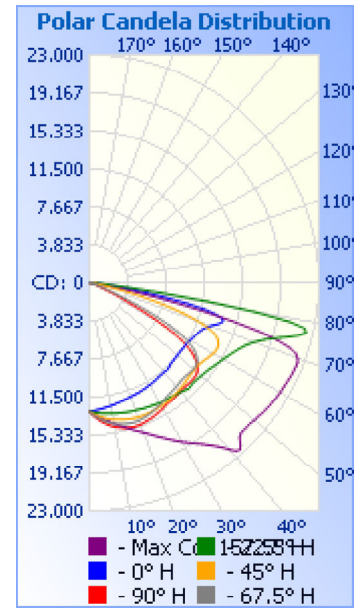


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SBN 400W - 120V  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-SHOEBOX-4000-400 120V  
**Lamp Output:** Total luminaire Lumens: 52946  
**Max Candela:** 22,566.3 at Horizontal: 157.5°, Vertical: 42°  
**Input Wattage:** 390.6  
**Luminous Opening:** Point  
**Test Date:** 2015-12-23  
**Test Lab:** Standard-Tech Co. Ltd  
**Photometry :** Type C  
**Nema Type:** 6 X 7



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	24.6	
Max Cd, 80 to <90 Deg:	16,890.2	
	Lumens	% Lamp
Downward Street Side:	23,504.3	44.4%
Downward House Side:	29,330.2	55.4%
Downward Total:	52,834.5	99.8%
Upward Street Side:	64.4	0.1%
Upward House Side:	50.3	0.1%
Upward Total:	114.7	0.2%
Total Lumens:	52,949.2	100%

### Flood Summary

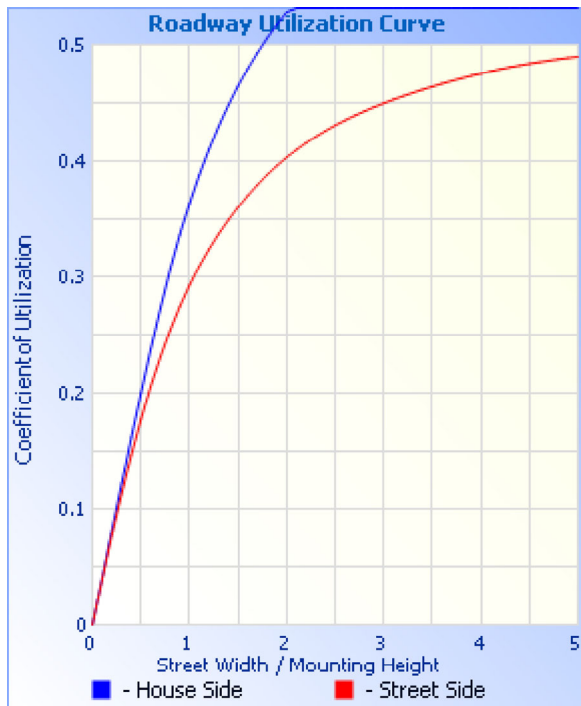
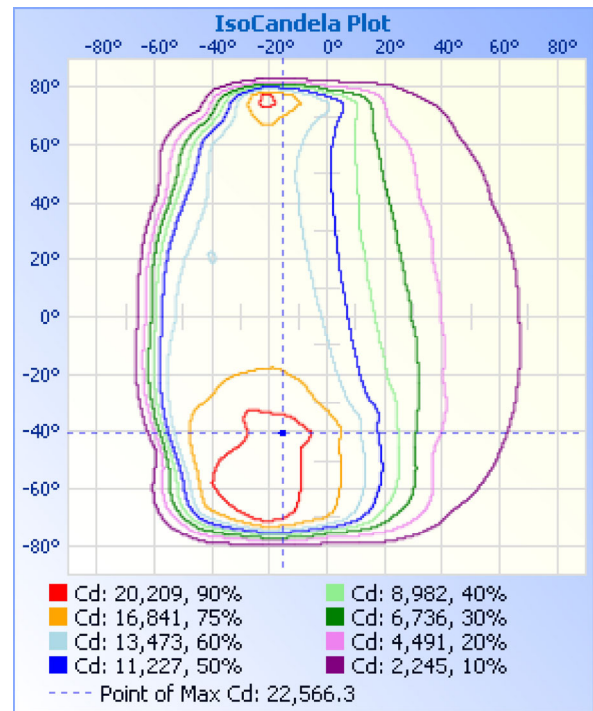
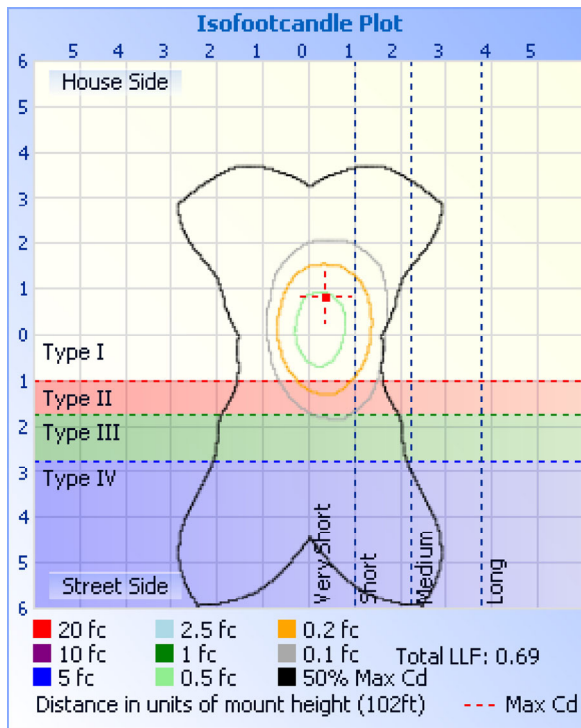
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.8%	51,804.6	124.9	162.8
Beam (50%):	71.9%	38,086.2	72.8	155.1
Total:	99.9%	52,910.1		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	10,500.5	19.8%
0-40	18,119.8	34.2%
0-60	37,089.1	70.1%
60-90	15,742.2	29.7%
70-100	6,557.5	12.4%
90-120	53.5	0.1%
0-90	52,831.3	99.8%
90-180	114.7	0.2%
0-180	52,946.0	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,230.4	2.3%	90-100	13.7	0%
10-20	3,572.3	6.7%	100-110	18.8	0%
20-30	5,697.8	10.8%	110-120	21.0	0%
30-40	7,619.3	14.4%	120-130	20.9	0%
40-50	9,045.5	17.1%	130-140	15.7	0%
50-60	9,923.8	18.7%	140-150	10.6	0%
60-70	9,198.4	17.4%	150-160	7.6	0%
70-80	5,887.6	11.1%	160-170	4.6	0%
80-90	656.2	1.2%	170-180	1.7	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
16.7ft	46.6 fc	151.4 ft	24.6 ft
33.3ft	11.7 fc	301.9 ft	49.1 ft
50.0ft	5.19 fc	453.3 ft	73.7 ft
66.7ft	2.92 fc	604.7 ft	98.3 ft
83.3ft	1.87 fc	755.1 ft	122.8 ft
100.0ft	1.30 fc	906.5 ft	147.4 ft

■ Vert. Spread: 155.1°  
■ Horiz. Spread: 72.8°

**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	1.02	.97	.93	1.05	1.00	.95	.82	.95	.92	.89	.91	.88	.86	.88	.85	.83	.81
2	.96	.87	.79	.73	.93	.85	.78	.66	.81	.75	.70	.78	.73	.69	.75	.71	.67	.65
3	.87	.75	.66	.59	.84	.73	.65	.54	.70	.63	.57	.67	.61	.56	.65	.59	.55	.52

4	.79	.65	.56	.48	.76	.64	.55	.45	.61	.53	.47	.59	.52	.46	.57	.51	.46	.43
5	.72	.58	.48	.40	.69	.56	.47	.38	.54	.46	.40	.52	.45	.39	.50	.44	.39	.36
6	.66	.51	.42	.35	.64	.50	.41	.33	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7	.61	.46	.37	.30	.59	.45	.36	.29	.44	.36	.30	.42	.35	.29	.41	.34	.29	.27
8	.56	.42	.33	.26	.55	.41	.32	.26	.40	.32	.26	.38	.31	.26	.37	.31	.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	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986	12986
1	12933	13028	13114	13180	13213	13220	13183	13120	13034	12944	12847	12789	12746	12746	12780	12849	12933
2	12887	13070	13234	13361	13433	13446	13376	13256	13081	12903	12710	12577	12493	12504	12572	12713	12887
3	12841	13107	13351	13532	13647	13666	13573	13397	13136	12854	12572	12361	12240	12259	12363	12580	12841
4	12798	13145	13463	13689	13846	13871	13762	13531	13195	12807	12424	12136	11990	12000	12163	12446	12798
5	12756	13182	13563	13834	14024	14062	13946	13671	13253	12763	12277	11920	11726	11743	11959	12313	12756
6	12712	13215	13655	13970	14184	14246	14127	13814	13320	12716	12129	11692	11460	11482	11751	12178	12712
7	12663	13250	13743	14091	14338	14420	14304	13952	13392	12672	11980	11457	11193	11229	11536	12044	12663
8	12622	13284	13824	14201	14479	14576	14474	14093	13460	12621	11828	11227	10929	10980	11320	11905	12622
9	12583	13313	13893	14307	14604	14721	14643	14241	13528	12574	11672	10997	10667	10719	11100	11757	12583
10	12544	13350	13956	14393	14716	14863	14803	14390	13601	12531	11520	10767	10408	10456	10880	11614	12544
11	12503	13386	14022	14461	14808	14999	14961	14542	13666	12487	11366	10545	10144	10195	10663	11478	12503
12	12458	13418	14075	14528	14887	15116	15112	14687	13732	12435	11217	10323	9887	9945	10436	11345	12458
13	12410	13444	14130	14580	14961	15230	15265	14840	13814	12396	11067	10108	9642	9700	10202	11199	12410
14	12370	13471	14174	14627	15032	15345	15411	15000	13904	12358	10916	9900	9413	9464	9982	11055	12370
15	12330	13505	14214	14664	15086	15440	15554	15160	13995	12314	10769	9703	9199	9241	9780	10917	12330
16	12284	13538	14256	14699	15125	15536	15700	15323	14089	12264	10626	9514	8992	9028	9577	10776	12284
17	12258	13562	14285	14718	15151	15617	15847	15500	14181	12219	10485	9330	8796	8826	9384	10645	12258
18	12223	13592	14313	14727	15157	15673	15990	15675	14286	12173	10349	9152	8612	8635	9200	10522	12223
19	12191	13621	14340	14721	15154	15724	16126	15852	14412	12129	10219	8986	8436	8452	9023	10390	12191
20	12155	13643	14361	14703	15136	15762	16256	16041	14545	12083	10091	8830	8262	8270	8846	10251	12155
21	12138	13672	14378	14668	15103	15792	16406	16248	14678	12045	9961	8679	8097	8098	8690	10126	12138
22	12115	13707	14386	14626	15058	15819	16556	16454	14815	12018	9836	8532	7933	7929	8533	9998	12115
23	12088	13739	14392	14574	15014	15836	16700	16691	14955	11993	9719	8393	7770	7767	8376	9874	12088
24	12065	13776	14393	14522	14985	15864	16843	16919	15090	11966	9602	8256	7602	7604	8230	9747	12065
25	12041	13802	14387	14477	14946	15889	16990	17154	15255	11945	9491	8112	7436	7436	8090	9612	12041
26	12015	13830	14391	14418	14880	15897	17136	17406	15446	11927	9377	7971	7267	7270	7948	9483	12015
27	11983	13862	14384	14350	14812	15889	17267	17659	15641	11928	9272	7820	7084	7101	7810	9361	11983
28	11957	13897	14363	14272	14758	15890	17415	17919	15858	11915	9162	7673	6902	6933	7670	9249	11957
29	11920	13917	14332	14209	14698	15901	17566	18178	16073	11914	9069	7517	6714	6756	7539	9130	11920
30	11902	13957	14315	14145	14640	15920	17720	18435	16274	11940	8986	7362	6520	6583	7404	9020	11902
31	11879	13995	14303	14077	14573	15946	17878	18690	16507	11979	8911	7217	6316	6403	7272	8908	11879
32	11853	14011	14296	13988	14498	15954	18034	18957	16727	12034	8874	7063	6106	6212	7142	8801	11853
33	11827	14029	14273	13899	14443	15965	18213	19220	16984	12138	8861	6901	5880	6017	7022	8698	11827
34	11791	14044	14255	13822	14408	15999	18406	19490	17272	12309	8817	6713	5645	5817	6899	8603	11791
35	11759	14064	14217	13763	14381	16010	18608	19777	17583	12498	8701	6492	5400	5610	6763	8532	11759
36	11728	14102	14161	13722	14357	16014	18852	20106	17936	12594	8574	6267	5156	5403	6623	8465	11728
37	11709	14145	14124	13678	14324	16019	19091	20464	18346	12611	8427	6024	4916	5183	6496	8365	11709
38	11688	14194	14087	13646	14292	16024	19338	20862	18773	12541	8230	5781	4687	4963	6354	8268	11688
39	11684	14228	14039	13605	14253	16021	19605	21315	19044	12365	8012	5537	4470	4752	6208	8173	11684
40	11684	14277	13993	13565	14219	16009	19888	21875	19119	12193	7802	5287	4276	4537	6067	8079	11684
41	11698	14349	13958	13514	14192	16006	20139	22364	18995	12075	7625	5063	4098	4334	5921	7985	11698
42	11703	14442	13928	13478	14172	15985	20327	22566	18731	11985	7451	4831	3936	4138	5765	7880	11703
43	11660	14551	13888	13446	14168	15980	20355	22203	18503	11928	7279	4629	3792	3964	5605	7772	11660
44	11584	14531	13833	13427	14178	15951	20285	21661	18439	11900	7093	4444	3662	3806	5438	7692	11584
45	11519	14447	13781	13431	14187	15904	20149	21440	18428	11868	6897	4279	3547	3663	5262	7600	11519
46	11479	14433	13750	13446	14193	15859	19976	21386	18445	11843	6694	4136	3445	3535	5086	7512	11479

47	11468	14457	13714	13470	14189	15844	19832	21422	18490	11825	6476	4000	3353	3417	4908	7438	11468
48	11457	14492	13688	13496	14178	15855	19765	21433	18533	11807	6249	3878	3267	3313	4727	7353	11457
49	11437	14536	13660	13526	14141	15877	19741	21465	18558	11768	6014	3770	3188	3216	4546	7265	11437
50	11434	14577	13659	13557	14061	15928	19755	21525	18617	11741	5780	3664	3117	3129	4368	7179	11434
51	11428	14615	13656	13565	13940	15987	19786	21592	18637	11697	5535	3570	3054	3044	4191	7093	11428
52	11424	14672	13680	13540	13754	16024	19823	21641	18653	11638	5300	3483	2998	2966	4025	7012	11424
53	11430	14741	13712	13471	13503	16061	19882	21729	18669	11573	5079	3402	2959	2893	3867	6930	11430
54	11430	14817	13765	13345	13166	16077	19948	21781	18657	11510	4871	3326	2934	2819	3726	6843	11430
55	11440	14893	13834	13154	12726	16051	20024	21831	18649	11407	4688	3257	2914	2750	3594	6756	11440
56	11457	14998	13910	12896	12220	15959	20089	21883	18641	11309	4524	3195	2891	2681	3470	6660	11457
57	11475	15085	14001	12560	11594	15805	20181	21912	18619	11178	4377	3133	2855	2617	3361	6561	11475
58	11520	15196	14101	12125	10822	15565	20264	21969	18581	11037	4237	3072	2796	2558	3259	6466	11520
59	11560	15309	14192	11576	9882	15245	20350	22016	18521	10854	4109	3018	2729	2508	3164	6358	11560
60	11607	15430	14285	10901	8722	14777	20424	22054	18457	10683	3985	2970	2663	2462	3078	6241	11607
61	11670	15551	14356	10072	7333	14168	20483	22083	18399	10481	3865	2924	2600	2411	2997	6097	11670
62	11747	15694	14388	9080	5931	13371	20535	22109	18330	10255	3753	2878	2543	2367	2920	5944	11747
63	11824	15849	14399	7869	4604	12345	20540	22159	18232	10019	3636	2832	2487	2326	2847	5777	11824
64	11889	16006	14355	6534	3734	11082	20501	22185	18168	9775	3520	2790	2426	2286	2776	5588	11889
65	11988	16189	14258	5173	2863	9466	20420	22250	18069	9496	3417	2737	2361	2254	2707	5397	11988
66	12064	16394	14080	3901	1998	7650	20287	22301	17920	9196	3315	2667	2289	2216	2635	5196	12064
67	12173	16602	13810	2851	1471	5766	20069	22328	17724	8857	3215	2582	2197	2175	2563	5002	12173
68	12326	16830	13398	2069	1102	4344	19777	22342	17483	8465	3116	2477	2088	2130	2497	4823	12326
69	12521	17133	12823	1681	925	2923	19385	22345	17106	8023	3017	2348	1962	2075	2439	4650	12521
70	12763	17495	12049	1303	840	1527	18875	22194	16427	7535	2903	2193	1721	2001	2393	4473	12763
71	13077	17934	11077	925	776	1086	18221	21895	15269	7024	2770	2008	1394	1904	2360	4275	13077
72	13450	18464	9890	807	717	904	17418	21093	13595	6481	2605	1805	1067	1782	2330	4093	13450
73	13785	19139	8554	721	658	795	16393	19675	11605	5909	2409	1582	740	1576	2296	3915	13785
74	13928	19942	7097	650	604	721	15136	17588	9401	5360	2177	1335	598	1370	2251	3757	13928
75	13750	20846	5587	584	557	657	13584	14822	7187	4785	1921	1004	499	1163	2185	3608	13750
76	13089	21718	4206	526	518	599	11819	11736	5198	4176	1648	694	441	796	2087	3487	13089
77	11835	22278	2995	475	476	546	9882	8564	3997	3508	1350	471	407	500	1942	3373	11835
78	10041	22060	2063	432	434	495	7826	6305	2796	2839	921	351	382	359	1732	3250	10041
79	7818	20432	1645	404	398	455	5807	4046	1601	2171	459	299	363	301	1269	3052	7818
80	5892	16890	1241	384	361	424	4266	1825	993	1615	304	260	343	263	801	2815	5892
81	4125	11968	836	354	320	388	2725	938	610	1164	260	231	320	230	333	2488	4125
82	2718	7298	687	311	283	338	1207	593	405	842	224	205	282	203	256	2134	2718
83	1653	3884	575	263	248	288	690	454	283	549	190	181	225	180	211	1796	1653
84	1091	1885	477	224	216	248	479	376	208	219	155	159	182	158	175	1254	1091
85	544	1400	393	192	181	212	369	315	158	139	122	132	137	130	141	707	544
86	294	930	317	163	145	175	287	259	122	108	89	105	102	98	108	160	294
87	162	460	246	125	100	123	211	203	88	81	58	66	65	64	74	100	162
88	94	322	160	75	58	70	115	131	56	53	28	26	26	30	43	67	94
89	38	143	59	22	14	16	32	38	26	25	7	2	2	3	15	31	38
90	18	25	10	2	2	7	15	19	20	23	7	1	1	2	12	19	18
91	17	20	8	2	2	6	13	18	21	25	8	1	1	2	14	19	17
92	17	18	8	2	2	5	12	16	22	26	9	1	1	1	16	21	17
93	18	17	7	2	2	5	11	15	22	27	10	1	1	1	18	23	18
94	19	17	7	2	2	4	10	15	23	29	12	2	1	2	20	26	19
95	21	16	6	2	2	4	10	14	24	30	14	2	1	2	22	28	21

96	22	16	6	2	2	3	9	14	24	31	15	2	1	3	25	30	22
97	24	16	6	2	2	3	8	13	25	31	17	2	1	4	27	33	24
98	26	16	6	2	2	3	8	13	26	31	18	3	1	6	28	34	26
99	27	16	6	2	2	3	7	13	26	31	20	4	2	7	30	36	27
100	28	16	6	3	2	3	7	13	27	31	21	5	2	9	32	37	28
101	29	16	6	3	2	3	6	13	27	31	22	6	3	10	33	38	29
102	30	16	6	3	2	3	6	13	27	31	24	7	4	12	34	38	30
103	31	16	6	3	3	3	6	13	27	31	24	8	5	14	35	39	31
104	31	17	6	3	3	3	6	14	28	31	25	9	6	16	36	39	31
105	32	17	6	4	3	3	6	15	28	32	26	10	7	17	36	40	32
106	34	18	7	4	3	3	6	15	28	33	27	12	8	19	37	41	34
107	35	19	7	4	4	3	6	16	29	34	27	13	9	20	38	42	35
108	36	20	7	4	4	3	6	16	30	35	27	14	10	22	38	43	36
109	37	20	8	4	4	3	6	16	31	35	27	15	12	23	38	44	37
110	38	21	8	5	4	4	6	16	31	35	26	16	13	24	39	44	38
111	38	22	8	5	4	4	6	16	30	35	26	17	14	25	39	44	38
112	39	22	9	5	4	4	6	16	29	35	26	18	16	25	39	44	39
113	39	22	9	5	4	4	6	15	29	36	26	18	17	26	40	44	39
114	39	22	10	5	4	4	6	15	30	35	26	19	18	26	40	44	39
115	40	22	10	6	4	4	7	14	30	32	26	19	18	26	41	43	40
116	40	21	10	6	4	4	7	12	29	28	27	19	19	27	41	40	40
117	40	19	11	6	4	5	7	12	27	26	27	19	20	27	42	38	40
118	40	19	11	6	5	5	8	12	25	27	28	20	21	27	42	39	40
119	40	21	12	6	5	5	8	13	25	29	28	20	21	28	43	43	40
120	40	23	12	7	5	5	8	15	25	32	27	20	22	28	43	46	40
121	42	24	12	7	5	5	8	15	27	32	27	21	23	28	43	48	42
122	45	25	13	7	5	5	8	15	29	33	26	21	24	29	43	48	45
123	47	26	13	7	6	5	8	15	30	33	25	22	24	30	42	49	47
124	47	26	13	8	6	5	8	15	29	33	24	22	24	30	41	49	47
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154	21	15	15	13	12	12	11	14	17	17	19	18	20	20	23	18	21
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179	15	12	23	17	18	18	18	21	12	14	12	23	18	18	22	12	15
180	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2015-12-23  
[TESTLAB] Standard-Tech Co. Ltd  
[ISSUEDATE] 2015-12-23 22:18:12  
[MANUFAC] SARIN Energy Inc.  
[LUMINAIRE] SES-SHOEBOX-4000-400 120V  
[\_TOTALLUMINAIRELUMENS] 52946  
[\_LAMPPOSITION] 0,0  
[OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10  
1230.47 1230.47 2.32 2.3210- 20 3572.21 4802.67 9.07 9.0720- 30 5697.51 10500.18  
19.83 19.8330- 40 7619.73 18119.91 34.23 34.2340- 50 9046.21 27166.12 51.31  
51.3150- 60 9924.30 37090.42 70.06 70.0660- 70 9195.91 46286.33 87.43 87.4370- 80  
5884.25 52170.58 98.54 98.5480- 90 655.88 52826.46 99.78 99.7890-100 13.72  
52840.18 99.81 99.81100-110 18.78 52858.95 99.84 99.84110-120 20.98 52879.94 99.88  
99.88120-130 20.86 52900.80 99.92 99.92130-140 15.74 52916.54 99.95 99.95140-150  
10.65 52927.19 99.97 99.97150-160 7.62 52934.81 99.99 99.99160-170 4.59 52939.40  
100.00 100.00170-180 1.75 52941.15 100.00 100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
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.