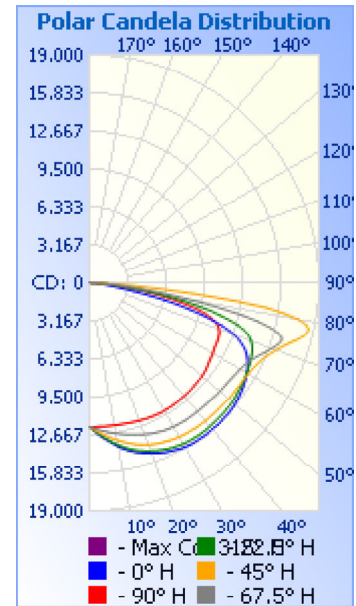


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 450W T4 - 480V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-450-T4-480V  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 55976.5  
**Max Candela:** 18,822.2 at Horizontal: 315°, Vertical: 79°  
**Input Wattage:** 448.87  
**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:	295.9
Max Cd, 80 to <90 Deg:	18,559.0
	Lumens % Lamp
Downward Street Side:	39,465.9 70.5%
Downward House Side:	16,300.5 29.1%
Downward Total:	55,766.4 99.6%
Upward Street Side:	107.7 0.2%
Upward House Side:	102.4 0.2%
Upward Total:	210.1 0.4%
Total Lumens:	55,976.5 100%

### Flood Summary

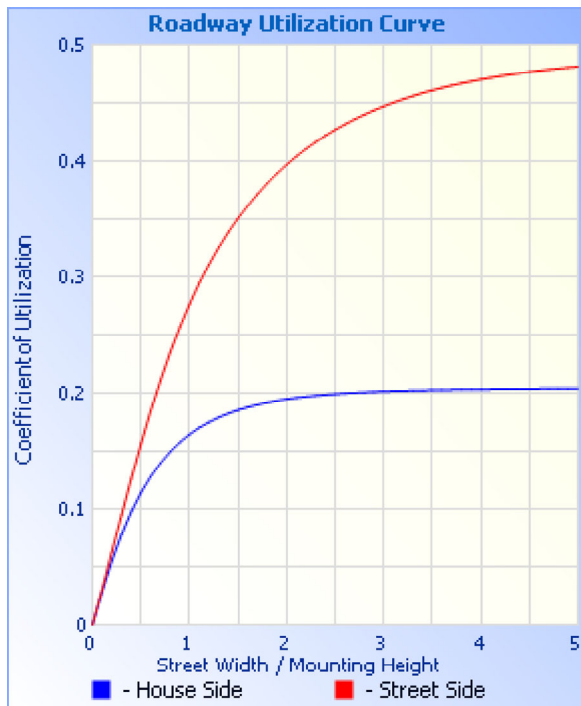
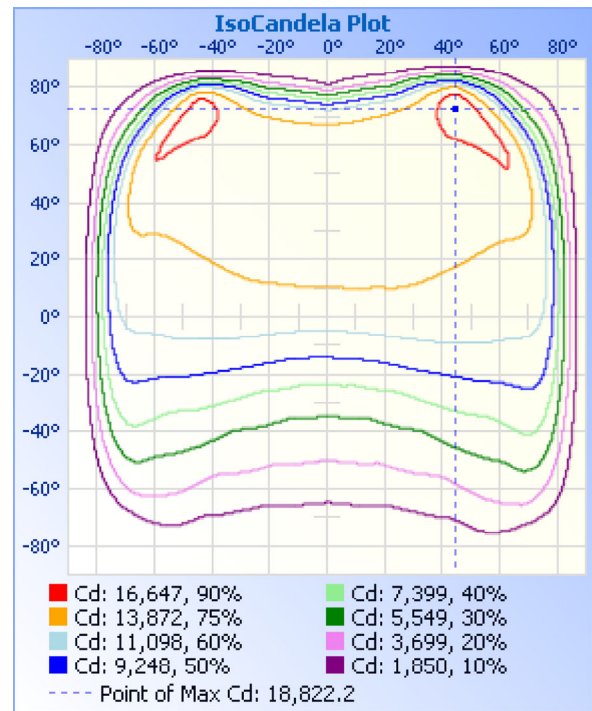
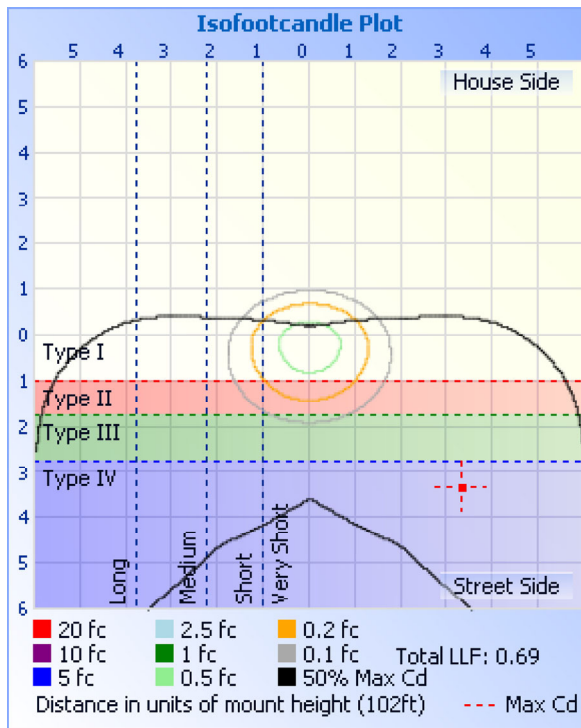
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	55,075.5	152.7	158.6
Beam (50%):	78.7%	44,039.2	123.1	103.1
Total:	99.9%	55,939.2		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	9,931.5	17.7%	17.7%
0-40	17,033.5	30.4%	30.4%
0-60	34,659.3	61.9%	61.9%
60-90	21,105.8	37.7%	37.7%
70-100	11,507.9	20.6%	20.6%
90-120	120.0	0.2%	0.2%
0-90	55,765.1	99.6%	99.6%
90-180	210.1	0.4%	0.4%
0-180	55,975.1	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,142.6	2.0%	90-100	50.1	0.1%
10-20	3,376.8	6.0%	100-110	37.7	0.1%
20-30	5,412.1	9.7%	110-120	32.2	0.1%
30-40	7,102.0	12.7%	120-130	24.1	0%
40-50	8,383.4	15.0%	130-140	21.1	0%
50-60	9,242.3	16.5%	140-150	18.7	0%
60-70	9,647.9	17.2%	150-160	14.3	0%
70-80	8,828.7	15.8%	160-170	8.9	0%
80-90	2,629.2	4.7%	170-180	3.0	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
16.7ft	42.9 fc	42.1 ft	61.7 ft
33.3ft	10.8 fc	84.0 ft	122.9 ft
50.0ft	4.79 fc	126.1 ft	184.6 ft
66.7ft	2.69 fc	168.2 ft	246.2 ft
83.3ft	1.73 fc	210.0 ft	307.5 ft
100.0ft	1.20 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	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971	11971
1	12158	12160	12103	12041	11970	11886	11836	11779	11783	11801	11834	11899	11975	12045	12117	12145	12158
2	12342	12332	12231	12112	11973	11812	11697	11600	11576	11625	11701	11833	11980	12125	12258	12323	12342
3	12543	12503	12366	12185	11974	11738	11565	11420	11383	11454	11571	11764	11985	12203	12394	12511	12543
4	12729	12670	12497	12260	11977	11666	11431	11238	11189	11256	11439	11700	12000	12290	12531	12687	12729
5	12911	12839	12628	12332	11979	11597	11281	11056	10991	11095	11306	11634	12008	12366	12668	12853	12911
6	13088	13001	12768	12413	11988	11530	11147	10878	10796	10902	11177	11574	12018	12458	12809	13022	13088
7	13265	13180	12899	12488	11991	11462	11010	10678	10583	10720	11034	11505	12031	12541	12952	13192	13265
8	13444	13344	13021	12563	11998	11396	10859	10497	10383	10521	10906	11445	12047	12621	13091	13358	13444
9	13618	13508	13146	12633	12004	11331	10734	10314	10177	10335	10772	11386	12065	12708	13224	13525	13618
10	13807	13659	13263	12707	12014	11265	10584	10126	9982	10150	10640	11325	12081	12787	13358	13702	13807
11	13971	13811	13379	12774	12022	11198	10447	9937	9779	9962	10504	11267	12096	12866	13492	13856	13971
12	14124	13966	13509	12854	12031	11134	10313	9752	9579	9784	10357	11202	12114	12954	13619	14003	14124
13	14272	14106	13622	12923	12042	11063	10182	9557	9376	9601	10228	11142	12136	13033	13756	14148	14272
14	14408	14240	13735	12994	12054	11000	10037	9380	9155	9401	10094	11082	12153	13111	13881	14287	14408
15	14542	14366	13845	13065	12076	10937	9914	9195	8949	9235	9956	11019	12169	13187	13999	14416	14542
16	14659	14482	13949	13129	12092	10884	9771	9013	8743	9036	9820	10958	12190	13261	14105	14546	14659
17	14768	14582	14046	13198	12110	10824	9634	8823	8569	8845	9672	10899	12206	13340	14205	14659	14768
18	14875	14672	14146	13267	12129	10762	9503	8632	8365	8639	9535	10839	12228	13404	14300	14758	14875
19	14977	14768	14225	13332	12147	10702	9375	8462	8150	8496	9404	10779	12253	13477	14392	14849	14977
20	15072	14852	14296	13391	12168	10649	9231	8282	7958	8315	9274	10727	12273	13547	14480	14940	15072
21	15158	14938	14363	13453	12183	10584	9095	8105	7768	8131	9138	10671	12300	13617	14553	15036	15158
22	15247	15018	14428	13509	12203	10530	8964	7930	7579	7941	9004	10615	12316	13691	14617	15130	15247
23	15330	15093	14493	13565	12218	10463	8826	7749	7385	7756	8852	10561	12334	13752	14679	15206	15330
24	15406	15161	14540	13608	12235	10403	8679	7578	7202	7580	8712	10504	12351	13810	14733	15277	15406
25	15473	15222	14585	13651	12249	10345	8598	7394	7009	7413	8621	10446	12365	13861	14799	15341	15473
26	15534	15281	14626	13703	12264	10288	8435	7232	6834	7231	8450	10385	12381	13918	14846	15408	15534
27	15590	15330	14675	13742	12275	10220	8300	7068	6655	7065	8310	10325	12385	13965	14894	15485	15590
28	15654	15370	14724	13772	12286	10154	8174	6907	6489	6905	8184	10261	12397	14011	14937	15540	15654
29	15709	15413	14761	13796	12296	10100	8046	6742	6320	6739	8053	10203	12409	14047	14976	15588	15709
30	15749	15454	14792	13818	12295	10038	7913	6571	6150	6580	7920	10137	12418	14083	15029	15627	15749
31	15786	15477	14825	13839	12296	9972	7784	6416	5986	6423	7782	10078	12433	14108	15064	15669	15786
32	15826	15507	14849	13859	12291	9903	7643	6270	5840	6257	7644	10018	12445	14125	15090	15700	15826
33	15847	15525	14862	13870	12290	9837	7516	6119	5689	6108	7521	9950	12452	14147	15113	15727	15847
34	15862	15538	14877	13883	12290	9772	7394	5976	5546	5965	7398	9880	12456	14161	15141	15751	15862
35	15857	15546	14894	13901	12283	9700	7265	5820	5405	5823	7267	9815	12470	14175	15162	15764	15857
36	15866	15555	14913	13910	12271	9630	7136	5686	5258	5684	7143	9747	12478	14183	15177	15770	15866
37	15889	15560	14922	13913	12261	9566	7003	5553	5122	5533	7002	9676	12478	14190	15180	15770	15889
38	15893	15551	14937	13918	12250	9488	6881	5424	4994	5401	6876	9599	12475	14200	15188	15770	15893
39	15866	15547	14943	13926	12248	9411	6753	5279	4869	5272	6749	9524	12472	14208	15203	15770	15866
40	15850	15542	14940	13924	12245	9339	6631	5152	4745	5143	6627	9444	12465	14210	15205	15770	15850
41	15856	15527	14937	13934	12229	9260	6509	5029	4613	5019	6508	9367	12452	14226	15213	15771	15856
42	15873	15519	14942	13944	12224	9182	6386	4908	4500	4889	6385	9294	12435	14233	15216	15770	15873
43	15858	15508	14950	13953	12217	9099	6254	4792	4386	4773	6255	9206	12430	14240	15212	15770	15858
44	15833	15494	14965	13962	12197	9021	6134	4670	4266	4658	6141	9123	12422	14251	15204	15764	15833
45	15832	15487	14956	13966	12180	8931	6000	4555	4156	4542	6019	9041	12412	14262	15222	15770	15832
46	15826	15477	14951	13978	12165	8849	5880	4444	4053	4423	5899	8959	12398	14275	15227	15770	15826

47	15805	15458	14965	13995	12150	8752	5754	4333	3949	4311	5763	8870	12382	14292	15222	15770	15805
48	15778	15447	14977	14019	12138	8626	5633	4224	3842	4202	5650	8769	12361	14320	15234	15752	15778
49	15759	15434	15002	14038	12134	8597	5517	4107	3731	4094	5529	8647	12348	14344	15248	15742	15759
50	15710	15413	15016	14053	12119	8481	5381	4001	3626	3978	5410	8618	12335	14358	15253	15738	15710
51	15656	15383	15027	14073	12092	8380	5262	3895	3529	3874	5281	8506	12316	14380	15274	15729	15656
52	15611	15337	15023	14089	12063	8265	5140	3792	3429	3767	5160	8405	12291	14404	15295	15681	15611
53	15568	15300	15027	14101	12038	8155	5018	3672	3330	3662	5043	8299	12273	14433	15299	15641	15568
54	15503	15266	15038	14124	12008	8040	4896	3563	3226	3557	4924	8196	12239	14447	15307	15599	15503
55	15448	15221	15052	14146	11962	7927	4766	3460	3110	3443	4808	8090	12212	14472	15327	15570	15448
56	15377	15185	15059	14178	11911	7793	4644	3350	3006	3333	4677	7975	12179	14504	15343	15531	15377
57	15299	15151	15067	14218	11862	7666	4524	3227	2899	3225	4557	7845	12146	14546	15359	15487	15299
58	15220	15104	15086	14273	11831	7533	4398	3123	2782	3114	4435	7725	12107	14580	15388	15447	15220
59	15132	15065	15111	14328	11805	7399	4277	2992	2649	3000	4311	7597	12064	14619	15419	15411	15132
60	15040	15025	15152	14392	11771	7257	4144	2870	2522	2875	4185	7458	12024	14678	15462	15367	15040
61	14957	14976	15206	14464	11736	7107	4010	2747	2397	2746	4050	7314	11992	14738	15509	15314	14957
62	14837	14933	15269	14545	11701	6970	3881	2602	2250	2617	3924	7175	11964	14811	15569	15266	14837
63	14713	14884	15344	14672	11673	6830	3735	2468	2085	2480	3798	7031	11925	14903	15643	15215	14713
64	14564	14833	15440	14798	11654	6691	3611	2330	1889	2346	3664	6883	11891	15004	15732	15153	14564
65	14391	14773	15544	14950	11653	6549	3458	2184	1711	2206	3516	6740	11865	15113	15828	15098	14391
66	14186	14716	15659	15129	11639	6398	3311	1996	1558	2042	3370	6586	11844	15259	15948	15047	14186
67	13954	14637	15789	15342	11619	6230	3168	1792	1422	1856	3230	6426	11817	15441	16080	14968	13954
68	13627	14541	15967	15564	11583	6072	3019	1629	1294	1683	3081	6272	11787	15620	16223	14871	13627
69	13280	14418	16179	15793	11523	5905	2854	1471	1186	1516	2921	6098	11769	15807	16400	14759	13280
70	12817	14256	16390	15993	11422	5752	2692	1324	1085	1371	2764	5949	11716	16004	16592	14615	12817
71	12253	14051	16638	16233	11295	5569	2538	1183	987	1237	2610	5771	11625	16198	16806	14429	12253
72	11548	13786	16915	16439	11109	5379	2372	1064	901	1118	2448	5598	11535	16402	17026	14183	11548
73	10725	13353	17233	16605	10825	5177	2193	959	827	1006	2276	5423	11387	16621	17299	13837	10725
74	9774	12812	17594	16565	10467	4903	2004	867	768	906	2113	5209	11193	16772	17597	13361	9774
75	8689	12078	17950	16187	9998	4646	1819	778	707	824	1936	4996	10924	16756	17939	12732	8689
76	7548	11197	18265	15465	9340	4367	1615	699	645	746	1753	4740	10526	16466	18279	11975	7548
77	6340	10296	18486	14390	8581	4109	1412	630	593	677	1574	4489	10002	15813	18539	11030	6340
78	5080	9121	18541	12993	7594	3829	1186	563	536	600	1364	4220	9313	14797	18784	10055	5080
79	3756	8048	18276	11153	6712	3503	979	496	482	534	1179	3932	8463	13447	18822	8834	3756
80	2832	6790	17604	9366	5809	3032	759	419	415	470	996	3654	7627	11799	18559	7670	2832
81	2094	5522	16341	7444	4845	2376	533	358	357	394	775	3317	6721	9812	17845	6352	2094
82	1569	4373	14768	5972	3948	1603	384	290	295	328	582	2745	5816	8130	16667	5078	1569
83	1231	3340	11893	4483	3026	953	274	234	237	269	411	2031	4887	6360	14868	4054	1231
84	930	2513	8611	3277	2130	476	191	176	187	207	304	1242	3979	4994	12212	3019	930
85	705	1869	5871	2257	1356	248	132	128	136	156	220	734	3051	3747	8958	2307	705
86	536	1311	3699	1363	730	132	86	95	95	116	145	395	2150	2693	6355	1673	536
87	383	846	2018	687	276	70	53	37	48	75	95	209	1409	1800	4029	1134	383
88	261	449	707	284	80	33	38	25	21	36	66	116	728	997	2354	700	261
89	149	182	169	99	55	40	28	24	18	18	31	66	327	495	1093	373	149
90	60	79	108	83	54	43	34	23	18	21	29	47	92	182	296	128	60
91	56	68	94	79	43	18	31	24	11	21	25	42	62	90	116	76	56
92	48	61	83	65	45	35	35	24	18	20	23	34	52	83	104	70	48
93	48	56	80	60	42	37	36	23	21	19	32	35	55	76	93	55	48
94	43	54	69	65	36	29	32	30	17	12	24	42	51	65	87	60	43
95	44	51	63	60	38	35	30	27	20	21	32	42	48	67	81	50	44

96	41	46	57	59	35	38	36	31	22	23	32	45	44	62	71	49	41
97	40	45	55	51	34	30	35	28	17	23	33	37	40	54	62	44	40
98	38	38	52	49	35	35	35	26	21	25	29	45	44	51	60	48	38
99	36	39	40	48	29	36	40	32	27	14	32	44	39	48	50	42	36
100	36	33	45	44	30	35	39	29	25	27	30	47	33	44	47	41	36
101	37	33	40	39	32	36	42	31	30	24	35	38	27	36	50	38	37
102	38	34	30	44	32	40	41	33	32	20	32	39	33	41	49	38	38
103	30	27	38	37	31	34	41	36	35	25	34	47	36	39	43	33	30
104	30	30	36	37	31	38	40	31	36	28	36	45	39	35	43	31	30
105	37	29	32	42	33	34	44	36	41	26	41	46	34	29	39	31	37
106	43	27	32	41	26	34	38	32	42	29	34	40	28	34	36	27	43
107	52	25	24	38	28	25	36	36	55	29	37	44	29	31	38	23	52
108	85	22	24	37	32	33	40	38	58	26	29	38	33	31	34	29	85
109	117	20	23	38	29	31	40	35	54	14	37	39	32	26	23	27	117
110	131	19	27	30	26	31	39	33	56	28	31	26	30	26	29	22	131
111	126	18	21	34	29	24	35	34	55	27	32	34	37	26	31	24	126
112	119	20	19	35	29	30	35	37	54	29	32	41	27	23	31	24	119
113	102	21	17	25	26	28	32	36	57	31	29	35	34	20	27	22	102
114	98	25	21	29	25	25	26	30	52	31	31	34	34	21	24	20	98
115	83	22	17	28	25	17	35	32	48	26	25	35	27	21	26	21	83
116	78	21	20	28	25	23	38	35	54	25	23	37	29	21	23	23	78
117	73	24	18	26	27	27	35	31	53	30	33	32	29	21	21	22	73
118	64	17	13	23	24	28	33	32	54	30	31	31	30	15	25	23	64
119	64	22	15	25	26	26	33	33	47	29	18	31	27	20	20	19	64
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121	56	19	19	21	22	27	34	37	45	25	29	32	27	22	24	19	56
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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-T4-480V  
[\_TOTALLUMINAIRELUMENS] 55975.1  
[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.