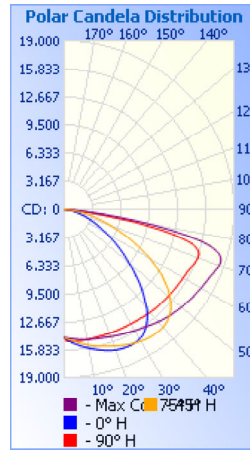


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 450W T3 - 277V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-450-T3-277V
Lamp Output: 1 lamp, rated Lumens/lamp: 54426.8
Max Candela: 18,458.5 at Horizontal: 75°, Vertical: 71°
Input Wattage: 431.4
Luminous Opening: Point
Test Date: 2018-7-27
Test Lab: Shenzhen Belling Test Laboratory
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	29.1	
Max Cd, 80 to <90 Deg:	10,320.9	
	Lumens	% Lamp
Downward Street Side:	33,026.8	60.7%
Downward House Side:	21,281.1	39.1%
Downward Total:	54,307.9	99.8%
Upward Street Side:	55.2	0.1%
Upward House Side:	64.0	0.1%
Upward Total:	119.1	0.2%
Total Lumens:	54,427.0	100%

Flood Summary

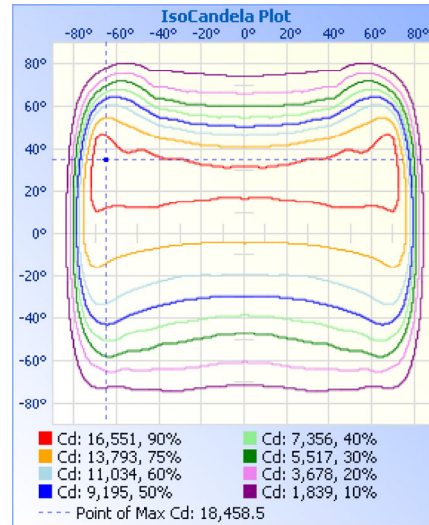
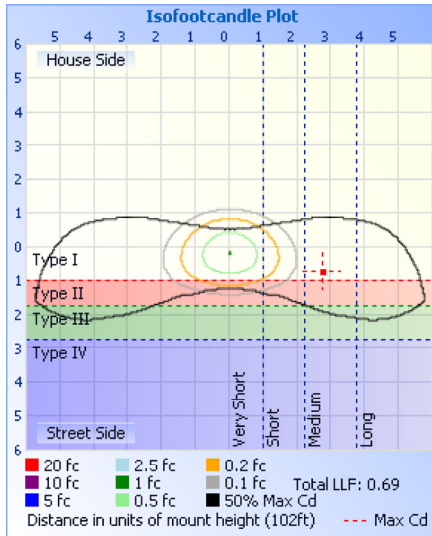
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	53,553.3	165.9	150.6
Beam (50%):	78%	42,460.5	155.2	106.4
Total:	100%	54,406.7		

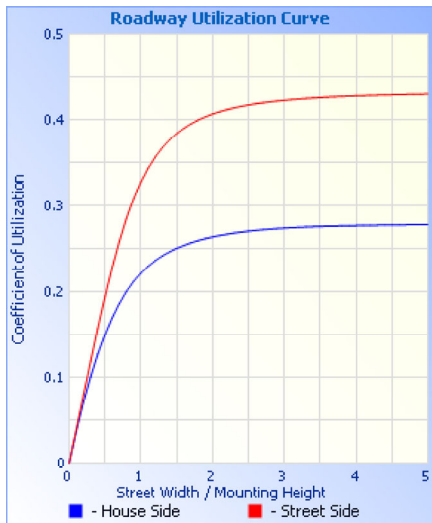
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	11,864.9	21.8%	21.8%
0-40	20,264.5	37.2%	37.2%
0-60	38,932.6	71.5%	71.5%
60-90	15,371.9	28.2%	28.2%
70-100	7,114.4	13.1%	13.1%
90-120	47.3	0.1%	0.1%
0-90	54,304.5	99.8%	99.8%
90-180	119.1	0.2%	0.2%
0-180	54,423.6	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,375.1	2.5%	90-100	13.9	0%
10-20	4,035.6	7.4%	100-110	15.4	0%
20-30	6,454.1	11.9%	110-120	18.1	0%
30-40	8,399.6	15.4%	120-130	18.5	0%
40-50	9,401.0	17.3%	130-140	17.4	0%
50-60	9,267.1	17.0%	140-150	14.9	0%
60-70	8,271.4	15.2%	150-160	11.6	0%
70-80	5,936.7	10.9%	160-170	7.0	0%
80-90	1,163.8	2.1%	170-180	2.3	0%





Illuminance at a Distance

Distance	Center Beam fc	Beam Width	Illuminance (fc)
16.7ft	51.5 fc	44.7 ft	152.2 fc
33.3ft	13.0 fc	89.1 ft	303.5 fc
50.0ft	5.75 fc	133.8 ft	455.7 fc
66.7ft	3.23 fc	178.5 ft	607.9 fc
83.3ft	2.07 fc	222.9 ft	759.2 fc
100.0ft	1.44 fc	267.6 ft	911.4 fc

■ Vert. Spread: 106.4°
■ Horiz. Spread: 155.2°

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
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00
1	1.07	1.02	.97	.93	1.05	1.00	.95	.82	.95	.92	.89	.81	.91	.88	.86	.81	.88	.85	.83	.81	.81
2	.97	.87	.80	.74	.94	.85	.79	.67	.82	.76	.71	.67	.78	.73	.69	.67	.75	.71	.68	.65	.65
3	.87	.76	.67	.60	.85	.74	.66	.55	.71	.64	.58	.55	.68	.62	.57	.55	.65	.60	.56	.53	.53
4	.79	.66	.57	.50	.77	.65	.56	.47	.62	.55	.48	.47	.60	.53	.48	.45	.58	.52	.47	.45	.45
5	.73	.59	.49	.42	.70	.58	.49	.40	.55	.47	.41	.41	.53	.46	.41	.41	.51	.45	.40	.38	.38
6	.67	.53	.43	.36	.65	.52	.43	.35	.50	.42	.36	.36	.48	.41	.35	.35	.46	.40	.35	.33	.33
7	.62	.47	.38	.32	.60	.47	.38	.31	.45	.37	.31	.31	.43	.36	.31	.31	.42	.36	.31	.29	.29
8	.57	.43	.34	.28	.56	.42	.34	.27	.41	.33	.28	.28	.40	.33	.27	.27	.38	.32	.27	.25	.25
9	.53	.39	.31	.25	.52	.39	.30	.24	.37	.30	.25	.25	.36	.29	.24	.24	.35	.29	.24	.22	.22
10	.50	.36	.28	.22	.49	.36	.28	.22	.35	.27	.22	.22	.34	.27	.22	.22	.33	.26	.22	.20	.20

Candela Table - Type C

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
0	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377	14377
1	14639	14539	14563	14509	14455	14418	14805	14337	14300	14300	14280	14235	14354	14235	14280	14300	14300	14337	14805	14418	14455	14509	14563	14539	14639
2	14755	14665	14684	14613	14531	14459	14805	14301	14222	14198	14150	14078	14149	14078	14150	14198	14222	14301	14805	14459	14531	14613	14684	14665	14755
3	14939	14807	14806	14709	14605	14501	14809	14268	14152	14086	14024	13931	13990	13931	14024	14086	14152	14268	14809	14501	14605	14709	14806	14807	14939
4	15071	14972	14915	14804	14690	14547	14818	14231	14083	13981	13879	13767	13827	13767	13879	13981	14083	14231	14818	14547	14690	14804	14915	14972	15071
5	15199	15102	15066	14927	14767	14607	14826	14201	13999	13858	13744	13608	13666	13608	13744	13858	13999	14201	14826	14607	14767	14927	15066	15102	15199
6	15331	15231	15191	15032	14849	14655	14828	14159	13922	13746	13584	13424	13463	13424	13584	13746	13922	14159	14828	14655	14849	15032	15191	15231	15331
7	15474	15347	15300	15149	14933	14700	14834	14130	13844	13612	13430	13264	13267	13264	13430	13612	13844	14130	14834	14700	14933	15149	15300	15347	15474
8	15596	15434	15408	15247	15010	14737	14835	14098	13755	13496	13275	13099	13098	13099	13275	13496	13755	14098	14835	14737	15010	15247	15408	15434	15596
9	15713	15588	15530	15354	15087	14778	14833	14061	13674	13367	13129	12916	12926	12916	13129	13367	13674	14061	14833	14778	15087	15354	15530	15588	15713
10	15823	15682	15580	15458	15164	14810	14828	14011	13579	13247	12966	12733	12757	12733	12966	13247	13579	14011	14828	14810	15164	15458	15580	15682	15823
11	15961	15798	15713	15552	15232	14837	14818	13964	13486	13118	12820	12539	12562	12539	12820	13118	13486	13964	14818	14837	15232	15552	15713	15798	15961
12	16058	15917	15818	15649	15301	14864	14802	13915	13376	12980	12674	12388	12387	12388	12674	12980	13376	13915	14802	14864	15301	15649	15818	15917	16058
13	16160	16019	15933	15741	15360	14894	14784	13861	13277	12866	12502	12223	12205	12223	12502	12866	13277	13861	14784	14894	15360	15741	15933	16019	16160
14	16261	16123	16033	15815	15406	14937	14778	13797	13182	12730	12327	12031	12034	12031	12327	12730	13182	13797	14778	14937	15406	15815	16033	16123	16261
15	16379	16234	16146	15900	15460	14963	14768	13735	13092	12602	12173	11845	11837	11845	12173	12602	13092	13735	14768	14963	15460	15900	16146	16234	16379
16	16482	16331	16239	15985	15522	14998	14762	13682	12981	12445	12021	11681	11666	11681	12021	12445	12981	13682	14762	14998	15522	15985	16239	16331	16482
17	16577	16435	16324	16067	15589	15030	14760	13627	12882	12310	11863	11490	11490	11490	11863	12310	12882	13627	14760	15030	15589	16067	16324	16435	16577
18	16666	16515	16415	16148	15651	15078	14764	13571	12787	12182	11716	11319	11275	11319	11716	12182	12787	13571	14764	15078	15651	16148	16415	16515	16666
19	16740	16614	16491	16232	15738	15122	14769	13520	12679	12032	11537	11149	11058	11149	11537	12032	12679	13520	14769	15122	15738	16232	16491	16614	16740
20	16813	16691	16563	16309	15812	15183	14778	13466	12593	11903	11383	10959	10879	10959	11383	11903	12593	13466	14778	15183	15812	16309	16563	16691	16813
21	16854	16755	16638	16392	15882	15223	14787	13419	12496	11768	11212	10787	10699	10787	11212	11768	12496	13419	14787	15223	15882	16392	16638	16755	16854
22	16897	16815	16698	16492	15955	15279	14794	13375	12386	11609	11042	10604	10527	10604	11042	11609	12386	13375	14794	15279	15955	16492	16698	16815	16897
23	16928	16871	16755	16574	16052	15327	14798	13330	12281	11469	10896	10442	10337	10442	10896	11469	12281	13330	14798	15327	16052	16574	16755	16871	16928
24	16963	16901	16803	16659	16139	15373	14793	13279	12194	11344	10702	10244	10174	10244	10702	11344	12194	13279	14793	15373	16139	16659	16803	16901	16963
25	16984	16915	16833	16733	16223	15422	14792	13233	12098	11201	10572	10089	9998	10089	10572	11201	12098	13233	14792	15422	16223	16733	16833	16915	16984
26	16984	16923	16869	16813	16292	15463	14794	13189	12007	11058	10386	9927	9790	9927	10386	11058	12007	13189	14794	15463	16292	16813	16869	16923	16984
27	16968	16925	16894	16890	16376	15520	14802	13146	11907	10926	10217	9743	9610	9743	10217	10926	11907	13146	14802	15520	16376	16890	16894	16925	16968
28	16933	16915	16922	16966	16455	15525	14808	13094	11815	10800	10070	9534	9426	9534	10070	10800	11815	13094	14808	15525	16455	16966	16922	16915	16933
29	16883	16881	16947	17021	16537	15643	14814	13034	11723	10656	9928	9358	9190	9358	9928	10656	11723	13034	14814	15643	16537	17021	16947	16881	16883
30	16794	16827	16969	17077	16612	15700	14824	12989	11622	10529	9754	9181	9027	9181	9754	10529	11622	12989	14824	15700	16612	17077	16969	16827	16794
31	16724	16737	16963	17126	16702	15767	14833	12944	11515	10408	9596	8998	8837	8998	9596	10408	11515	12944	14833	15767	16702	17126	16963	16737	16724
32	16602	16641	16949	17175	16777	15829	14849	12891	11422	10278	9419	8791	8643	8791	9419	10278	11422	12891	14849	15829	16777	17175	16949	16641	16602
33	16399	16521	16907	17214	16856	15892	14869	12849	11321	10142	9259	8582	8374	8582	9259	10142	11321	12849	14869	15892	16856	17214	16907	16521	16399
34	16237	16340	16832	17240	16940	15944	14883	12811	11234	10033	9102	8395	8172	8395	9102	10033	11234	12811	14883	15944	16940	17240	16832	16340	16237
35	15988	16172	16732	17256	17026	16010	14888	12770	11149	9915	8918	8177	7969	8177	8918	9915	11149	12770	14888	16010	17026	17256	16732	16172	15988
36	15697	15970	16629	17270	17105	16087	14911	12728	11059	9788	8753	7989	7767	7989	8753	9788	11059	12728	14911	16087	17105	17270	16629	15970	15697
37	15408	15683	16510	17269	17172	16183	14933	12687	10959	9626	8591	7799	7560	7799	8591	9626	10959	12687	14933	16183	17172	17269	16510	15683	15408
38	15085	15443	16349	17259	17238	16255	14957	12649	10858	9495	8438	7606	7335	7606	8438	9495	10858	12649	14957	16255	17238	17259	16349	15443	15085
39	14730	15063	16168	17246	17311	16337	14985	12608	10787	9360	8232	7372	7085	7372	8232	9360	10787	12608	14985	16337	17311	17246	16168	15063	14730
40	14356	14724	15934	17221	17374	16409	15015	12567	10700	9226	8065	7148	6872	7148	8065	9226	10700	12567	15015	16409	17374	17221	15934	14724	14356
41	13827	14318	15698	17145	17448	16494	15036	12523	10606	9081	7889	6923	6665	6923	7889	9081	10606	12523	15036	16494	17448	17145	15698	14318	13827
42	13397	13893	15395	17066	17509	16567	15055	12488	10522	8924	7715	6705	6389	6705	7715	8924	10522	12488	15055	16567	17509	17066	15395	13893	13397
43	12957	13487	15052	16963	17560	16634	15075	12447	10426	8783	7520	6493	6190	6493	7520	8783	10426	12447	15075	16634	17560	16963	15052	13487	12957
44	12509	13057	14726	16836	17598	16703	15090	12411	10334	8641	7335	6294	5996	6294	7335	8641	10334	12411	15090	16703	17598	16836	14726	13057	12509
45	12058	12537	14378	16678	17619	16774	15104	12375	10241	8485	7147	6103	5810	6103	7147	8485	10241	12375	15104	16774	17619	16678	14378	12537	12058
46	11591	12082	13921	16517</																					

64	4327	4570	5676	8947	15380	17899	15514	11360	7296	4830	3980	3377	3161	3377	3980	4830	7296	11360	15514	17899	15380	8947	5676	4570	4327
65	4004	4229	5251	8443	15080	17965	15565	11283	7064	4669	3846	3233	3023	3233	3846	4669	7064	11283	15565	17965	15080	8443	5251	4229	4004
66	3742	3979	4939	7953	14626	18073	15632	11176	6808	4503	3694	3091	2868	3091	3694	4503	6808	11176	15632	18073	14626	7953	4939	3979	3742
67	3506	3705	4583	7424	14255	18170	15721	11072	6528	4231	3546	2933	2738	2933	3546	4231	6528	11072	15721	18170	14255	7424	4583	3705	3506
68	3234	3462	4249	6896	13855	18253	15775	10915	6237	4076	3376	2783	2597	2783	3376	4076	6237	10915	15775	18253	13855	6896	4249	3462	3234
69	3004	3225	3963	6458	13448	18356	15851	10741	5957	3919	3227	2629	2415	2629	3227	3919	5957	10741	15851	18356	13448	6458	3963	3225	3004
70	2744	2950	3653	5912	13007	18408	15894	10550	5665	3730	3058	2402	2060	2402	3058	3730	5665	10550	15894	18408	13007	5912	3653	2950	2744
71	2543	2733	3391	5392	12429	18458	15902	10297	5366	3542	2853	2131	1743	2131	2853	3542	5366	10297	15902	18458	12429	5392	3391	2733	2543
72	2349	2504	3137	4977	11943	18445	15842	9941	5033	3308	2642	1893	1437	1893	2642	3308	5033	9941	15842	18445	11943	4977	3137	2504	2349
73	2138	2315	2856	4584	11462	18295	15657	9557	4683	3071	2421	1586	1200	1586	2421	3071	4683	9557	15657	18295	11462	4584	2856	2315	2138
74	1864	2102	2643	4196	10846	18026	15281	9033	4030	2859	2210	1288	1009	1288	2210	2859	4030	9033	15281	18026	10846	4196	2643	2102	1864
75	1686	1912	2453	3772	10231	17513	14807	8481	4003	2595	1964	1014	883	1014	1964	2595	4003	8481	14807	17513	10231	3772	2453	1912	1686
76	1512	1735	2219	3374	9438	16795	13827	7874	3609	2320	1746	861	774	861	1746	2320	3609	7874	13827	16795	9438	3374	2219	1735	1512
77	1347	1534	2001	3037	8690	15642	12683	7183	3190	2020	1537	736	661	736	1537	2020	3190	7183	12683	15642	8690	3037	2001	1534	1347
78	1192	1374	1833	2716	8000	14093	11264	6395	2851	1767	1332	614	572	614	1332	1767	2851	6395	11264	14093	8000	2716	1833	1374	1192
79	1066	1197	1639	2354	7192	12223	9367	5671	2514	1506	1128	517	491	517	1128	1506	2514	5671	9367	12223	7192	2354	1639	1197	1066
80	954	1075	1468	1998	6389	10321	7855	4622	2089	1222	950	441	423	441	950	1222	2089	4622	7855	10321	6389	1998	1468	1075	954
81	742	1006	1271	1683	5471	8272	5345	3947	1525	996	764	378	333	378	764	996	1525	3947	5345	8272	5471	1683	1271	1006	742
82	602	769	1093	1391	4470	5984	4029	3560	1046	759	626	282	263	282	626	759	1046	3560	4029	5984	4470	1391	1093	769	602
83	522	652	1064	1139	3662	4435	2913	2898	744	518	470	222	205	222	470	518	744	2898	2913	4435	3662	1139	1064	652	522
84	405	554	754	1070	2765	2881	1682	2313	507	344	312	177	161	177	312	344	507	2313	1682	2881	2765	1070	754	554	405
85	320	453	598	642	2046	1781	1064	1635	347	232	253	128	101	128	253	347	1635	1064	1781	2046	642	598	453	320	
86	228	331	423	457	1392	1169	623	996	217	144	166	73	48	73	166	144	217	996	623	1169	1392	457	423	331	228
87	136	197	254	235	1110	623	276	449	119	83	94	37	22	37	94	83	119	449	276	623	1110	235	254	197	136
88	54	62	77	92	262	155	105	197	50	31	44	17	11	17	44	31	50	197	105	155	262	92	77	62	54
89	14	15	18	23	38	46	34	62	20	13	15	4	3	4	15	13	20	62	34	46	38	23	18	15	14
90	9	11	13	17	25	29	26	27	15	9	6	3	3	3	6	9	15	27	26	29	25	17	13	11	9
91	8	9	12	15	23	27	25	20	14	8	5	3	3	3	5	8	14	20	25	27	23	15	12	9	8
92	7	8	11	14	21	26	24	20	14	8	5	3	3	3	5	8	14	20	24	26	21	14	11	8	7
93	7	8	10	13	20	24	23	19	14	8	5	3	3	3	5	8	14	19	23	24	20	13	10	8	7
94	7	8	9	12	19	24	23	19	14	8	5	3	3	3	5	8	14	19	23	24	19	12	9	8	7
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2018-7-27
[TESTLAB] Shenzhen Belling Test Laboratory
[ISSUE DATE] 2018-7-27
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-450-T3-277V
[_TOTALLUMINAIRELUMENS] 54423.6
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 25
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.