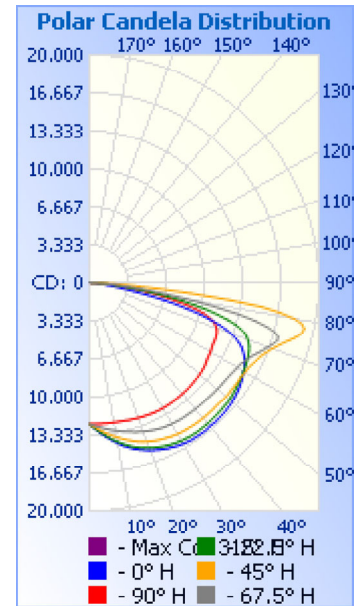


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 450W T4 - 200V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-450-T4-200V
Lamp Output: 1 lamp, rated Lumens/lamp: 57776
Max Candela: 19,427.2 at Horizontal: 315°, Vertical: 79°
Input Wattage: 455.62
Luminous Opening: Point
Test Lab: Belling Test Laboratory Co., LTD
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	305.4	
Max Cd, 80 to <90 Deg:	19,155.6	
	Lumens	% Lamp
Downward Street Side:	40,734.6	70.5%
Downward House Side:	16,824.6	29.1%
Downward Total:	57,559.2	99.6%
Upward Street Side:	111.2	0.2%
Upward House Side:	105.6	0.2%
Upward Total:	216.8	0.4%
Total Lumens:	57,776.0	100%

Flood Summary

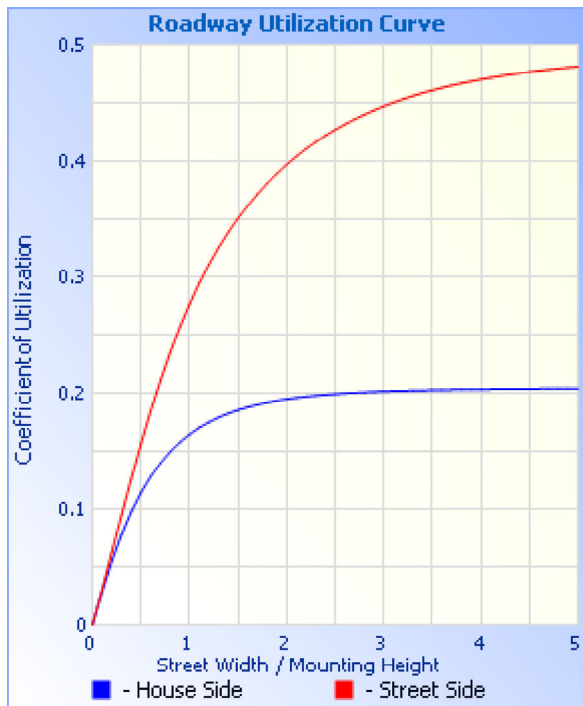
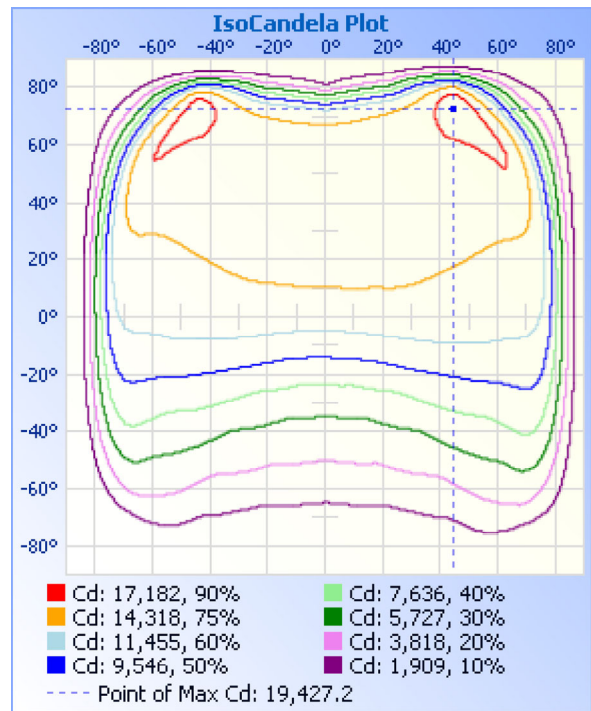
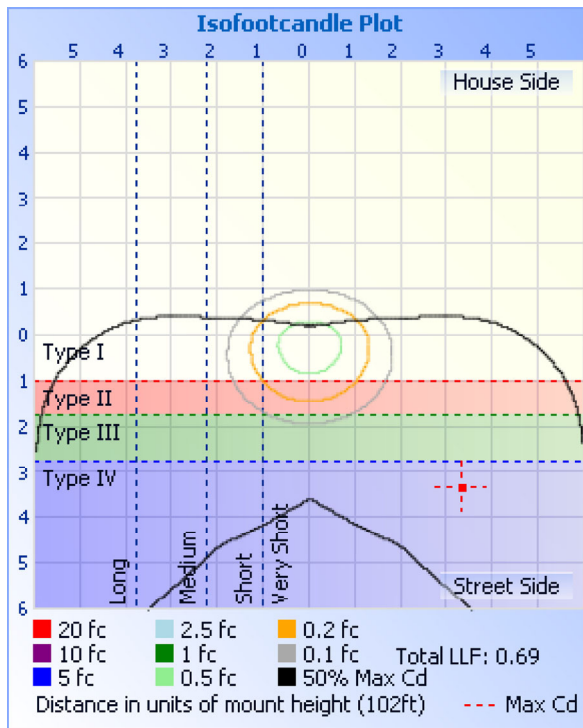
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	56,846.0	152.7	158.6
Beam (50%):	78.7%	45,454.9	123.1	103.1
Total:	99.9%	57,737.6		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	10,250.8	17.7%	17.7%
0-40	17,581.1	30.4%	30.4%
0-60	35,773.5	61.9%	61.9%
60-90	21,784.3	37.7%	37.7%
70-100	11,877.9	20.6%	20.6%
90-120	123.8	0.2%	0.2%
0-90	57,557.8	99.6%	99.6%
90-180	216.8	0.4%	0.4%
0-180	57,774.6	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,179.3	2.0%	90-100	51.7	0.1%
10-20	3,485.3	6.0%	100-110	38.9	0.1%
20-30	5,586.1	9.7%	110-120	33.2	0.1%
30-40	7,330.3	12.7%	120-130	24.9	0%
40-50	8,652.9	15.0%	130-140	21.8	0%
50-60	9,539.4	16.5%	140-150	19.3	0%
60-70	9,958.1	17.2%	150-160	14.7	0%
70-80	9,112.5	15.8%	160-170	9.2	0%
80-90	2,713.7	4.7%	170-180	3.1	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	44.3 fc	42.1 ft	61.7 ft
33.3ft	11.1 fc	84.0 ft	122.9 ft
50.0ft	4.94 fc	126.1 ft	184.6 ft
66.7ft	2.78 fc	168.2 ft	246.2 ft
83.3ft	1.78 fc	210.0 ft	307.5 ft
100.0ft	1.24 fc	252.1 ft	369.2 ft

Vert. Spread: 103.1°
Horiz. Spread: 123.1°

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	1.05	.99	.94	.89	1.02	.97	.92	.78	.92	.88	.84	.88	.85	.81	.84	.82	.79	.77
2	.94	.83	.75	.68	.91	.81	.73	.61	.77	.71	.65	.74	.68	.64	.71	.66	.62	.59
3	.84	.71	.61	.54	.81	.70	.60	.49	.66	.58	.52	.63	.57	.51	.61	.55	.50	.47

4	.76	.62	.52	.44	.73	.60	.51	.41	.58	.49	.43	.55	.48	.42	.53	.47	.41	.39
5	.69	.55	.44	.37	.67	.53	.44	.35	.51	.42	.36	.49	.41	.35	.47	.40	.35	.32
6	.64	.49	.38	.31	.61	.48	.38	.30	.46	.37	.31	.44	.36	.30	.42	.35	.30	.28
7	.59	.44	.34	.27	.57	.43	.34	.26	.41	.33	.27	.40	.32	.26	.38	.31	.26	.24
8	.54	.40	.30	.24	.53	.39	.30	.23	.37	.29	.24	.36	.29	.23	.35	.28	.23	.21
9	.51	.36	.27	.21	.49	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.19
10	.47	.33	.25	.19	.46	.33	.24	.18	.32	.24	.19	.31	.24	.19	.30	.23	.19	.17

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	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356	12356
1	12549	12550	12492	12428	12354	12268	12217	12158	12162	12180	12214	12282	12360	12432	12506	12536	12549
2	12739	12729	12625	12502	12358	12192	12073	11973	11948	11999	12077	12213	12365	12515	12652	12719	12739
3	12946	12905	12763	12576	12358	12116	11937	11787	11749	11822	11943	12143	12370	12595	12792	12913	12946
4	13139	13077	12898	12654	12362	12042	11798	11599	11549	11618	11807	12076	12386	12686	12934	13095	13139
5	13326	13252	13034	12729	12365	11970	11644	11411	11345	11451	11670	12008	12394	12764	13076	13266	13326
6	13509	13419	13179	12812	12374	11901	11505	11228	11143	11252	11537	11946	12405	12859	13221	13441	13509
7	13692	13603	13314	12889	12377	11830	11364	11022	10924	11064	11388	11874	12418	12944	13368	13616	13692
8	13876	13773	13440	12967	12384	11762	11208	10835	10717	10859	11256	11813	12435	13027	13512	13787	13876
9	14056	13942	13569	13039	12390	11696	11079	10646	10504	10667	11118	11753	12453	13117	13649	13960	14056
10	14251	14098	13689	13115	12400	11627	10924	10451	10303	10476	10982	11689	12469	13198	13787	14143	14251
11	14420	14255	13810	13185	12408	11557	10783	10256	10093	10283	10842	11629	12485	13280	13926	14302	14420
12	14578	14415	13943	13267	12418	11492	10645	10065	9887	10098	10690	11563	12504	13371	14057	14453	14578
13	14731	14559	14060	13338	12430	11418	10509	9864	9678	9910	10557	11501	12526	13452	14199	14603	14731
14	14871	14698	14177	13412	12442	11354	10359	9681	9450	9703	10418	11438	12543	13533	14328	14746	14871
15	15009	14828	14290	13485	12464	11289	10233	9491	9237	9532	10276	11374	12560	13611	14449	14879	15009
16	15130	14947	14397	13551	12481	11234	10085	9303	9024	9327	10136	11310	12582	13687	14559	15013	15130
17	15243	15051	14498	13622	12499	11172	9943	9107	8844	9129	9983	11249	12598	13769	14661	15130	15243
18	15353	15144	14601	13694	12519	11108	9809	8910	8634	8917	9842	11187	12621	13835	14760	15233	15353
19	15458	15243	14682	13761	12537	11046	9676	8734	8412	8769	9707	11126	12647	13911	14855	15326	15458
20	15557	15330	14755	13821	12559	10991	9528	8548	8214	8582	9572	11072	12668	13982	14946	15420	15557
21	15645	15418	14825	13885	12575	10924	9387	8366	8017	8393	9431	11014	12696	14055	15021	15519	15645
22	15737	15501	14891	13943	12595	10868	9252	8185	7822	8196	9293	10957	12712	14131	15087	15616	15737
23	15823	15578	14959	14002	12611	10800	9110	7998	7623	8005	9137	10901	12731	14194	15151	15695	15823
24	15901	15648	15008	14046	12628	10738	8958	7821	7434	7824	8992	10841	12748	14254	15206	15768	15901
25	15971	15711	15054	14090	12643	10678	8875	7631	7234	7651	8899	10782	12763	14307	15274	15834	15971
26	16033	15772	15096	14143	12658	10619	8706	7464	7053	7463	8722	10719	12779	14366	15324	15904	16033
27	16091	15823	15147	14184	12669	10549	8567	7296	6869	7292	8578	10657	12783	14414	15373	15983	16091
28	16157	15864	15198	14214	12681	10480	8437	7129	6698	7127	8447	10591	12796	14461	15417	16040	16157
29	16214	15908	15236	14240	12692	10424	8305	6959	6523	6956	8312	10531	12808	14498	15458	16089	16214
30	16256	15951	15268	14262	12690	10360	8168	6782	6347	6791	8174	10463	12817	14536	15512	16130	16256
31	16294	15975	15301	14284	12691	10292	8034	6623	6178	6630	8032	10402	12832	14561	15548	16172	16294
32	16335	16005	15326	14304	12686	10222	7888	6471	6028	6459	7890	10341	12845	14580	15575	16205	16335
33	16356	16024	15340	14316	12685	10153	7757	6316	5871	6304	7763	10270	12853	14601	15599	16233	16356
34	16372	16038	15355	14329	12685	10086	7631	6168	5724	6156	7636	10198	12857	14617	15628	16257	16372
35	16367	16046	15373	14348	12677	10012	7499	6007	5579	6011	7501	10130	12871	14631	15650	16271	16367
36	16376	16055	15393	14357	12665	9940	7366	5869	5427	5866	7373	10061	12879	14639	15664	16277	16376
37	16400	16060	15402	14360	12655	9873	7228	5731	5287	5710	7227	9988	12879	14646	15668	16277	16400
38	16404	16051	15418	14366	12644	9793	7102	5598	5155	5575	7097	9907	12876	14657	15677	16277	16404
39	16376	16047	15423	14374	12642	9714	6970	5448	5025	5442	6966	9830	12873	14665	15691	16277	16376
40	16360	16042	15420	14372	12638	9639	6844	5318	4898	5308	6840	9748	12865	14667	15694	16277	16360
41	16366	16026	15417	14382	12623	9557	6719	5191	4761	5180	6718	9668	12852	14684	15703	16278	16366
42	16384	16017	15422	14392	12617	9477	6592	5066	4644	5046	6590	9592	12835	14691	15705	16277	16384
43	16367	16007	15431	14401	12609	9392	6455	4946	4527	4926	6457	9502	12830	14698	15701	16277	16367
44	16342	15992	15446	14411	12589	9311	6331	4821	4403	4807	6338	9416	12822	14709	15692	16270	16342
45	16341	15984	15437	14415	12571	9219	6192	4701	4290	4688	6213	9331	12811	14721	15712	16277	16341
46	16335	15975	15432	14427	12556	9134	6069	4587	4183	4565	6089	9247	12797	14734	15717	16277	16335

47	16313	15955	15446	14445	12541	9034	5939	4472	4076	4449	5948	9155	12780	14751	15712	16277	16313
48	16285	15944	15458	14469	12528	8903	5814	4360	3965	4337	5832	9051	12758	14780	15724	16258	16285
49	16265	15931	15484	14490	12524	8874	5694	4239	3851	4225	5706	8925	12745	14805	15738	16248	16265
50	16215	15908	15499	14505	12509	8754	5554	4130	3743	4106	5584	8895	12731	14819	15744	16244	16215
51	16159	15877	15510	14525	12480	8649	5432	4020	3642	3999	5451	8779	12712	14842	15765	16234	16159
52	16113	15830	15506	14542	12451	8530	5305	3914	3539	3888	5326	8676	12686	14867	15787	16185	16113
53	16068	15792	15510	14554	12425	8417	5179	3790	3437	3779	5205	8566	12668	14897	15790	16144	16068
54	16001	15757	15521	14578	12394	8298	5053	3678	3330	3671	5083	8460	12632	14912	15799	16100	16001
55	15945	15711	15535	14600	12346	8181	4919	3571	3210	3554	4963	8350	12605	14937	15820	16071	15945
56	15871	15673	15543	14634	12293	8044	4793	3457	3103	3440	4827	8231	12570	14970	15837	16030	15871
57	15791	15638	15552	14675	12244	7912	4669	3331	2992	3328	4703	8097	12537	15014	15853	15985	15791
58	15710	15590	15571	14732	12211	7775	4539	3224	2871	3214	4577	7973	12496	15048	15883	15944	15710
59	15618	15549	15597	14789	12184	7637	4414	3089	2734	3096	4450	7842	12452	15089	15914	15906	15618
60	15523	15508	15639	14854	12150	7490	4277	2962	2603	2968	4320	7698	12410	15150	15959	15861	15523
61	15438	15458	15694	14929	12114	7335	4139	2836	2474	2834	4180	7549	12377	15212	16008	15806	15438
62	15314	15413	15760	15012	12078	7194	4006	2686	2322	2701	4050	7405	12348	15288	16070	15757	15314
63	15186	15362	15837	15143	12049	7050	3855	2548	2152	2560	3920	7257	12308	15382	16146	15705	15186
64	15032	15310	15937	15273	12029	6906	3727	2405	1950	2421	3782	7104	12273	15486	16238	15640	15032
65	14854	15248	16044	15430	12027	6760	3569	2254	1766	2277	3629	6956	12247	15599	16337	15584	14854
66	14642	15189	16162	15615	12013	6604	3418	2060	1608	2108	3478	6798	12225	15749	16460	15531	14642
67	14403	15107	16297	15835	11992	6431	3270	1850	1468	1915	3334	6633	12197	15937	16597	15449	14403
68	14065	15009	16481	16065	11955	6268	3116	1681	1335	1738	3180	6474	12166	16122	16744	15349	14065
69	13707	14881	16699	16301	11893	6095	2945	1519	1224	1564	3015	6294	12147	16315	16927	15234	13707
70	13229	14715	16917	16507	11789	5937	2779	1367	1119	1415	2852	6140	12092	16518	17125	15085	13229
71	12647	14503	17173	16755	11658	5748	2619	1221	1019	1277	2694	5957	11999	16719	17346	14893	12647
72	11920	14229	17458	16968	11466	5551	2448	1098	930	1154	2526	5777	11906	16929	17574	14639	11920
73	11070	13782	17787	17138	11173	5343	2263	990	853	1038	2349	5597	11754	17155	17855	14282	11070
74	10088	13224	18160	17097	10803	5060	2068	895	793	935	2181	5376	11553	17311	18163	13791	10088
75	8968	12466	18527	16708	10319	4796	1877	803	730	851	1998	5157	11275	17295	18516	13141	8968
76	7790	11557	18852	15962	9640	4508	1667	721	666	770	1809	4893	10864	16996	18867	12360	7790
77	6544	10627	19081	14852	8857	4241	1457	651	612	699	1625	4633	10324	16321	19135	11384	6544
78	5243	9415	19137	13411	7838	3952	1225	581	554	620	1408	4356	9613	15273	19388	10378	5243
79	3877	8306	18863	11511	6928	3616	1010	512	498	552	1217	4059	8735	13879	19427	9118	3877
80	2923	7008	18169	9667	5996	3129	783	432	429	485	1028	3772	7872	12179	19156	7917	2923
81	2162	5699	16866	7683	5001	2452	551	370	368	407	800	3424	6937	10128	18418	6557	2162
82	1619	4513	15243	6164	4075	1654	396	299	304	338	601	2833	6003	8391	17203	5242	1619
83	1271	3448	12276	4627	3124	983	283	241	245	277	425	2096	5044	6565	15346	4184	1271
84	960	2594	8888	3382	2198	491	197	182	193	213	313	1282	4107	5155	12604	3116	960
85	728	1929	6060	2329	1399	256	136	132	141	161	228	757	3150	3868	9246	2381	728
86	554	1353	3818	1407	754	137	88	98	98	120	149	408	2219	2779	6559	1727	554
87	395	873	2083	709	285	72	54	38	50	77	98	215	1454	1858	4158	1171	395
88	270	464	730	293	83	35	39	25	22	37	68	120	752	1030	2429	722	270
89	154	188	174	103	57	42	29	25	19	18	32	68	337	511	1128	385	154
90	62	81	111	85	55	45	36	23	18	21	29	48	95	188	305	132	62
91	58	71	97	82	44	19	32	25	11	22	26	43	64	93	120	79	58
92	50	63	86	67	47	36	36	24	18	20	24	35	54	86	108	72	50
93	49	58	82	62	43	38	37	24	22	19	33	36	56	78	96	57	49
94	45	56	72	67	37	30	33	31	18	13	25	44	53	67	89	61	45
95	46	53	65	62	40	36	31	28	21	22	33	43	49	69	84	52	46

96	42	48	59	60	36	40	37	32	23	24	33	46	45	64	73	51	42
97	42	47	56	53	35	31	36	29	17	24	34	38	41	56	64	46	42
98	40	40	54	50	36	36	36	27	21	25	30	47	45	53	62	49	40
99	37	40	41	50	30	37	41	33	28	15	33	45	41	49	51	43	37
100	37	34	47	46	31	36	41	30	26	28	31	48	34	45	49	42	37
101	38	35	42	40	33	37	43	32	31	25	36	39	28	37	51	40	38
102	39	35	31	45	33	41	42	34	33	20	33	40	35	42	50	40	39
103	31	28	39	38	32	35	42	37	36	26	35	49	37	40	45	34	31
104	31	31	37	39	32	39	42	32	37	29	37	46	41	36	44	32	31
105	38	30	33	43	34	35	45	37	42	27	42	48	36	30	40	32	38
106	44	28	33	42	27	35	40	33	43	29	35	41	29	35	37	28	44
107	54	26	25	39	29	25	37	37	57	29	39	45	29	32	39	23	54
108	88	23	25	38	33	35	41	40	60	27	30	39	34	32	36	29	88
109	121	21	24	39	29	32	41	36	56	15	38	40	33	27	24	28	121
110	135	20	28	31	27	32	40	34	58	29	32	27	31	27	30	23	135
111	130	19	22	35	30	24	36	35	56	28	33	35	39	27	32	25	130
112	123	20	19	36	30	31	36	39	56	30	33	42	28	23	32	24	123
113	105	22	18	25	27	29	33	37	59	32	30	36	35	21	28	23	105
114	101	26	22	30	26	25	27	31	54	32	32	35	35	21	25	21	101
115	86	23	18	29	26	17	36	33	50	27	25	36	28	22	27	22	86
116	81	22	21	28	25	23	39	36	56	26	23	38	30	21	24	24	81
117	75	24	18	27	28	28	36	32	55	31	35	33	29	21	22	23	75
118	66	18	13	23	25	29	34	33	55	31	32	32	31	15	25	23	66
119	66	23	15	26	27	27	35	34	48	29	19	32	28	21	21	20	66
120	63	22	21	21	27	23	31	35	45	33	29	33	23	18	23	21	63
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB] Belling Test Laboratory Co., LTD
[ISSUE DATE] 2018-8-21 09:18
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-450-T4-200V
[_TOTALLUMINAIRELUMENS] 57774.6
[TESTINST] GPM-3000
[TESTDIST] 14.040 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.