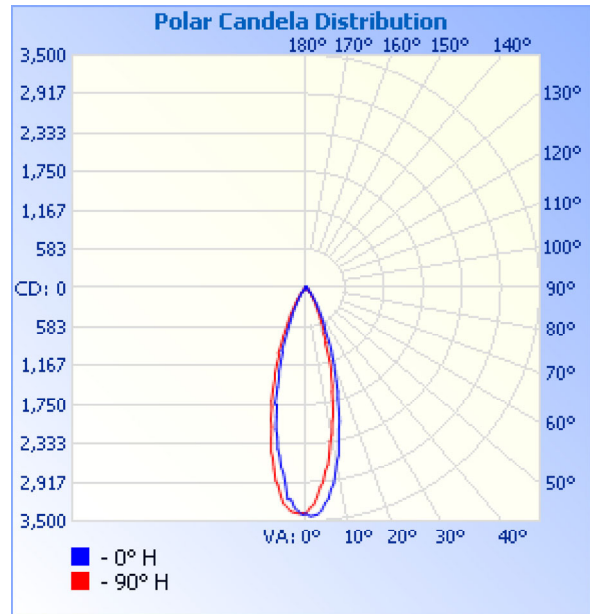


Photometrics Pro

Luminaire Photometric Report

Filename: FL01- RGBW Flood - 36W - 90° - IES
Manufacturer: SARIN Energy Solutions
Luminaire Cat: 36W 90
Lamp Output: 1 lamp, rated Lumens/lamp: 1266.8
Max Candela: 3,425.9 at Horizontal: 0°, Vertical: 1°
Input Wattage: 32.9
Luminous Opening: Point
Test Date: 2019-05-07
Photometry : Type C
Nema Type: 4 X 4

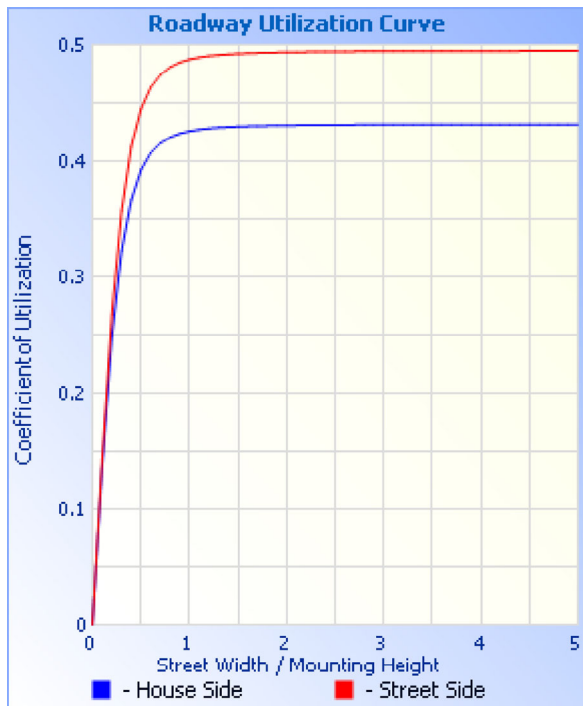
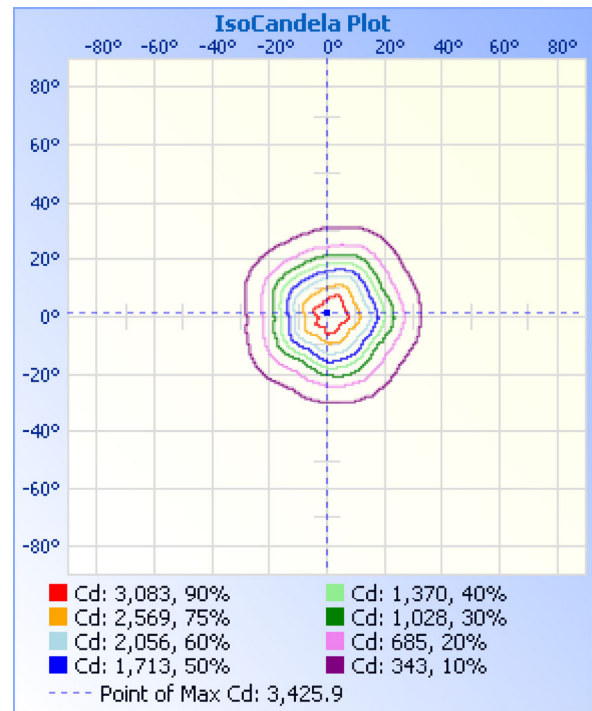
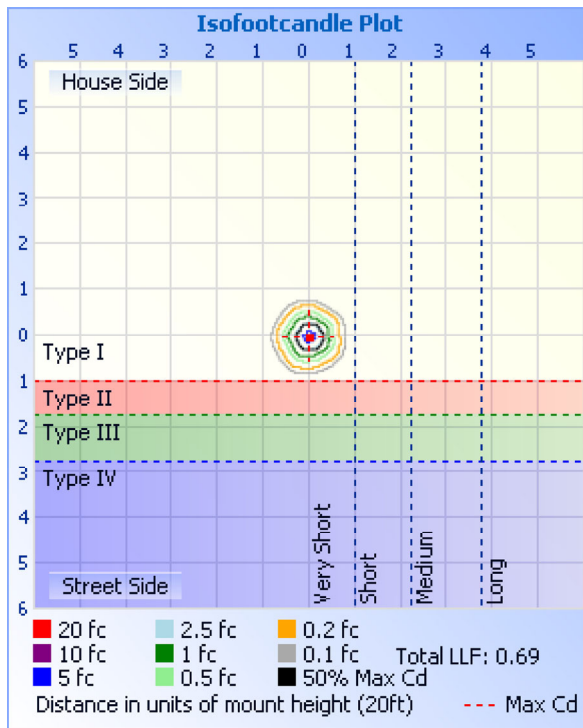


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	0.6	
Max Cd, 80 to <90 Deg:	1.7	
	Lumens % Lamp	
Downward Street Side:	677.1	53.4%
Downward House Side:	589.8	46.6%
Downward Total:	1,266.8	100%
Total Lumens:	1,266.8	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	85.2%	1,078.8	60.6	61
Beam (50%):	44%	557.3	31	31.3
Total:	100.1%	1,268.2		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,065.7	84.1%	84.2%
0-40	1,194.2	94.3%	94.3%
0-60	1,256.1	99.2%	99.2%
60-90	9.9	0.8%	0.8%
0-90	1,266.1	99.9%	100%

Lumens Per Zone		
Zone	Lumens	% Total
0-10	278.1	22.0%
10-20	484.0	38.2%
20-30	303.6	24.0%
30-40	128.4	10.1%
40-50	46.0	3.6%
50-60	15.9	1.3%
60-70	6.7	0.5%
70-80	2.4	0.2%
80-90	0.9	0.1%



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7R	1,172 fc	1.0 ft	0.9 ft
3.3R	311 fc	1.9 ft	1.8 ft
5.0R	135 fc	2.8 ft	2.8 ft
6.7R	75.4 fc	3.8 ft	3.7 ft
8.3R	49.1 fc	4.7 ft	4.6 ft
10.0R	33.9 fc	5.6 ft	5.5 ft

Vert. Spread: 31.3°
Horiz. Spread: 31.0°

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	1.09	1.07	1.12	1.10	1.08	.95	1.05	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2	1.09	1.05	1.02	.99	1.07	1.03	1.00	.90	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3	1.05	.99	.95	.92	1.03	.98	.94	.86	.95	.92	.89	.93	.90	.88	.91	.89	.87	.85

4	1.01	.94	.89	.86	.99	.93	.89	.82	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81
5	.97	.89	.84	.81	.95	.89	.84	.78	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6	.93	.85	.80	.76	.91	.84	.80	.75	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
7	.89	.81	.76	.73	.88	.81	.76	.71	.80	.75	.72	.78	.75	.72	.77	.74	.71	.70
8	.86	.78	.73	.69	.85	.77	.73	.68	.76	.72	.69	.75	.72	.69	.75	.71	.68	.67
9	.83	.75	.70	.66	.82	.74	.70	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.65
10	.80	.72	.67	.64	.79	.71	.67	.63	.71	.66	.63	.70	.66	.63	.69	.66	.63	.62

Candela Table - Type C													
	0	30	60	90	120	150	180	210	240	270	300	330	360
0	3386	3386	3386	3386	3386	3386	3386	3386	3386	3386	3386	3386	3386
1	3426	3353	3372	3301	3389	3294	3404	3365	3336	3375	3405	3396	3426
2	3416	3331	3364	3256	3343	3174	3349	3353	3307	3386	3401	3417	3416
3	3401	3256	3324	3140	3301	3105	3304	3304	3213	3373	3376	3418	3401
4	3341	3204	3291	3000	3194	2956	3185	3213	3166	3357	3309	3411	3341
5	3245	3077	3197	2924	3058	2876	3185	3154	3040	3296	3257	3379	3245
6	3183	2934	3069	2759	2982	2713	2957	3022	2886	3251	3132	3348	3183
7	3044	2858	2999	2677	2828	2628	2794	2876	2811	3136	2985	3251	3044
8	2969	2697	2847	2504	2746	2450	2710	2798	2650	2997	2901	3187	2969
9	2809	2616	2686	2319	2577	2265	2536	2638	2480	2923	2742	3037	2809
10	2640	2440	2601	2226	2397	2171	2445	2464	2390	2765	2658	2882	2640
11	2550	2348	2425	2041	2295	1974	2261	2375	2207	2601	2484	2801	2550
12	2360	2163	2241	1950	2108	1793	2167	2193	2115	2513	2296	2633	2360
13	2173	1981	2149	1773	1924	1705	1980	2011	1934	2330	2111	2544	2173
14	2068	1892	1967	1601	1834	1535	1802	1922	1845	2135	2018	2360	2068
15	1888	1718	1781	1520	1661	1371	1802	1749	1673	2044	1928	2174	1888
16	1713	1634	1708	1359	1577	1292	1547	1664	1588	1866	1753	2080	1713
17	1627	1472	1531	1282	1412	1144	1385	1500	1348	1779	1583	1900	1627
18	1463	1313	1449	1135	1255	880	1306	1342	1271	1611	1501	1725	1463
19	1306	1237	1294	876	1108	880	1156	1256	1196	1447	1343	1641	1306
20	1228	1093	1146	876	1040	735	1018	1111	863	1367	1189	1475	1228
21	1086	1016	1076	733	912	716	1018	1042	863	1217	1119	1317	1086
22	1017	735	1008	714	852	667	834	913	863	1072	859	1240	1017
23	887	735	885	666	744	577	728	854	733	1072	859	1094	887
24	733	722	773	577	647	498	672	742	647	880	736	1026	733
25	671	627	672	494	602	463	581	644	603	822	699	896	671
26	625	542	626	458	520	398	502	599	522	717	608	780	625
27	581	504	542	396	449	369	466	518	451	623	566	722	581
28	501	435	504	342	445	318	445	481	418	579	484	678	501
29	432	375	446	317	360	292	373	446	360	501	418	541	432
30	401	348	446	273	360	232	321	358	310	466	388	503	401
31	345	279	349	253	286	215	276	332	288	444	359	445	345
32	320	258	300	218	265	200	256	286	247	343	309	445	320
33	273	240	278	188	228	171	220	265	230	318	266	374	273
34	237	206	237	174	196	159	204	227	197	273	246	298	237
35	218	177	220	149	182	136	175	195	169	253	211	276	218
36	187	164	190	139	156	126	150	179	157	217	195	238	187
37	161	141	163	119	145	74	139	155	135	201	167	220	161
38	138	131	151	102	124	74	119	132	125	173	144	189	138
39	128	111	129	88	107	74	110	122	107	148	133	175	128
40	119	103	120	73	107	73	102	105	74	137	114	150	119
41	102	89	103	73	84	62	87	90	74	118	105	129	102
42	87	73	89	64	78	58	75	84	72	101	90	120	87
43	74	70	76	55	67	49	63	72	66	101	73	103	74
44	69	60	70	50	57	46	58	61	56	80	71	103	69
45	64	55	60	42	53	39	50	57	52	74	60	82	64
46	54	47	51	39	45	33	46	48	44	64	56	69	54

47	46	40	48	33	39	31	45	45	38	54	44	64	46
48	43	37	44	31	36	26	34	39	35	46	40	55	43
49	37	32	35	27	30	22	31	33	30	45	37	51	37
50	31	30	32	23	28	21	27	31	28	37	32	45	31
51	29	25	28	20	24	18	23	26	24	31	27	37	29
52	25	22	26	19	21	16	22	25	19	29	25	32	25
53	21	21	23	16	20	15	19	21	18	25	22	30	21
54	20	17	20	15	17	13	17	19	17	23	19	26	20
55	17	17	18	14	15	12	16	18	15	20	18	22	17
56	16	14	16	12	14	11	14	16	14	18	16	21	16
57	15	13	15	12	13	10	13	15	13	17	14	18	15
58	13	13	14	10	12	9	12	13	11	15	13	16	13
59	12	11	13	9	11	8	11	12	11	14	12	15	12
60	11	10	12	9	10	7	9	11	9	13	11	14	11
61	10	9	10	8	9	7	9	10	8	11	10	13	10
62	9	8	10	7	8	6	8	9	8	11	9	11	9
63	9	7	9	6	7	6	7	8	7	10	8	10	9
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65	7	6	7	5	6	5	6	7	6	8	7	9	7
66	6	5	6	5	6	4	5	6	5	8	6	8	6
67	6	5	6	4	5	4	5	6	5	7	5	8	6
68	5	4	5	4	4	3	5	5	4	6	5	7	5
69	5	4	5	3	4	3	4	5	4	6	4	6	5
70	4	4	4	3	4	3	4	4	3	5	4	5	4
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73	3	3	3	2	2	2	3	3	2	3	3	4	3
74	3	2	3	2	2	2	2	3	2	3	2	4	3
75	2	2	3	2	2	1	2	2	2	3	2	3	2
76	2	2	2	1	2	1	2	2	2	2	2	3	2
77	2	2	2	1	2	1	2	2	1	2	2	2	2
78	1	1	2	1	1	1	1	2	1	2	2	2	1
79	1	1	2	1	1	1	1	1	1	2	1	2	1
80	1	1	1	1	1	1	1	1	1	2	1	2	1
81	1	1	1	1	1	1	1	1	1	1	1	2	1
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88	1	1	1	1	1	1	1	1	1	1	1	1	1
89	1	1	1	1	1	1	1	1	1	1	1	1	1
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2019-05-07
[TESTLAB]
[ISSUE DATE]
[MANUFAC] SARIN Energy Solutions
[LUMCAT] 36W 90
[_TOTALLUMINAIRELUMENS] 1266.1
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 91, HORIZONTAL ANGLES: 13
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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