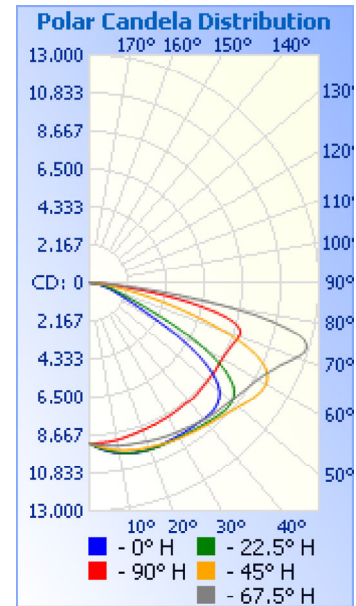


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 300W T3 - 200V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-300-T3-200V
Lamp Output: 1 lamp, rated Lumens/lamp: 36705.7
Max Candela: 12,847.1 at Horizontal: 67.5°, Vertical: 73°
Input Wattage: 291.64
Luminous Opening: Point
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	68.0	
Max Cd, 80 to <90 Deg:	9,258.4	
	Lumens	% Lamp
Downward Street Side:	23,215.7	63.2%
Downward House Side:	13,404.0	36.5%
Downward Total:	36,619.7	99.8%
Upward Street Side:	36.4	0.1%
Upward House Side:	49.6	0.1%
Upward Total:	86.0	0.2%
Total Lumens:	36,705.8	100%

Flood Summary

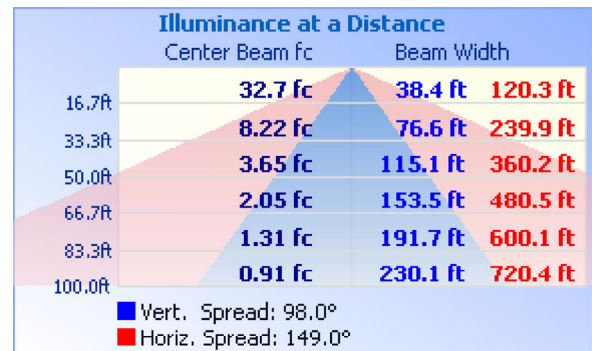
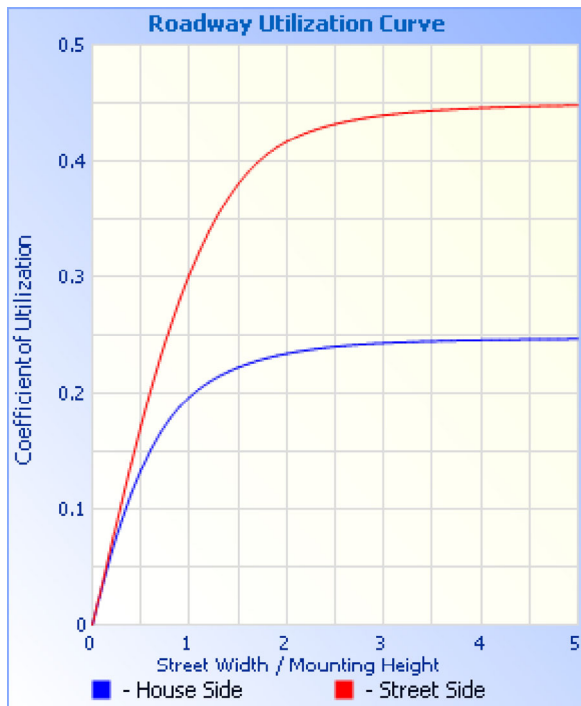
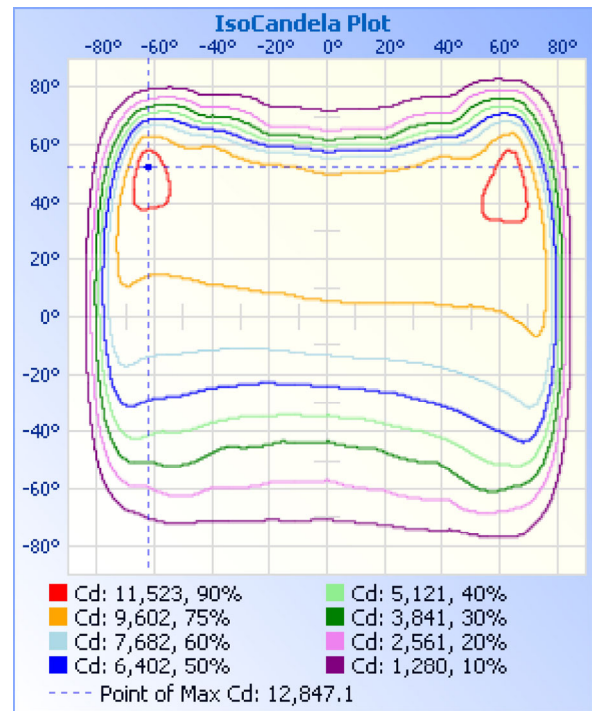
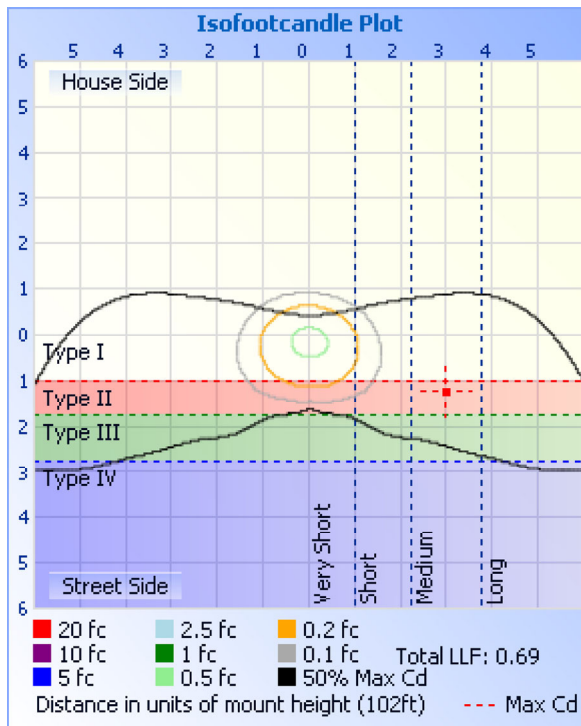
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.2%	36,050.6	163.8	149.5
Beam (50%):	77.3%	28,376.0	149	98
Total:	100%	36,687.8		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	7,349.7	20%	20%
0-40	12,539.5	34.2%	34.2%
0-60	25,332.0	69%	69%
60-90	11,285.8	30.7%	30.7%
70-100	5,326.4	14.5%	14.5%
90-120	52.5	0.1%	0.1%
0-90	36,617.7	99.8%	99.8%
90-180	86.0	0.2%	0.2%
0-180	36,703.8	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	866.3	2.4%	90-100	22.6	0.1%
10-20	2,516.5	6.9%	100-110	16.2	0%
20-30	3,966.9	10.8%	110-120	13.7	0%
30-40	5,189.9	14.1%	120-130	10.0	0%
40-50	6,158.3	16.8%	130-140	7.8	0%
50-60	6,634.1	18.1%	140-150	6.4	0%
60-70	5,982.0	16.3%	150-160	5.1	0%
70-80	4,335.7	11.8%	160-170	3.2	0%
80-90	968.0	2.6%	170-180	1.0	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	1.07	1.01	.96	.92	1.04	.99	.94	.81	.95	.91	.87	.91	.88	.85	.87	.84	.82	.80
2	.96	.86	.78	.72	.93	.84	.77	.65	.81	.75	.69	.77	.72	.68	.74	.70	.66	.64
3	.86	.74	.65	.58	.84	.73	.64	.54	.70	.62	.56	.67	.60	.55	.64	.59	.54	.52

4	.78	.65	.55	.48	.76	.63	.54	.45	.61	.53	.47	.58	.51	.46	.56	.50	.45	.43
5	.71	.57	.47	.40	.69	.56	.47	.38	.54	.46	.39	.52	.45	.39	.50	.43	.38	.36
6	.66	.51	.41	.34	.64	.50	.41	.33	.48	.40	.34	.46	.39	.33	.45	.38	.33	.31
7	.61	.46	.37	.30	.59	.45	.36	.29	.43	.35	.29	.42	.35	.29	.40	.34	.29	.27
8	.56	.42	.33	.26	.54	.41	.32	.25	.40	.32	.26	.38	.31	.26	.37	.30	.26	.24
9	.52	.38	.29	.23	.51	.37	.29	.23	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10	.49	.35	.27	.21	.48	.34	.26	.21	.33	.26	.21	.32	.26	.21	.31	.25	.21	.19

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	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114	9114
1	9202	9191	9172	9147	9112	9071	9043	9014	9019	9029	9053	9090	9120	9154	9188	9199	9202
2	9296	9282	9234	9178	9110	9030	8969	8922	8925	8944	8995	9062	9135	9198	9257	9279	9296
3	9378	9359	9293	9209	9106	8984	8896	8825	8818	8854	8922	9033	9145	9243	9326	9360	9378
4	9457	9431	9357	9240	9102	8943	8822	8730	8712	8759	8860	9009	9156	9287	9390	9433	9457
5	9530	9499	9416	9269	9102	8903	8739	8626	8593	8669	8799	8982	9166	9336	9457	9504	9530
6	9596	9566	9463	9298	9098	8859	8654	8523	8484	8562	8735	8952	9183	9375	9520	9577	9596
7	9657	9631	9520	9321	9095	8808	8573	8409	8374	8468	8661	8924	9188	9412	9573	9639	9657
8	9716	9685	9562	9339	9080	8756	8492	8302	8260	8370	8590	8894	9189	9448	9638	9698	9716
9	9763	9744	9602	9360	9070	8704	8399	8190	8145	8266	8522	8860	9193	9484	9688	9756	9763
10	9819	9795	9642	9380	9054	8643	8309	8082	8014	8165	8446	8825	9197	9520	9734	9807	9819
11	9857	9834	9683	9403	9040	8582	8218	7968	7897	8049	8371	8787	9196	9547	9777	9852	9857
12	9895	9869	9715	9418	9022	8527	8115	7860	7783	7948	8288	8747	9194	9577	9819	9897	9895
13	9931	9911	9743	9434	8999	8464	8027	7740	7671	7846	8205	8710	9198	9606	9859	9938	9931
14	9954	9941	9774	9457	8977	8403	7927	7623	7556	7741	8130	8663	9196	9627	9893	9968	9954
15	9978	9975	9809	9471	8960	8342	7835	7513	7432	7636	8038	8621	9195	9656	9924	9997	9978
16	9996	9994	9836	9482	8947	8279	7738	7399	7295	7533	7957	8576	9185	9685	9948	10028	9996
17	10016	10023	9860	9507	8939	8217	7643	7283	7178	7406	7873	8533	9185	9709	9971	10052	10016
18	10028	10041	9881	9529	8921	8163	7538	7165	7060	7292	7794	8485	9185	9737	9990	10067	10028
19	10040	10045	9909	9549	8909	8099	7442	7042	6947	7186	7702	8443	9193	9763	10011	10080	10040
20	10040	10054	9933	9582	8897	8046	7343	6925	6827	7073	7613	8405	9197	9797	10031	10090	10040
21	10045	10067	9947	9605	8888	7989	7246	6811	6718	6964	7528	8361	9211	9821	10050	10095	10045
22	10042	10079	9975	9630	8878	7926	7153	6699	6591	6854	7436	8315	9212	9846	10068	10096	10042
23	10046	10092	10006	9657	8863	7867	7062	6588	6473	6739	7348	8269	9221	9876	10082	10097	10046
24	10047	10093	10037	9680	8855	7805	6967	6467	6360	6635	7264	8226	9234	9899	10103	10102	10047
25	10045	10097	10070	9700	8855	7746	6873	6360	6238	6524	7177	8186	9241	9929	10123	10103	10045
26	10037	10104	10093	9729	8841	7696	6794	6254	6111	6408	7096	8147	9248	9957	10136	10105	10037
27	10033	10107	10115	9754	8831	7645	6707	6146	5994	6307	7012	8101	9254	9999	10157	10101	10033
28	10034	10114	10138	9773	8822	7586	6616	6035	5873	6202	6934	8051	9267	10034	10170	10103	10034
29	10036	10125	10157	9799	8822	7542	6515	5911	5759	6098	6859	8004	9279	10061	10195	10102	10036
30	10046	10139	10181	9827	8813	7483	6430	5793	5636	5985	6780	7964	9287	10084	10216	10109	10046
31	10046	10158	10209	9843	8814	7425	6352	5679	5508	5883	6696	7926	9296	10113	10237	10116	10046
32	10052	10169	10236	9863	8807	7371	6264	5565	5376	5764	6617	7884	9302	10139	10267	10123	10052
33	10051	10193	10262	9893	8802	7318	6183	5450	5235	5650	6539	7840	9302	10161	10288	10125	10051
34	10061	10217	10288	9927	8793	7262	6092	5327	5108	5535	6455	7793	9302	10188	10309	10126	10061
35	10062	10238	10324	9963	8791	7204	6005	5189	4972	5427	6378	7756	9306	10224	10335	10126	10062
36	10063	10258	10349	9998	8776	7158	5917	5063	4818	5303	6303	7714	9313	10256	10361	10134	10063
37	10068	10283	10376	10036	8764	7112	5831	4928	4675	5177	6229	7676	9320	10290	10389	10144	10068
38	10073	10309	10408	10061	8759	7066	5733	4795	4530	5057	6162	7635	9329	10330	10409	10161	10073
39	10086	10334	10445	10092	8768	7019	5652	4660	4383	4930	6077	7593	9338	10358	10437	10170	10086
40	10100	10363	10481	10132	8785	6969	5547	4513	4234	4804	6002	7555	9352	10383	10478	10182	10100
41	10103	10394	10523	10171	8789	6916	5449	4372	4095	4675	5923	7515	9365	10423	10514	10201	10103
42	10109	10430	10563	10202	8789	6877	5352	4243	3948	4539	5830	7480	9364	10458	10537	10211	10109
43	10106	10461	10598	10233	8778	6830	5236	4101	3818	4415	5740	7439	9375	10502	10569	10230	10106
44	10091	10497	10637	10266	8769	6787	5132	3972	3695	4290	5638	7394	9387	10532	10608	10244	10091
45	10063	10522	10691	10288	8752	6738	5015	3845	3577	4161	5554	7353	9402	10565	10651	10250	10063
46	10019	10549	10745	10317	8737	6688	4901	3724	3460	4043	5464	7315	9406	10604	10697	10240	10019

47	9956	10566	10802	10346	8727	6637	4783	3607	3354	3919	5359	7278	9398	10637	10738	10224	9956
48	9871	10570	10859	10374	8723	6591	4649	3485	3251	3794	5253	7229	9388	10668	10794	10194	9871
49	9758	10554	10933	10409	8716	6546	4526	3379	3157	3684	5138	7194	9385	10709	10839	10157	9758
50	9622	10517	10997	10448	8710	6494	4398	3281	3056	3571	5026	7155	9386	10747	10884	10094	9622
51	9432	10465	11063	10487	8703	6444	4277	3187	2971	3472	4908	7115	9401	10794	10942	10000	9432
52	9187	10395	11150	10527	8699	6391	4139	3097	2888	3370	4794	7070	9413	10839	10999	9859	9187
53	8869	10263	11225	10576	8702	6337	4006	3016	2814	3276	4665	7029	9422	10883	11033	9682	8869
54	8504	10098	11298	10626	8708	6270	3893	2929	2752	3191	4527	6996	9432	10955	11075	9456	8504
55	8049	9857	11371	10684	8704	6208	3772	2852	2667	3106	4401	6950	9436	11015	11092	9189	8049
56	7557	9530	11425	10736	8688	6134	3645	2779	2601	3024	4274	6899	9442	11088	11095	8821	7557
57	6981	9185	11485	10792	8678	6059	3544	2707	2533	2941	4144	6848	9459	11163	11103	8400	6981
58	6338	8721	11524	10849	8676	5967	3430	2630	2469	2867	4016	6796	9467	11242	11085	7899	6338
59	5713	8187	11537	10922	8676	5871	3329	2565	2402	2790	3890	6744	9479	11326	11032	7375	5713
60	5027	7627	11538	11009	8679	5774	3232	2496	2333	2720	3757	6685	9491	11417	10937	6731	5027
61	4357	6944	11500	11093	8681	5657	3127	2429	2262	2637	3643	6617	9519	11503	10804	6124	4357
62	3792	6270	11416	11184	8700	5524	3032	2353	2189	2569	3517	6549	9541	11603	10598	5412	3792
63	3305	5543	11291	11300	8730	5388	2942	2285	2116	2489	3407	6475	9565	11699	10367	4810	3305
64	2929	4819	11118	11431	8753	5260	2849	2200	2017	2420	3292	6387	9604	11826	10033	4174	2929
65	2584	4189	10860	11571	8785	5118	2750	2125	1936	2326	3181	6296	9649	11933	9612	3594	2584
66	2298	3610	10502	11703	8816	4965	2658	2027	1843	2242	3073	6184	9681	12058	9123	3127	2298
67	2069	3111	10077	11871	8861	4794	2546	1925	1752	2148	2957	6071	9730	12185	8614	2772	2069
68	1883	2704	9521	12062	8914	4637	2440	1823	1641	2051	2838	5947	9790	12283	7995	2453	1883
69	1720	2389	8925	12263	8961	4460	2330	1704	1506	1934	2716	5810	9863	12397	7274	2181	1720
70	1578	2110	8256	12451	8998	4278	2205	1557	1364	1816	2598	5642	9930	12504	6589	1973	1578
71	1446	1893	7475	12653	9009	4064	2082	1406	1143	1660	2478	5468	10012	12599	5844	1772	1446
72	1331	1716	6751	12796	9003	3852	1949	1283	931	1512	2333	5280	10073	12668	5135	1614	1331
73	1212	1547	5947	12847	8885	3612	1806	1138	773	1369	2200	5066	10096	12700	4448	1473	1212
74	1068	1416	5210	12798	8690	3338	1618	957	668	1248	2068	4790	10016	12661	3869	1354	1068
75	954	1290	4469	12614	8372	2994	1443	791	588	1124	1921	4488	9806	12468	3319	1224	954
76	851	1179	3757	12222	7909	2701	1309	646	523	998	1762	4141	9395	12125	2798	1109	851
77	760	1062	3133	11499	7300	2417	1164	553	465	865	1548	3767	8765	11642	2401	995	760
78	670	959	2607	10580	6481	2147	1020	472	412	735	1372	3398	7842	10998	2065	892	670
79	590	873	2117	9556	5650	1891	873	403	368	619	1196	3023	6834	10195	1764	795	590
80	513	777	1686	8151	4763	1622	738	349	320	529	1017	2696	5751	9258	1526	701	513
81	439	681	1321	6747	3768	1367	624	300	279	436	874	2375	4570	8035	1299	617	439
82	381	584	1014	5183	2977	1061	516	248	237	367	706	2071	3340	6863	1051	536	381
83	320	494	783	3825	2082	757	394	197	192	297	529	1769	2316	5466	835	462	320
84	269	415	598	2652	1390	527	278	162	148	249	379	1479	1466	4353	653	392	269
85	212	319	426	1631	891	347	191	120	114	190	270	1160	816	3235	493	333	212
86	168	236	286	920	534	210	108	79	74	138	195	870	448	2258	384	268	168
87	118	164	180	400	281	118	42	43	56	76	133	471	232	1340	262	197	118
88	85	95	83	101	119	55	22	34	42	54	88	253	106	678	159	135	85
89	45	39	50	53	34	23	8	16	20	26	46	120	48	217	81	67	45
90	35	33	37	44	18	22	6	11	24	22	39	68	19	50	34	34	35
91	32	26	32	39	13	20	9	0	23	24	47	47	12	39	21	29	32
92	29	26	25	31	14	19	5	8	18	22	39	47	9	33	17	25	29
93	31	19	25	31	14	19	3	10	17	24	45	46	12	26	14	26	31
94	32	19	20	29	6	22	4	7	18	24	38	46	4	26	20	24	32
95	30	19	28	21	8	19	7	7	17	20	35	47	4	25	22	22	30

96	34	21	27	31	7	18	5	7	12	19	38	36	0	12	11	29	34
97	24	16	21	24	3	15	7	4	15	23	38	42	0	15	8	25	24
98	28	13	19	26	4	19	8	6	14	15	33	41	0	15	8	21	28
99	31	15	22	22	8	12	8	10	11	20	24	43	0	13	12	20	31
100	24	15	24	20	4	18	10	6	14	22	29	33	0	16	6	17	24
101	30	16	15	23	6	13	8	5	12	20	34	34	0	16	4	21	30
102	27	13	18	21	6	21	12	6	11	23	29	41	0	7	7	17	27
103	23	12	20	16	3	18	10	5	13	19	37	31	0	4	10	20	23
104	25	14	15	18	0	20	8	6	11	17	36	38	0	4	3	18	25
105	21	8	16	18	0	24	14	9	14	20	36	42	0	5	10	16	21
106	26	10	23	19	2	18	17	7	16	23	37	33	0	5	10	12	26
107	22	15	13	17	0	22	15	11	16	19	34	29	0	6	5	13	22
108	24	16	13	10	0	21	8	10	10	12	36	29	0	8	6	21	24
109	24	12	18	14	0	20	6	9	14	16	33	28	0	7	9	16	24
110	26	14	13	16	0	19	17	11	17	18	32	31	0	12	4	16	26
111	31	10	18	18	0	18	11	13	16	19	37	36	0	6	8	10	31
112	27	10	13	14	0	26	14	11	16	25	36	35	0	1	2	15	27
113	29	8	12	14	3	19	14	15	19	14	28	31	0	0	3	13	29
114	28	14	12	22	0	26	6	12	24	17	37	30	0	0	0	15	28
115	29	13	15	16	4	16	13	13	19	13	29	28	0	0	1	11	29
116	26	12	15	6	0	15	11	12	25	21	28	29	0	5	0	10	26
117	29	6	11	6	0	18	10	8	16	17	31	28	0	1	0	12	29
118	25	8	6	6	0	14	7	6	23	18	26	30	0	0	0	14	25
119	24	6	14	11	0	16	8	14	22	18	28	28	0	2	1	13	24
120	25	4	13	15	0	16	9	15	16	18	22	26	0	4	1	15	25
121	17	8	7	12	0	15	15	13	16	12	26	29	0	4	0	16	17
122	20	7	11	10	0	8	14	10	20	10	31	26	0	6	2	11	20
123	21	2	11	10	0	15	12	10	15	17	26	24	0	0	4	11	21
124	22	0	10	11	0	12	10	12	16	18	24	28	0	0	0	4	22
125	25	0	13	14	0	10	12	19	18	21	25	24	0	5	1	9	25
126	20	3	10	11	0	12	14	12	14	11	25	18	0	5	3	12	20
127	22	8	13	8	0	13	11	16	23	20	25	20	0	2	3	6	22
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178	20	10	17	12	0	0	6	6	19	10	15	15	0	10	8	0	20
179	16	12	12	15	0	0	4	11	21	14	11	16	0	9	5	5	16
180	14	9	19	13	0	5	1	7	17	15	19	12	0	9	6	6	14

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB]
[ISSUE DATE] 2018-1-31 09:36
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-300-T3-200V
[_TOTALLUMINAIRELUMENS] 36703.8
[VOLTAGE] 199.3 V
[CURRENT] 1.480 A
[POWERFACTOR] 0.988
[TESTINST] GPM-3000
[TESTDIST] 17.398 M
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.