	947.8	46.2	46
Beam (50%):	28.3%	342.3	17.7	18.5
Total:	100.2%	1,209.7		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,069.6	88.6%	88.7%
0-40	1,153.7	95.5%	95.6%
0-60	1,199.3	99.3%	99.4%
60-90	7.0	0.6%	0.6%
0-90	1,206.3	99.9%	100%

Lumens Per Zone		
Zone	Lumens	% Total
0-10	370.2	30.7%
10-20	471.0	39.0%
20-30	228.5	18.9%
30-40	84.0	7.0%
40-50	34.5	2.9%
50-60	11.1	0.9%
60-70	4.3	0.4%
70-80	1.9	0.2%
80-90	0.8	0.1%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
2.5R	906 fc	0.8 ft	0.8 ft
5.0R	227 fc	1.6 ft	1.6 ft
7.5R	101 fc	2.4 ft	2.3 ft
10.0R	56.6 fc	3.3 ft	3.1 ft
12.5R	36.2 fc	4.1 ft	3.9 ft
15.0R	25.2 fc	4.9 ft	4.7 ft

■ Vert. Spread: 18.5°  
 ■ Horiz. Spread: 17.7°

**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	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.12	1.10	1.08	1.12	1.10	1.08	.96	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	.92	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3	1.06	1.01	.97	.94	1.04	1.00	.96	.88	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88

4	1.02	.96	.92	.89	1.01	.95	.91	.85	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5	.99	.92	.88	.84	.97	.91	.87	.82	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6	.96	.89	.84	.81	.94	.88	.84	.79	.87	.83	.80	.85	.82	.79	.84	.81	.79	.78
7	.92	.85	.81	.77	.91	.85	.80	.76	.84	.80	.77	.83	.79	.77	.81	.78	.76	.75
8	.90	.82	.78	.75	.89	.82	.77	.73	.81	.77	.74	.80	.76	.74	.79	.76	.74	.72
9	.87	.79	.75	.72	.86	.79	.75	.71	.78	.74	.72	.77	.74	.71	.77	.73	.71	.70
10	.84	.77	.72	.70	.83	.76	.72	.69	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68

Candela Table - Type C													
	0	30	60	90	120	150	180	210	240	270	300	330	360
0	5663	5663	5663	5663	5663	5663	5663	5663	5663	5663	5663	5663	5663
1	5092	4828	5525	5150	5793	5818	5883	5729	5893	5718	5339	5843	5092
2	4534	4016	5293	4871	5700	5697	6072	5875	5886	5836	5117	5478	4534
3	4291	3791	4981	4377	5300	5382	6083	5976	5693	5725	4892	5006	4291
4	3808	3576	4420	3923	4999	4931	5983	5879	5589	5575	4456	4770	3808
5	3576	3155	4170	3701	4492	4674	5926	5843	5260	5121	4016	4327	3576
6	2875	2943	3687	3218	4245	4223	5704	5761	4713	4552	3769	4116	2875
7	2678	2382	3232	2819	3758	4002	5139	5611	4427	4266	3271	3605	2678
8	2341	2229	2820	2643	3345	3501	4795	5028	3737	3780	2843	3372	2341
9	2192	2087	2638	2337	3148	3034	4191	4753	3502	3601	2656	3122	2192
10	1955	1847	2312	2081	2756	2840	3926	4188	2968	3186	2356	2542	1955
11	1852	1676	2057	1975	2592	2494	3459	3655	2789	2997	2215	2378	1852
12	1674	1602	1943	1787	2320	2233	3020	3415	2438	2667	1953	2097	1674
13	1512	1449	1737	1613	2094	2123	2816	2920	2312	2370	1750	1971	1512
14	1433	1274	1654	1537	1988	1919	2478	2701	2039	2237	1660	1753	1433
15	1253	1085	1496	1347	1808	1749	2332	2354	1811	2002	1509	1605	1253
16	1062	897	1410	1154	1734	1681	2053	2090	1725	1889	1422	1531	1062
17	892	733	1226	1056	1574	1520	1829	1979	1575	1692	1241	1365	892
18	730	733	1031	729	1499	1317	1753	1784	1422	1548	1047	1179	730
19	670	616	1031	729	1300	1195	1627	1627	1339	1474	737	1083	670
20	607	505	769	641	1096	902	1444	1548	1145	1304	737	884	607
21	493	457	633	580	1096	731	1344	1384	1048	1206	719	804	493
22	448	377	570	478	813	731	1146	1187	736	1206	595	665	448
23	372	345	467	435	726	604	1048	1085	736	832	490	544	372
24	311	290	446	362	594	492	858	899	632	747	444	448	311
25	286	268	359	304	482	445	697	814	520	606	368	448	286
26	245	231	307	280	443	403	568	664	472	496	336	342	245
27	227	200	261	240	366	337	515	542	388	450	284	287	227
28	194	185	242	207	309	281	443	444	354	444	263	264	194
29	180	161	207	193	285	238	355	444	296	312	226	225	180
30	157	150	180	169	241	219	355	332	273	286	195	209	157
31	129	131	169	159	222	204	275	305	231	239	182	182	129
32	129	116	148	131	192	178	253	258	197	221	159	160	129
33	113	108	140	131	168	157	216	238	183	193	140	150	113
34	105	87	124	116	149	148	198	204	158	170	131	131	105
35	91	87	109	103	140	132	186	177	148	150	114	123	91
36	74	73	102	90	125	124	152	165	131	141	87	107	74
37	74	65	102	73	111	110	143	146	116	124	87	107	74
38	65	61	83	73	105	103	127	138	110	117	73	85	65
39	61	53	72	67	105	91	120	122	87	102	70	74	61
40	52	49	61	57	87	73	106	108	87	102	66	70	52
41	45	42	56	49	76	73	106	101	73	83	57	62	45
42	41	36	52	45	71	66	88	88	71	73	49	58	41
43	35	33	45	38	61	57	78	83	62	69	45	50	35
44	30	26	38	32	53	53	73	73	58	60	40	45	30
45	28	24	35	30	49	45	64	65	50	56	37	45	28
46	24	22	29	25	45	38	56	60	43	48	31	35	24

47	20	19	25	21	34	35	52	52	39	44	27	32	20
48	19	16	23	20	32	29	44	48	33	38	25	27	19
49	16	14	20	17	27	25	44	45	27	33	21	23	16
50	13	12	19	15	25	23	34	35	25	30	18	21	13
51	12	10	16	13	21	19	28	32	22	26	17	18	12
52	10	9	13	12	20	17	26	27	20	22	14	16	10
53	9	8	12	10	17	16	23	23	17	20	13	15	9
54	8	7	10	8	15	13	19	21	14	17	11	13	8
55	7	7	9	8	13	12	18	18	13	16	10	13	7
56	7	6	8	7	11	10	15	15	11	14	8	10	7
57	6	5	7	6	10	8	13	14	10	12	8	8	6
58	5	5	6	5	9	8	12	12	9	11	6	7	5
59	5	5	6	5	8	7	10	10	8	9	6	7	5
60	5	4	5	5	7	6	8	9	7	8	6	6	5
61	4	4	5	4	6	6	8	8	6	7	5	6	4
62	4	4	5	4	6	5	7	8	6	6	5	6	4
63	4	4	4	4	6	5	6	7	5	6	5	5	4
64	4	3	4	4	5	5	6	6	5	6	4	5	4
65	3	3	4	3	5	4	5	6	5	5	4	4	3
66	3	3	3	3	4	4	5	5	4	5	4	4	3
67	3	3	3	3	4	4	4	5	4	4	3	4	3
68	3	2	3	2	4	3	4	4	4	4	3	4	3
69	2	2	3	2	4	3	4	4	4	4	3	3	2
70	2	2	2	2	3	3	3	4	3	4	3	3	2
71	2	2	2	2	3	3	3	3	3	3	2	3	2
72	2	2	2	1	3	2	3	3	3	3	2	3	2
73	2	1	2	1	2	2	3	3	2	3	2	2	2
74	1	1	2	1	2	2	2	3	2	3	2	2	1
75	1	1	1	1	2	2	2	2	2	2	2	2	1
76	1	1	1	1	2	1	2	2	2	2	1	2	1
77	1	1	1	1	2	1	2	2	2	2	1	2	1
78	1	1	1	1	1	1	1	2	2	2	1	1	1
79	1	1	1	1	1	1	1	2	1	2	1	1	1
80	1	1	1	1	1	1	1	1	1	1	1	1	1
81	1	1	1	1	1	1	1	1	1	1	1	1	1
82	1	1	1	1	1	1	1	1	1	1	1	1	1
83	1	1	1	1	1	1	1	1	1	1	1	1	1
84	1	1	1	1	1	1	1	1	1	1	1	1	1
85	1	1	1	1	1	1	1	1	1	1	1	1	1
86	1	1	1	1	1	0	1	1	1	1	1	1	1
87	1	1	1	1	1	0	1	1	1	1	1	1	1
88	1	1	1	1	1	0	1	1	1	1	1	1	1
89	1	1	1	1	1	0	1	1	1	1	1	1	1
90	1	1	1	1	0	0	1	1	1	1	1	1	1

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2019-05-07  
[TESTLAB]  
[ISSUE DATE]  
[MANUFAC] SARIN Energy  
[LUMCAT] 36W 12  
[\_TOTALLUMINAIRELUMENS] 1206.3  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 91, HORIZONTAL ANGLES: 13  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

Photometrics Pro 1.3.29 copyright 2003-2022 by jSolutions, Inc.  
Reported data calculated from manufacturer's data file, based on IES recommended methods.