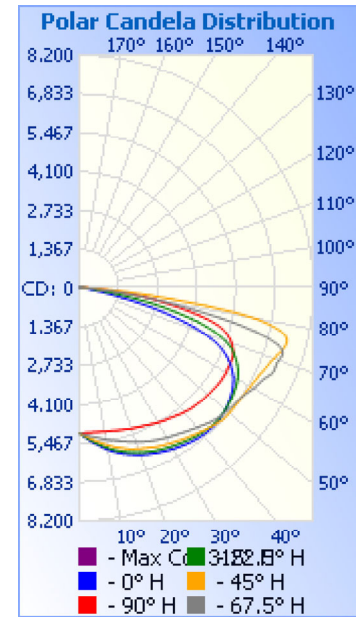


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 200W T4 - 120V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-200-T4  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 24609.3  
**Max Candela:** 8,178.4 at Horizontal: 315°, Vertical: 75°  
**Input Wattage:** 198.98  
**Luminous Opening:** Point  
**Test Lab:** Shenzhen Belling Test Laboratory  
**Photometry :** Type C  
**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	56.9	
Max Cd, 80 to <90 Deg:	6,353.9	
	Lumens	% Lamp
Downward Street Side:	16,974.7	69%
Downward House Side:	7,468.3	30.3%
Downward Total:	24,443.0	99.3%
Upward Street Side:	79.0	0.3%
Upward House Side:	87.3	0.4%
Upward Total:	166.3	0.7%
<b>Total Lumens:</b>	<b>24,609.3</b>	<b>100%</b>

### Flood Summary

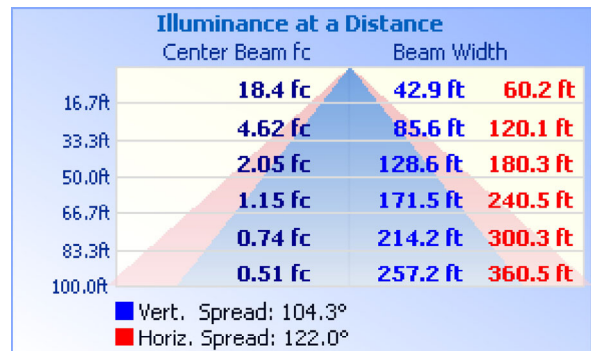
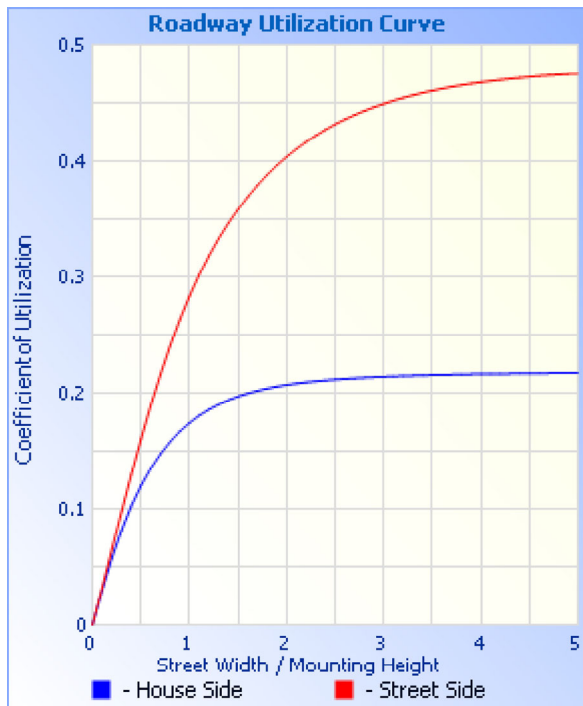
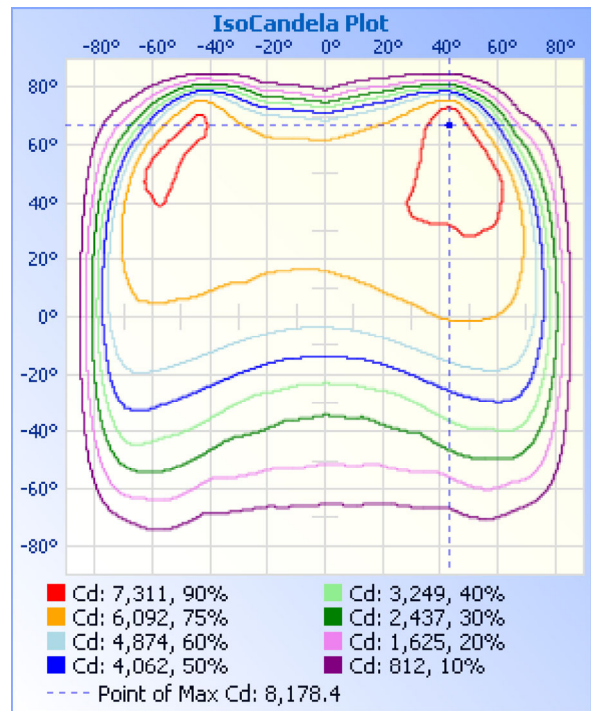
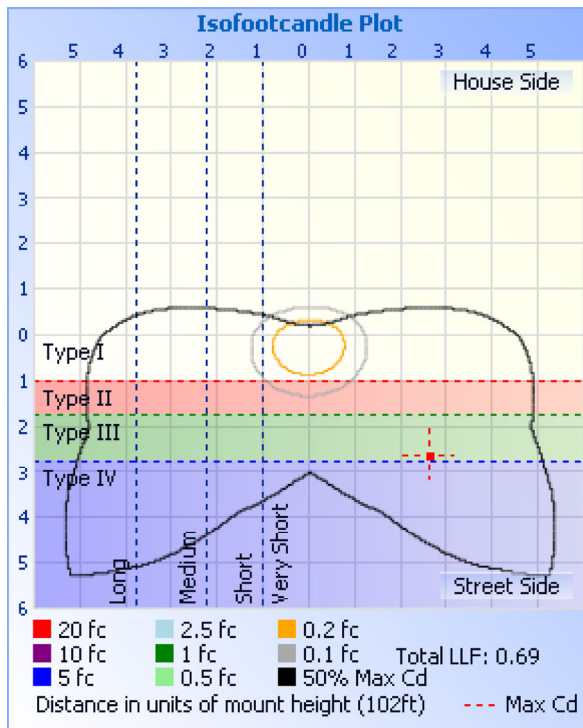
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.8%	24,067.8	151.2	151
Beam (50%):	78.8%	19,399.9	122	104.3
<b>Total:</b>	<b>99.9%</b>	<b>24,593.8</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	4,298.2	17.5%	17.5%
0-40	7,473.8	30.4%	30.4%
0-60	15,693.1	63.8%	63.8%
60-90	8,749.0	35.6%	35.6%
70-100	4,340.2	17.6%	17.6%
90-120	92.5	0.4%	0.4%
0-90	24,442.1	99.3%	99.3%
90-180	166.3	0.7%	0.7%
0-180	24,608.4	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	488.8	2.0%	90-100	36.4	0.1%
10-20	1,451.8	5.9%	100-110	29.8	0.1%
20-30	2,357.5	9.6%	110-120	26.3	0.1%
30-40	3,175.6	12.9%	120-130	21.9	0.1%
40-50	3,884.0	15.8%	130-140	17.6	0.1%
50-60	4,335.4	17.6%	140-150	14.6	0.1%
60-70	4,445.3	18.1%	150-160	10.9	0%
70-80	3,525.4	14.3%	160-170	6.6	0%
80-90	778.4	3.2%	170-180	2.2	0%



**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
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.06	1.00	.95	.90	1.03	.98	.93	.79	.93	.89	.85	.89	.86	.83	.85	.83	.80	.80	.80	.78	
2	.94	.84	.76	.69	.91	.82	.75	.62	.78	.72	.66	.75	.70	.65	.72	.67	.63	.63	.63	.61	
3	.84	.72	.62	.55	.82	.70	.61	.50	.67	.59	.53	.64	.58	.52	.61	.56	.51	.51	.51	.48	

4	.76	.63	.52	.45	.74	.61	.52	.42	.58	.50	.44	.56	.49	.43	.53	.47	.42	.40
5	.70	.55	.45	.37	.67	.54	.44	.35	.51	.43	.36	.49	.42	.36	.47	.41	.35	.33
6	.64	.49	.39	.32	.62	.48	.38	.30	.46	.37	.31	.44	.37	.31	.42	.36	.30	.28
7	.59	.44	.34	.27	.57	.43	.34	.26	.41	.33	.27	.40	.32	.27	.38	.32	.26	.24
8	.55	.40	.30	.24	.53	.39	.30	.23	.38	.29	.24	.36	.29	.23	.35	.28	.23	.21
9	.51	.36	.27	.21	.49	.36	.27	.21	.34	.27	.21	.33	.26	.21	.32	.25	.21	.19
10	.47	.33	.25	.19	.46	.33	.25	.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	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119
1	5190	5183	5170	5147	5111	5086	5069	5054	5051	5055	5066	5097	5129	5151	5172	5193	5190
2	5260	5242	5212	5177	5108	5051	5018	4985	4975	4987	5021	5073	5139	5186	5223	5255	5260
3	5331	5302	5259	5204	5105	5025	4953	4920	4905	4922	4974	5050	5149	5224	5278	5322	5331
4	5391	5361	5310	5229	5104	4994	4896	4846	4825	4853	4926	5019	5162	5254	5338	5391	5391
5	5460	5428	5363	5258	5107	4966	4845	4772	4740	4783	4872	5004	5178	5296	5399	5462	5460
6	5521	5484	5410	5286	5109	4943	4797	4696	4663	4702	4815	4990	5191	5334	5456	5527	5521
7	5590	5544	5463	5314	5113	4914	4730	4622	4579	4631	4767	4971	5202	5383	5509	5593	5590
8	5655	5600	5513	5352	5121	4889	4680	4548	4499	4562	4716	4943	5218	5423	5566	5651	5655
9	5723	5656	5561	5383	5133	4875	4628	4470	4416	4485	4659	4920	5237	5471	5634	5719	5723
10	5785	5714	5614	5416	5139	4849	4577	4398	4321	4411	4604	4906	5252	5516	5689	5786	5785
11	5844	5776	5662	5447	5143	4823	4527	4327	4237	4336	4556	4886	5269	5561	5758	5845	5844
12	5897	5831	5710	5480	5153	4803	4472	4243	4163	4254	4510	4870	5293	5606	5814	5907	5897
13	5946	5875	5758	5511	5163	4783	4417	4174	4079	4181	4451	4861	5310	5656	5868	5965	5946
14	6000	5922	5797	5550	5177	4762	4364	4091	3991	4102	4402	4842	5330	5701	5934	6027	6000
15	6047	5969	5840	5585	5193	4743	4315	4020	3914	4026	4347	4829	5352	5753	5989	6076	6047
16	6085	6010	5886	5618	5208	4725	4262	3944	3820	3950	4292	4808	5379	5799	6038	6126	6085
17	6129	6050	5929	5653	5222	4704	4208	3868	3733	3874	4239	4796	5406	5851	6093	6176	6129
18	6166	6089	5968	5694	5238	4686	4156	3784	3655	3786	4172	4780	5437	5900	6151	6229	6166
19	6207	6130	5999	5728	5259	4671	4100	3712	3571	3712	4122	4767	5470	5952	6203	6273	6207
20	6246	6168	6029	5768	5277	4661	4047	3634	3480	3633	4068	4757	5502	6011	6250	6320	6246
21	6282	6198	6059	5804	5292	4645	3996	3554	3398	3552	4013	4741	5534	6069	6293	6362	6282
22	6315	6229	6080	5838	5309	4625	3943	3476	3303	3468	3958	4725	5569	6119	6335	6410	6315
23	6346	6262	6117	5873	5324	4609	3894	3403	3224	3393	3902	4718	5602	6174	6378	6447	6346
24	6377	6297	6143	5908	5342	4594	3843	3323	3139	3312	3842	4706	5632	6220	6423	6477	6377
25	6411	6323	6188	5944	5360	4586	3787	3251	3053	3231	3784	4688	5666	6273	6466	6510	6411
26	6437	6349	6217	5973	5380	4571	3731	3176	2975	3161	3730	4675	5701	6320	6500	6547	6437
27	6466	6372	6244	6005	5405	4554	3676	3108	2891	3082	3677	4661	5737	6372	6545	6582	6466
28	6500	6396	6271	6034	5433	4541	3625	3034	2815	3001	3618	4648	5771	6425	6596	6615	6500
29	6524	6424	6297	6065	5459	4528	3568	2953	2742	2924	3552	4631	5802	6475	6640	6638	6524
30	6552	6446	6323	6094	5482	4512	3515	2884	2677	2855	3497	4620	5829	6518	6686	6664	6552
31	6577	6470	6350	6123	5507	4498	3472	2825	2604	2788	3442	4600	5859	6564	6725	6687	6577
32	6601	6491	6373	6149	5529	4484	3419	2753	2536	2722	3389	4592	5888	6608	6760	6722	6601
33	6626	6517	6408	6175	5548	4470	3371	2700	2474	2655	3333	4574	5921	6655	6805	6753	6626
34	6647	6539	6442	6204	5568	4452	3318	2633	2415	2590	3275	4561	5954	6700	6843	6779	6647
35	6668	6565	6467	6240	5586	4437	3255	2576	2355	2535	3219	4544	5987	6739	6888	6808	6668
36	6691	6585	6491	6278	5609	4428	3203	2521	2301	2479	3161	4531	6008	6781	6920	6839	6691
37	6712	6612	6526	6309	5634	4414	3157	2465	2254	2415	3118	4511	6030	6827	6962	6869	6712
38	6730	6635	6556	6346	5663	4397	3115	2408	2196	2353	3055	4498	6048	6859	7009	6897	6730
39	6750	6655	6589	6384	5696	4384	3062	2356	2153	2307	3000	4475	6077	6899	7056	6931	6750
40	6755	6672	6617	6420	5717	4364	3002	2308	2106	2251	2949	4461	6102	6940	7107	6958	6755
41	6768	6694	6650	6460	5740	4347	2957	2261	2055	2210	2896	4441	6118	6981	7155	6980	6768
42	6776	6698	6688	6498	5764	4328	2910	2214	2001	2158	2837	4413	6139	7013	7196	7011	6776
43	6776	6714	6715	6544	5781	4311	2853	2161	1971	2098	2790	4392	6151	7057	7238	7029	6776
44	6778	6732	6749	6586	5795	4291	2809	2118	1919	2060	2734	4366	6167	7091	7281	7037	6778
45	6766	6738	6782	6623	5812	4272	2758	2074	1883	2009	2696	4346	6176	7129	7316	7047	6766
46	6765	6735	6805	6658	5827	4250	2710	2023	1835	1969	2640	4318	6185	7154	7349	7058	6765

47	6746	6725	6837	6690	5844	4223	2661	1987	1796	1926	2587	4294	6187	7186	7380	7060	6746
48	6727	6716	6859	6716	5857	4200	2608	1943	1748	1875	2532	4259	6188	7197	7396	7052	6727
49	6716	6703	6864	6739	5863	4171	2559	1901	1706	1828	2476	4228	6184	7212	7409	7036	6716
50	6687	6682	6869	6759	5873	4144	2517	1851	1657	1782	2429	4191	6177	7221	7410	7018	6687
51	6663	6666	6865	6770	5885	4110	2466	1800	1612	1731	2371	4147	6172	7235	7408	7007	6663
52	6627	6644	6868	6791	5895	4083	2411	1759	1555	1676	2315	4102	6165	7263	7417	6980	6627
53	6595	6632	6867	6812	5907	4048	2362	1703	1509	1620	2257	4063	6156	7284	7422	6967	6595
54	6555	6614	6870	6827	5922	4010	2308	1644	1458	1573	2208	4022	6143	7309	7439	6949	6555
55	6521	6584	6882	6852	5931	3974	2252	1592	1396	1517	2145	3958	6131	7330	7457	6933	6521
56	6474	6553	6886	6880	5940	3929	2191	1535	1342	1447	2078	3901	6120	7370	7469	6913	6474
57	6426	6524	6892	6919	5949	3875	2146	1471	1292	1388	2015	3845	6102	7415	7481	6885	6426
58	6371	6497	6905	6960	5954	3836	2068	1407	1238	1329	1947	3783	6078	7437	7496	6862	6371
59	6314	6457	6921	7014	5954	3785	2005	1343	1177	1262	1878	3716	6059	7455	7525	6822	6314
60	6247	6415	6934	7075	5947	3736	1946	1280	1124	1204	1804	3636	6048	7481	7546	6784	6247
61	6156	6366	6951	7116	5938	3669	1878	1220	1054	1143	1725	3544	6025	7505	7563	6739	6156
62	6057	6305	6977	7156	5934	3603	1798	1154	1006	1079	1646	3463	5996	7550	7595	6693	6057
63	5965	6247	7003	7190	5927	3540	1729	1080	957	1018	1572	3370	5968	7619	7637	6639	5965
64	5836	6165	7024	7253	5927	3473	1651	1028	888	960	1489	3273	5934	7659	7680	6581	5836
65	5709	6086	7058	7336	5918	3398	1570	969	797	900	1403	3170	5880	7657	7723	6515	5709
66	5560	5985	7098	7408	5904	3318	1487	906	722	839	1315	3061	5813	7626	7763	6464	5560
67	5395	5894	7137	7432	5873	3244	1396	838	680	759	1233	2952	5722	7568	7803	6388	5395
68	5186	5794	7173	7430	5816	3153	1317	759	635	681	1148	2837	5621	7546	7846	6309	5186
69	4936	5633	7221	7430	5757	3062	1233	680	611	633	1071	2719	5506	7536	7927	6201	4936
70	4620	5458	7273	7455	5693	2952	1142	615	573	593	985	2604	5366	7512	8022	6068	4620
71	4281	5247	7330	7501	5604	2846	1057	573	539	545	917	2482	5213	7403	8068	5893	4281
72	3890	4992	7399	7516	5500	2729	979	523	515	506	841	2330	5027	7138	8112	5699	3890
73	3446	4670	7462	7445	5375	2601	903	488	488	475	777	2191	4783	6761	8138	5460	3446
74	3051	4322	7512	7249	5223	2457	817	450	463	439	696	2035	4532	6190	8163	5138	3051
75	2580	3898	7539	6883	5007	2289	747	417	447	410	633	1863	4246	5542	8178	4783	2580
76	2071	3473	7514	6391	4733	2104	672	384	423	385	568	1672	3910	4838	8143	4375	2071
77	1537	3022	7418	5761	4346	1921	599	357	407	360	498	1478	3603	4145	7970	3936	1537
78	1180	2565	7208	5038	3935	1743	529	333	386	334	446	1314	3272	3467	7609	3456	1180
79	876	2061	6835	4231	3525	1575	444	303	367	309	388	1152	2961	2796	7071	2925	876
80	669	1633	6354	3517	3087	1425	385	279	340	280	338	996	2615	2244	6277	2432	669
81	525	1253	5581	2794	2695	1266	322	243	309	256	285	717	2265	1708	5379	1927	525
82	419	934	4481	2186	2314	1069	254	221	283	237	241	486	1885	1211	4139	1499	419
83	333	713	3304	1661	1913	770	204	193	248	201	206	323	1494	840	3026	1132	333
84	264	565	2459	1182	1485	490	162	164	214	168	162	229	1179	570	2215	869	264
85	218	441	1709	762	1033	280	130	131	173	150	130	178	825	346	1540	637	218
86	160	304	1091	438	668	157	100	108	130	116	113	136	485	191	1008	438	160
87	111	171	551	223	377	98	70	84	83	80	80	107	244	103	527	227	111
88	63	62	119	102	163	54	62	58	74	60	57	80	59	59	103	68	63
89	54	55	68	58	61	41	41	42	49	40	47	49	22	36	66	55	54
90	51	46	50	46	30	34	36	31	37	34	39	54	19	31	57	47	51
91	47	47	50	57	25	19	29	28	32	33	43	51	16	35	57	50	47
92	49	34	48	52	24	27	30	20	30	31	32	32	16	38	52	49	49
93	49	40	51	43	22	24	32	35	35	33	42	47	15	24	41	43	49
94	41	37	46	40	21	26	31	31	33	28	34	34	13	28	43	35	41
95	41	35	37	37	19	24	26	25	30	33	41	35	12	26	44	44	41

96	41	29	32	39	18	24	35	29	36	30	42	42	11	32	43	43	41
97	40	36	35	39	17	28	32	26	28	30	34	34	10	28	36	44	40
98	42	34	30	36	16	25	32	38	28	23	34	41	9	25	33	40	42
99	31	37	27	40	15	19	29	34	34	32	45	45	10	24	30	36	31
100	31	25	32	27	16	22	34	34	33	28	35	42	9	26	32	38	31
101	34	24	31	23	14	25	36	34	34	32	36	43	9	22	33	28	34
102	36	25	35	32	14	28	36	31	36	31	44	38	9	21	30	37	36
103	39	29	28	34	14	19	32	34	38	32	41	38	9	20	26	30	39
104	38	32	18	22	13	24	36	22	36	24	36	41	7	22	34	32	38
105	42	31	26	24	13	27	25	30	37	29	37	40	8	20	25	35	42
106	37	28	27	26	13	28	35	32	34	27	39	29	7	23	22	32	37
107	32	20	22	31	13	24	40	31	35	26	36	23	7	23	33	34	32
108	34	29	22	33	13	25	35	43	38	29	38	41	6	15	30	28	34
109	35	27	25	35	13	22	40	33	48	27	32	39	6	17	26	27	35
110	33	21	20	28	12	18	33	31	41	19	41	28	7	17	16	25	33
111	37	23	16	26	12	24	33	36	37	29	26	37	7	17	28	24	37
112	40	28	27	24	12	22	42	35	40	31	33	40	7	23	24	20	40
113	41	19	16	25	11	22	34	35	39	27	32	35	7	18	16	22	41
114	37	24	18	27	11	27	31	30	43	32	35	41	6	25	23	23	37
115	42	26	27	28	12	24	33	26	40	31	32	33	6	21	27	27	42
116	41	24	24	24	11	21	36	38	44	34	29	37	6	16	27	22	41
117	33	18	17	23	11	22	39	33	52	34	30	27	6	21	23	22	33
118	45	24	25	28	11	26	34	37	46	30	20	39	6	16	25	27	45
119	34	27	15	24	11	23	33	40	46	26	34	33	7	19	23	14	34
120	41	21	23	24	10	20	35	31	40	30	33	37	6	20	28	25	41
121	36	23	26	23	10	23	32	31	40	30	31	27	7	14	20	20	36
122	39	19	21	20	10	21	27	24	42	28	28	33	7	22	23	26	39
123	28	22	18	22	9	24	28	36	43	26	28	33	7	22	34	20	28
124	36	26	21	27	10	17	33	38	39	24	36	28	5	19	26	21	36
125	36	17	20	26	10	22	25	36	37	26	30	27	6	16	18	27	36
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**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Shenzhen Belling Test Laboratory  
[ISSUEDATE] 2018-5-28 19:30  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-200-T4  
[\_TOTALLUMINAIRELUMENS] 24608.4  
[VOLTAGE] 119.6 V  
[CURRENT] 1.652 A  
[POWERFACTOR] 0.998  
[TESTINST] GPM-3000  
[TESTDIST] 17.398 M  
[TESTTEMPERATURE] 28.9 'C  
[TESTHUMIDITY]  
[TESTOPERATOR]  
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.