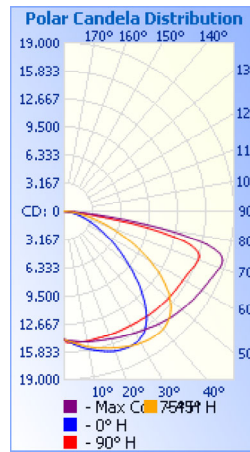


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 450W T3 - 120V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-450-T3
Lamp Output: 1 lamp, rated Lumens/lamp: 54464.7
Max Candela: 18,584.1 at Horizontal: 75°, Vertical: 72°
Input Wattage: 434.4
Luminous Opening: Point
Test Date: 2018-7-26
Test Lab: Shenzhen Belling Test Laboratory
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	29.7	
Max Cd, 80 to <90 Deg:	11,304.7	
	Lumens	% Lamp
Downward Street Side:	33,149.5	60.9%
Downward House Side:	21,196.2	38.9%
Downward Total:	54,345.7	99.8%
Upward Street Side:	55.1	0.1%
Upward House Side:	64.0	0.1%
Upward Total:	119.1	0.2%
Total Lumens:	54,464.8	100%

Flood Summary

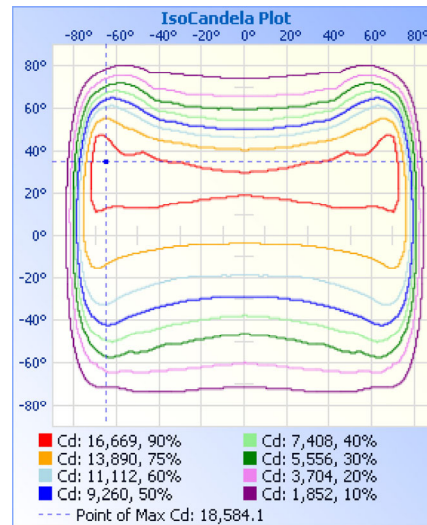
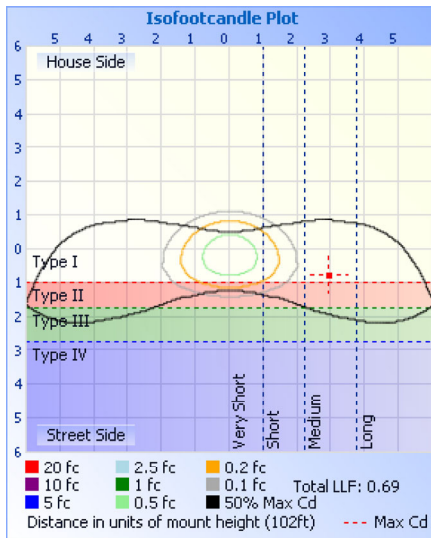
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	53,587.9	165.7	149.1
Beam (50%):	77.7%	42,293.4	154.2	104.3
Total:	100%	54,442.7		

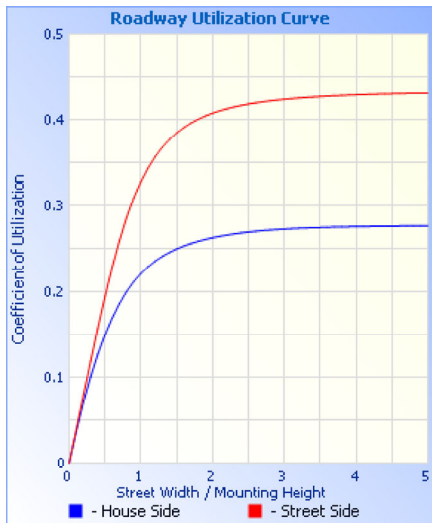
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	11,861.6	21.8%	21.8%
0-40	20,258.8	37.2%	37.2%
0-60	38,935.0	71.5%	71.5%
60-90	15,407.4	28.3%	28.3%
70-100	7,146.6	13.1%	13.1%
90-120	47.3	0.1%	0.1%
0-90	54,342.4	99.8%	99.8%
90-180	119.1	0.2%	0.2%
0-180	54,461.5	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,374.3	2.5%	90-100	13.8	0%
10-20	4,034.4	7.4%	100-110	15.3	0%
20-30	6,452.9	11.8%	110-120	18.1	0%
30-40	8,397.2	15.4%	120-130	18.5	0%
40-50	9,401.4	17.3%	130-140	17.4	0%
50-60	9,274.8	17.0%	140-150	14.9	0%
60-70	8,274.7	15.2%	150-160	11.6	0%
70-80	5,944.7	10.9%	160-170	7.0	0%
80-90	1,188.0	2.2%	170-180	2.4	0%





Illuminance at a Distance

Distance	Center Beam fc	Beam Width	Illuminance (fc)
16.7ft	51.6 fc	43.0 ft	145.8 ft
33.3ft	13.0 fc	85.7 ft	290.7 ft
50.0ft	5.75 fc	128.6 ft	436.5 ft
66.7ft	3.23 fc	171.6 ft	582.3 ft
83.3ft	2.07 fc	214.3 ft	727.3 ft
100.0ft	1.44 fc	257.2 ft	873.1 ft

■ Vert. Spread: 104.3°
■ Horiz. Spread: 154.2°

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	.88	.88	.91	.88	.86	.86	.88	.85	.83	.81	.81
2	.97	.87	.80	.74	.94	.85	.78	.67	.82	.76	.71	.71	.78	.73	.69	.69	.75	.71	.68	.65	.65
3	.87	.76	.67	.60	.85	.74	.66	.55	.71	.64	.58	.58	.68	.62	.57	.57	.65	.60	.56	.53	.53
4	.79	.66	.57	.50	.77	.65	.56	.47	.62	.55	.48	.48	.60	.53	.48	.48	.58	.52	.47	.45	.45
5	.73	.59	.49	.42	.70	.58	.48	.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	.46	.38	.30	.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	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387	14387
1	14527	14541	14522	14494	14489	14453	14748	14357	14327	14287	14264	14220	14217	14220	14264	14287	14327	14357	14748	14453	14489	14494	14522	14541	14527
2	14662	14678	14659	14607	14557	14496	14749	14335	14261	14185	14139	14076	14064	14076	14139	14185	14261	14335	14749	14496	14557	14607	14659	14678	14662
3	14797	14801	14784	14704	14629	14545	14759	14307	14182	14081	13984	13911	13904	13911	13984	14081	14182	14307	14759	14545	14629	14704	14784	14801	14797
4	14957	14959	14902	14802	14709	14589	14766	14272	14105	13957	13824	13761	13744	13761	13824	13957	14105	14272	14766	14589	14709	14802	14902	14959	14957
5	15084	15091	15033	14927	14801	14632	14772	14239	14031	13853	13685	13591	13525	13591	13685	13853	14031	14239	14772	14632	14801	14927	15033	15091	15084
6	15211	15233	15150	15020	14894	14688	14781	14203	13960	13738	13543	13434	13359	13434	13543	13738	13960	14203	14781	14688	14894	15020	15150	15233	15211
7	15336	15361	15285	15123	14971	14741	14786	14167	13855	13580	13392	13258	13193	13258	13392	13580	13855	14167	14786	14741	14971	15123	15285	15361	15336
8	15502	15473	15397	15223	15047	14784	14785	14137	13781	13467	13235	13095	12997	13095	13235	13467	13781	14137	14785	14784	15047	15223	15397	15473	15502
9	15614	15592	15513	15347	15125	14825	14785	14096	13700	13358	13084	12886	12827	12886	13084	13358	13700	14096	14785	14825	15125	15347	15513	15592	15614
10	15723	15697	15639	15441	15199	14862	14779	14050	13613	13239	12919	12716	12661	12716	12919	13239	13613	14050	14779	14862	15199	15441	15639	15697	15723
11	15825	15804	15744	15538	15265	14894	14769	13993	13497	13092	12774	12548	12489	12548	12774	13092	13497	13993	14769	14894	15265	15538	15744	15804	15825
12	15934	15904	15852	15630	15330	14918	14755	13946	13405	12973	12616	12385	12313	12385	12616	12973	13405	13946	14755	14918	15330	15630	15852	15904	15934
13	16040	16010	15979	15734	15392	14942	14741	13888	13309	12849	12464	12188	12081	12188	12464	12849	13309	13888	14741	14942	15392	15734	15979	16010	16040
14	16141	16126	16089	15815	15451	14973	14724	13829	13217	12721	12288	12027	11936	12027	12288	12721	13217	13829	14724	14973	15451	15815	16089	16126	16141
15	16237	16246	16187	15886	15497	15015	14719	13761	13108	12569	12113	11844	11766	11844	12113	12569	13108	13761	14719	15015	15497	15886	16187	16246	16237
16	16358	16343	16280	15974	15553	15046	14717	13705	13011	12436	11962	11677	11534	11677	11962	12436	13011	13705	14717	15046	15553	15974	16280	16343	16358
17	16452	16439	16377	16054	15630	15080	14718	13652	12914	12303	11815	11498	11364	11498	11815	12303	12914	13652	14718	15080	15630	16054	16377	16439	16452
18	16542	16537	16468	16133	15699	15117	14720	13592	12802	12175	11665	11328	11182	11328	11665	12175	12802	13592	14720	15117	15699	16133	16468	16537	16542
19	16622	16625	16536	16222	15772	15167	14721	13543	12700	12004	11486	11140	10998	11140	11486	12004	12700	13543	14721	15167	15772	16222	16536	16625	16622
20	16698	16694	16605	16291	15850	15216	14733	13500	12603	11870	11329	10969	10789	10969	11329	11870	12603	13500	14733	15216	15850	16291	16605	16694	16698
21	16741	16762	16682	16391	15926	15273	14741	13456	12518	11749	11163	10765	10614	10765	11163	11749	12518	13456	14741	15926	16391	16682	16694	16741	16762
22	16778	16821	16744	16476	16003	15319	14744	13404	12411	11613	10982	10597	10442	10597	10982	11613	12411	13404	14744	16003	16319	16603	16744	16821	16778
23	16811	16874	16804	16556	16083	15378	14746	13356	12305	11453	10838	10396	10278	10396	10838	11453	12305	13356	14746	16083	16556	16804	16874	16811	16811
24	16839	16909	16850	16637	16168	15425	14746	13313	12216	11328	10658	10250	10088	10250	10658	11328	12216	13313	14746	16168	16637	16850	16909	16839	16839
25	16864	16923	16890	16736	16264	15474	14749	13267	12126	11195	10503	10077	9910	10077	10503	11195	12126	13267	14749	16264	16736	16890	16923	16864	16864
26	16868	16930	16921	16810	16333	15515	14751	13224	12017	11051	10320	9916	9734	9916	10320	11051	12017	13224	14751	15515	16333	16810	16921	16930	16868
27	16843	16928	16949	16884	16410	15568	14765	13173	11925	10906	10149	9733	9556	9733	10149	10906	11925	13173	14765	15568	16410	16884	16949	16928	16843
28	16811	16921	16980	16966	16499	15628	14768	13119	11835	10780	10008	9555	9320	9555	10008	10780	11835	13119	14768	15628	16499	16966	16980	16921	16811
29	16764	16882	16999	17020	16589	15686	14779	13058	11730	10656	9862	9363	9140	9363	9862	10656	11730	13058	14779	15686	16589	17020	16999	16882	16764
30	16690	16832	17018	17069	16666	15739	14791	13007	11630	10511	9693	9184	8951	9184	9693	10511	11630	13007	14791	15739	16666	17069	17018	16832	16690
31	16563	16749	17019	17120	16740	15799	14802	12965	11537	10369	9526	8988	8728	8988	9526	10369	11537	12965	14802	15799	16740	17120	17019	16749	16563
32	16436	16655	17002	17162	16821	15864	14818	12921	11445	10251	9366	8769	8533	8769	9366	10251	11445	12921	14818	15864	16821	17162	17002	16655	16436
33	16307	16523	16959	17210	16907	15937	14840	12877	11348	10136	9199	8574	8337	8574	9199	10136	11348	12877	14840	15937	16907	17210	16959	16523	16307
34	16129	16373	16877	17234	16988	15994	14852	12841	11248	10006	9043	8356	8136	8356	9043	10006	11248	12841	14852	15994	16988	17234	16877	16373	16129
35	15829	16174	16790	17249	17061	16059	14865	12806	11162	9869	8867	8183	7866	8183	8867	9869	11162	12806	14865	16059	17061	17249	16790	16174	15829
36	15574	15966	16669	17263	17140	16133	14884	12771	11072	9749	8702	7967	7702	7967	8702	9749	11072	12771	14884	16133	17140	17263	16669	15966	15574
37	15287	15702	16546	17258	17219	16221	14912	12727	10977	9622	8508	7793	7495	7793	8508	9622	10977	12727	14912	16221	17219	17258	16546	15702	15287
38	14965	15421	16383	17253	17301	16302	14940	12680	10897	9491	8359	7564	7235	7564	8359	9491	10897	12680	14940	16302	17301	17253	16383	15421	14965
39	14553	15059	16223	17242	17358	16390	14971	12643	10808	9333	8165	7345	7024	7345	8165	9333	10808	12643	14971	16390	17358	17242	16223	15059	14553
40	14179	14715	15982	17213	17419	16465	14997	12605	10725	9201	8002	7140	6811	7140	8002	9201	10725	12605	14997	16465	17419	17213	15982	14715	14179
41	13785	14318	15718	17144	17504	16545	15020	12567	10629	9078	7821	6930	6575	6930	7821	9078	10629	12567	15020	16545	17504	17144	15718	14318	13785
42	13365	13857	15439	17060	17571	16610	15034	12528	10538	8909	7629	6712	6368	6712	7629	8909	10538	12528	15034	16610	17571	17060	15439	13857	13365
43	12851	13446	15120	16949	17611	16689	15061	12492	10449	8772	7439	6482	6170	6482	7439	8772	10449	12492	15061	16689	17611	16949	15120	13446	12851
44	12405	13018	14762	16823	17645	16756	15084	12457	10362	8632	7236	6303	5918	6303	7236	8632	10362	12457	15084	16756	17645	16823	14762	13018	12405
45	12036	12530	14350	16680	17675	16825	15097	12410	10263	8475	7049	6051	5731	6051	7049	8475	10263	12410	15097	16825	17675	16680	14350	12530	12036
46	11499	12078	13961	16506</																					

64	4242	4588	5687	8979	15407	17984	15546	11374	7296	4837	3931	3376	3135	3376	3931	4837	7296	11374	15546	17984	15407	8979	5687	4588	4242
65	3968	4250	5292	8473	15073	18043	15608	11297	7080	4664	3789	3231	2979	3231	3789	4664	7080	11297	15608	18043	15073	8473	5292	4250	3968
66	3712	3977	4918	7900	14711	18144	15692	11213	6840	4498	3629	3088	2844	3088	3629	4498	6840	11213	15692	18144	14711	7900	4918	3977	3712
67	3437	3684	4590	7372	14303	18227	15765	11075	6539	4226	3473	2921	2716	2921	3473	4226	6539	11075	15765	18227	14303	7372	4590	3684	3437
68	3206	3442	4284	6887	13904	18333	15827	10937	6248	4073	3321	2782	2577	2782	3321	4073	6248	10937	15827	18333	13904	6887	4284	3442	3206
69	2974	3204	3973	6367	13429	18419	15896	10767	5967	3932	3140	2597	2357	2597	3140	3932	5967	10767	15896	18419	13429	6367	3973	3204	2974
70	2755	2949	3662	5900	12981	18509	15928	10478	5626	3741	2955	2415	2092	2415	2955	3741	5626	10478	15928	18509	12981	5900	3662	2949	2755
71	2491	2712	3400	5419	12483	18568	15944	10198	5326	3536	2757	2169	1777	2169	2757	3536	5326	10198	15944	18568	12483	5419	3400	2712	2491
72	2331	2519	3165	5004	12031	18584	15892	9845	5038	3269	2533	1862	1469	1862	2533	3269	5038	9845	15892	18584	12031	5004	3165	2519	2331
73	2122	2331	2881	4610	11420	18536	15671	9403	4741	3083	2290	1554	1155	1554	2290	3083	4741	9403	15671	18536	11420	4610	2881	2331	2122
74	1915	2104	2632	4165	10744	18343	15266	8773	4033	2872	2068	1262	999	1262	2068	2872	4033	8773	15266	18343	10744	4165	2632	2104	1915
75	1671	1913	2426	3738	10124	17989	14703	8176	4006	2586	1860	1025	874	1025	1860	2586	4006	8176	14703	17989	10124	3738	2426	1913	1671
76	1501	1735	2223	3337	9449	17281	13880	7553	3640	2269	1668	859	767	859	1668	2269	3640	7553	13880	17281	9449	3337	2223	1735	1501
77	1338	1535	2022	3036	8751	16371	12640	6835	3215	2034	1416	734	655	734	1416	2034	3215	6835	12640	16371	8751	3036	2022	1535	1338
78	1184	1387	1824	2717	7956	14929	11064	6065	2849	1737	1220	613	567	613	1220	1737	2849	6065	11064	14929	7956	2717	1824	1387	1184
79	1061	1210	1644	2356	7203	13305	9443	5318	2511	1476	1037	515	486	515	1037	1476	2511	5318	9443	13305	7203	2356	1644	1210	1061
80	947	1088	1475	2000	6396	11305	7651	4043	2044	1234	848	447	396	447	848	1234	2044	4043	7651	11305	6396	2000	1475	1088	947
81	738	1009	1288	1708	5404	9172	5297	3890	1473	990	681	376	330	376	681	990	1473	3890	5297	9172	5404	1708	1288	1009	738
82	617	761	1098	1416	4485	7172	3977	3190	1039	753	528	292	260	292	528	753	1039	3190	3977	7172	4485	1416	1098	761	617
83	505	654	1068	1118	3616	5411	2977	2575	739	530	419	230	211	230	419	530	739	2575	2977	5411	3616	1118	1068	654	505
84	417	555	757	979	2829	3688	1728	2018	503	364	310	176	149	176	310	364	503	2018	3688	3688	2829	979	757	555	417
85	334	454	601	630	2105	2218	1049	1245	345	232	210	123	91	123	210	232	345	1245	1049	2218	2105	630	601	454	334
86	243	335	427	446	1343	1334	498	629	215	142	128	76	53	76	128	142	215	498	1334	1343	446	427	335	243	
87	122	210	258	252	1120	1088	258	289	124	81	61	36	21	36	61	81	124	289	258	1088	1120	252	258	210	122
88	43	84	104	105	443	265	111	87	49	30	23	17	10	17	23	30	49	87	111	265	443	105	104	84	43
89	12	15	18	25	50	60	37	28	20	12	7	4	3	4	7	12	20	28	37	60	50	25	18	15	12
90	9	11	13	17	25	30	26	21	15	8	5	3	3	3	5	8	15	21	26	30	25	17	13	11	9
91	8	10	12	15	23	28	24	20	14	8	4	3	3	3	4	8	14	20	24	28	23	15	12	10	8
92	7	8	11	14	21	26	24	20	14	8	4	3	3	3	4	8	14	20	24	26	21	14	11	8	7
93	7	8	10	13	20	25	23	19	14	8	4	3	3	3	4	8	14	19	23	25	20	13	10	8	7
94	6	7	9	12	19	24	23	19	14	8	5	3	3	3	5	8	14	19	23	24	19	12	9	7	6
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2018-7-26
[TESTLAB] Shenzhen Belling Test Laboratory
[ISSUE DATE] 2018-7-26
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-450-T3
[_TOTALLUMINAIRELUMENS] 54461.5
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.