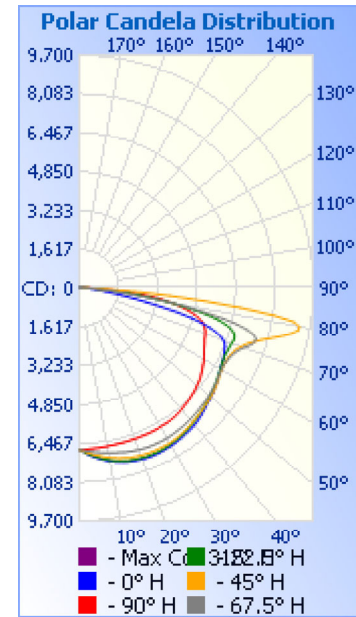


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 240W T4 - 120V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-240-T4
Lamp Output: 1 lamp, rated Lumens/lamp: 29361.1
Max Candela: 9,616.5 at Horizontal: 315°, Vertical: 79°
Input Wattage: 238.72
Luminous Opening: Point
Test Lab: Shenzhen Belling Test Laboratory
Photometry : Type C
Nema Type: 7 X 7

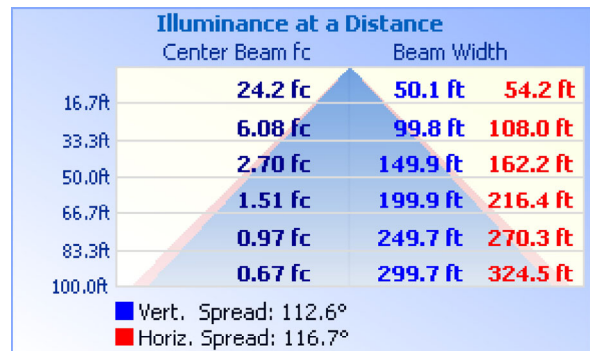
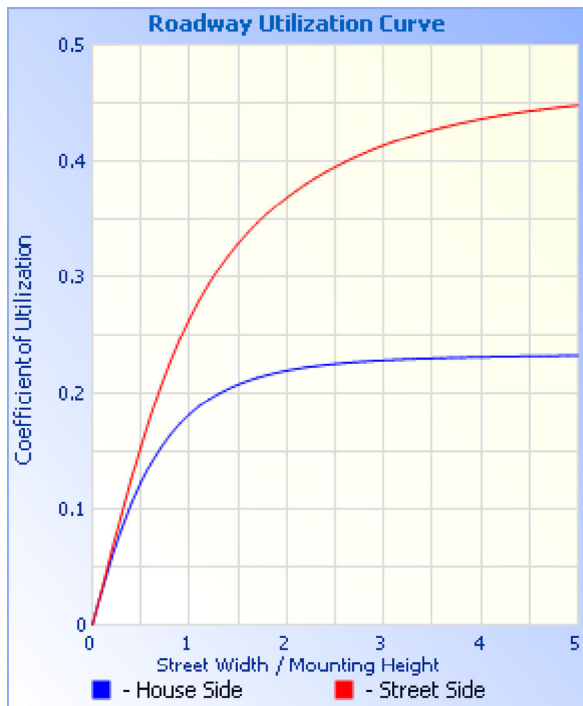
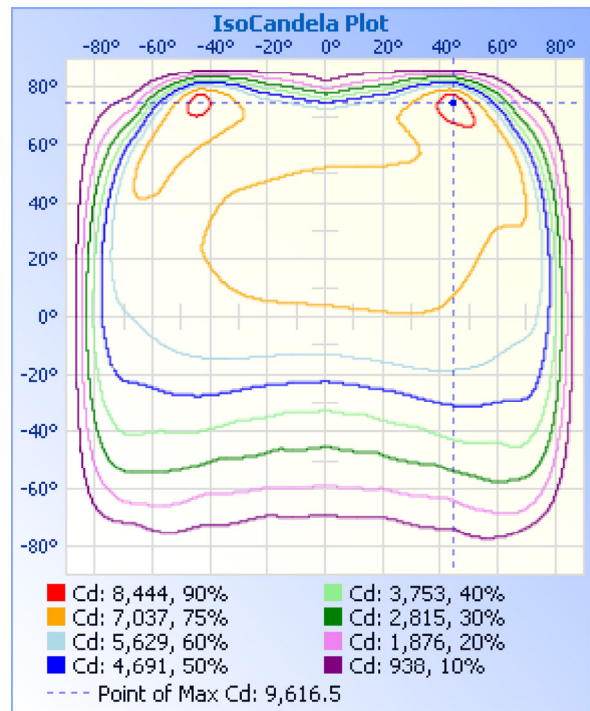
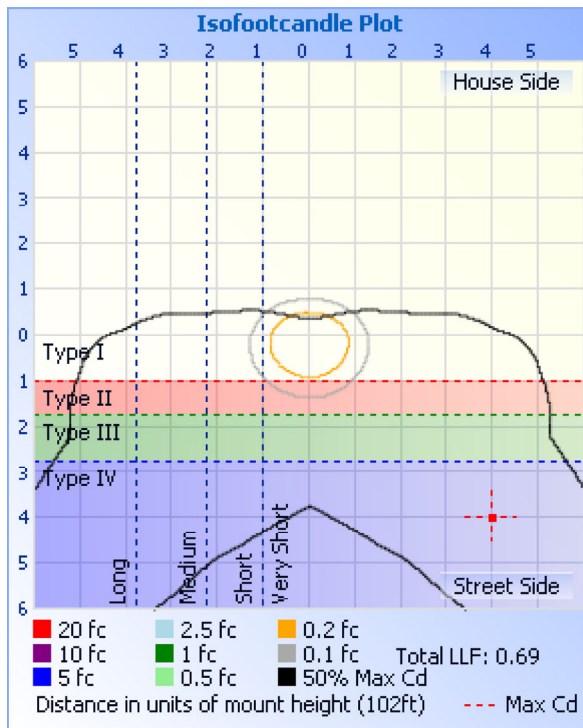


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	85.2	
Max Cd, 80 to <90 Deg:	9,513.4	
	Lumens	% Lamp
Downward Street Side:	19,365.5	66%
Downward House Side:	9,815.1	33.4%
Downward Total:	29,180.5	99.4%
Upward Street Side:	88.4	0.3%
Upward House Side:	92.2	0.3%
Upward Total:	180.6	0.6%
Total Lumens:	29,361.1	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.3%	28,849.5	145.7	160.3
Beam (50%):	79.5%	23,339.6	116.7	112.6
Total:	99.9%	29,342.2		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	5,472.2	18.6%	18.6%
0-40	9,294.1	31.7%	31.7%
0-60	18,449.7	62.8%	62.8%
60-90	10,729.9	36.5%	36.5%
70-100	5,990.7	20.4%	20.4%
90-120	106.2	0.4%	0.4%
0-90	29,179.6	99.4%	99.4%
90-180	180.6	0.6%	0.6%
0-180	29,360.2	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	641.0	2.2%	90-100	45.0	0.2%
10-20	1,872.8	6.4%	100-110	33.6	0.1%
20-30	2,958.4	10.1%	110-120	27.6	0.1%
30-40	3,821.9	13.0%	120-130	22.1	0.1%
40-50	4,420.5	15.1%	130-140	17.5	0.1%
50-60	4,735.1	16.1%	140-150	14.6	0%
60-70	4,784.3	16.3%	150-160	11.3	0%
70-80	4,501.6	15.3%	160-170	6.8	0%
80-90	1,444.0	4.9%	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	50	30	20	50	30	20	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	1.01	1.01	1.01	.99
1	1.05	.99	.94	.89	1.02	.97	.92	.78	.92	.88	.84	.88	.85	.81	.84	.81	.79	.77
2	.94	.84	.75	.68	.91	.82	.74	.62	.78	.71	.66	.74	.69	.64	.71	.66	.62	.60
3	.84	.72	.62	.54	.81	.70	.61	.50	.67	.59	.53	.64	.57	.52	.61	.55	.50	.48

4	.76	.62	.52	.45	.74	.61	.52	.42	.58	.50	.43	.56	.49	.43	.53	.47	.42	.40
5	.70	.55	.45	.37	.67	.54	.44	.35	.52	.43	.37	.49	.42	.36	.47	.41	.36	.33
6	.64	.49	.39	.32	.62	.48	.39	.31	.46	.38	.31	.44	.37	.31	.43	.36	.31	.28
7	.59	.44	.35	.28	.57	.43	.34	.27	.42	.33	.27	.40	.33	.27	.39	.32	.27	.25
8	.55	.40	.31	.25	.53	.39	.31	.24	.38	.30	.24	.37	.29	.24	.35	.29	.24	.22
9	.51	.37	.28	.22	.50	.36	.28	.21	.35	.27	.22	.34	.27	.21	.33	.26	.21	.19
10	.48	.34	.25	.20	.47	.33	.25	.19	.32	.25	.19	.31	.24	.19	.30	.24	.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	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738	6738
1	6800	6797	6792	6760	6733	6704	6682	6665	6654	6676	6695	6714	6744	6775	6799	6805	6800
2	6871	6866	6835	6786	6727	6671	6624	6596	6582	6609	6645	6694	6750	6808	6854	6879	6871
3	6939	6923	6885	6812	6721	6638	6568	6526	6504	6542	6596	6669	6758	6843	6911	6939	6939
4	7006	6978	6925	6833	6716	6605	6510	6442	6418	6465	6547	6650	6765	6877	6965	7005	7006
5	7067	7034	6974	6857	6712	6568	6450	6365	6337	6390	6497	6630	6774	6911	7018	7064	7067
6	7125	7084	7013	6885	6707	6535	6388	6284	6244	6313	6447	6607	6781	6947	7071	7122	7125
7	7180	7142	7053	6907	6704	6503	6325	6209	6158	6240	6391	6588	6790	6985	7118	7178	7180
8	7223	7196	7100	6934	6701	6472	6264	6126	6065	6155	6333	6561	6799	7019	7165	7232	7223
9	7277	7240	7136	6955	6696	6442	6203	6027	5972	6068	6285	6539	6809	7053	7207	7285	7277
10	7318	7289	7172	6975	6693	6411	6132	5936	5874	5984	6228	6514	6819	7084	7254	7335	7318
11	7363	7324	7203	6993	6691	6377	6069	5855	5780	5896	6162	6493	6827	7113	7301	7373	7363
12	7399	7364	7237	7014	6689	6344	6003	5776	5672	5819	6104	6472	6836	7144	7344	7421	7399
13	7434	7401	7273	7037	6688	6309	5939	5688	5580	5735	6043	6445	6844	7175	7385	7450	7434
14	7471	7426	7301	7064	6688	6276	5877	5600	5477	5643	5994	6424	6854	7205	7419	7487	7471
15	7497	7451	7327	7085	6688	6243	5814	5500	5376	5562	5929	6400	6862	7237	7452	7512	7497
16	7521	7476	7359	7106	6689	6207	5745	5406	5277	5463	5863	6382	6870	7269	7482	7543	7521
17	7546	7492	7385	7122	6691	6176	5681	5319	5170	5379	5798	6359	6878	7298	7506	7565	7546
18	7560	7515	7395	7140	6692	6147	5605	5221	5074	5294	5737	6329	6884	7323	7530	7590	7560
19	7576	7522	7413	7155	6693	6119	5542	5127	4975	5203	5667	6302	6894	7352	7558	7607	7576
20	7591	7537	7422	7180	6694	6090	5474	5036	4869	5105	5608	6281	6905	7380	7571	7629	7591
21	7604	7549	7435	7188	6694	6057	5403	4945	4774	5028	5542	6256	6915	7404	7590	7647	7604
22	7615	7557	7445	7204	6695	6021	5336	4851	4680	4928	5482	6237	6925	7427	7610	7662	7615
23	7621	7556	7456	7218	6696	5989	5270	4760	4574	4831	5409	6217	6935	7450	7626	7668	7621
24	7628	7559	7462	7224	6698	5957	5193	4668	4463	4745	5352	6196	6946	7472	7639	7678	7628
25	7625	7566	7468	7225	6701	5924	5135	4569	4375	4657	5284	6165	6954	7488	7651	7683	7625
26	7626	7563	7465	7231	6705	5888	5066	4485	4283	4564	5214	6142	6956	7500	7656	7688	7626
27	7621	7562	7471	7235	6705	5854	4997	4395	4195	4477	5146	6111	6956	7510	7663	7689	7621
28	7612	7555	7468	7237	6704	5820	4929	4306	4111	4388	5078	6081	6957	7519	7670	7682	7612
29	7607	7541	7471	7243	6706	5789	4857	4219	4010	4297	5004	6047	6960	7523	7680	7676	7607
30	7599	7526	7472	7237	6700	5754	4795	4142	3927	4212	4937	6017	6961	7526	7675	7665	7599
31	7587	7515	7465	7231	6692	5715	4727	4046	3842	4118	4876	5984	6964	7529	7675	7653	7587
32	7577	7505	7458	7229	6690	5683	4660	3965	3761	4034	4808	5950	6966	7530	7671	7637	7577
33	7562	7493	7441	7224	6690	5646	4596	3887	3679	3955	4743	5921	6965	7530	7666	7621	7562
34	7551	7475	7426	7213	6684	5610	4516	3808	3593	3870	4670	5896	6961	7532	7661	7600	7551
35	7530	7465	7416	7205	6677	5572	4450	3728	3509	3799	4608	5867	6955	7525	7648	7584	7530
36	7508	7442	7397	7201	6670	5531	4379	3645	3435	3714	4536	5818	6948	7514	7635	7562	7508
37	7502	7419	7384	7186	6661	5491	4317	3566	3362	3638	4465	5783	6942	7506	7617	7552	7502
38	7492	7388	7353	7179	6644	5450	4241	3487	3284	3564	4398	5740	6942	7500	7603	7532	7492
39	7474	7363	7333	7166	6625	5405	4183	3416	3219	3492	4332	5700	6940	7498	7583	7513	7474
40	7447	7341	7305	7153	6605	5360	4112	3348	3133	3417	4266	5654	6931	7486	7553	7478	7447
41	7423	7315	7294	7138	6578	5317	4042	3283	3059	3347	4203	5613	6913	7476	7535	7454	7423
42	7385	7290	7273	7127	6554	5277	3978	3206	2994	3264	4132	5555	6885	7462	7513	7434	7385
43	7354	7258	7252	7112	6539	5235	3906	3147	2932	3203	4068	5516	6870	7451	7496	7409	7354
44	7320	7231	7225	7094	6515	5187	3837	3077	2859	3140	3994	5470	6847	7446	7485	7375	7320
45	7280	7206	7212	7077	6488	5137	3777	3003	2792	3071	3931	5417	6822	7430	7465	7347	7280
46	7248	7185	7190	7064	6465	5086	3708	2940	2741	3000	3862	5372	6795	7419	7438	7314	7248

47	7204	7149	7164	7048	6444	5038	3638	2869	2674	2938	3785	5319	6763	7408	7422	7283	7204
48	7170	7129	7144	7041	6418	4988	3561	2808	2608	2865	3717	5271	6737	7405	7394	7250	7170
49	7144	7105	7122	7022	6390	4931	3499	2734	2535	2814	3642	5210	6713	7401	7383	7216	7144
50	7109	7072	7103	7001	6358	4878	3424	2675	2476	2734	3574	5167	6685	7394	7371	7196	7109
51	7090	7032	7077	6989	6329	4812	3358	2607	2409	2666	3508	5105	6647	7381	7350	7157	7090
52	7062	7006	7055	6960	6304	4758	3287	2546	2350	2601	3438	5051	6604	7375	7340	7125	7062
53	7019	6965	7030	6941	6272	4691	3203	2479	2279	2534	3357	4992	6569	7361	7314	7096	7019
54	6978	6939	7002	6928	6228	4630	3138	2398	2203	2461	3290	4927	6534	7343	7287	7075	6978
55	6954	6909	6963	6911	6183	4559	3077	2329	2140	2381	3215	4864	6496	7328	7267	7039	6954
56	6920	6876	6935	6890	6141	4492	2990	2255	2057	2316	3139	4791	6457	7310	7242	7006	6920
57	6872	6849	6899	6867	6098	4420	2917	2182	1989	2235	3067	4722	6420	7299	7208	6980	6872
58	6834	6820	6866	6852	6058	4351	2847	2117	1900	2158	2996	4640	6371	7296	7178	6951	6834
59	6798	6792	6841	6832	6022	4271	2764	2034	1825	2085	2906	4557	6318	7295	7164	6926	6798
60	6767	6763	6833	6813	5972	4184	2692	1955	1744	1986	2841	4484	6272	7293	7143	6898	6767
61	6729	6737	6815	6808	5922	4102	2595	1864	1664	1910	2743	4395	6216	7293	7139	6872	6729
62	6704	6712	6805	6812	5865	4019	2517	1771	1585	1828	2654	4303	6167	7298	7141	6852	6704
63	6687	6694	6814	6823	5811	3933	2433	1693	1503	1747	2577	4207	6128	7307	7145	6833	6687
64	6666	6671	6817	6846	5769	3838	2335	1604	1422	1646	2489	4114	6090	7337	7156	6819	6666
65	6622	6666	6840	6878	5723	3750	2245	1515	1298	1565	2368	4021	6055	7374	7186	6819	6622
66	6591	6675	6869	6928	5688	3663	2138	1437	1170	1486	2274	3921	6020	7433	7229	6823	6591
67	6557	6690	6913	6984	5649	3571	2049	1337	1067	1394	2179	3826	5985	7505	7277	6830	6557
68	6518	6697	6960	7061	5614	3470	1943	1185	994	1277	2063	3721	5958	7601	7341	6839	6518
69	6461	6722	7043	7156	5588	3382	1838	1088	914	1154	1969	3623	5921	7714	7429	6862	6461
70	6361	6740	7151	7282	5562	3290	1727	992	838	1055	1850	3526	5889	7843	7533	6880	6361
71	6210	6770	7280	7439	5533	3190	1628	881	769	961	1743	3444	5852	8003	7694	6892	6210
72	5965	6766	7428	7562	5478	3090	1522	810	709	853	1639	3332	5787	8159	7871	6874	5965
73	5690	6740	7643	7636	5422	2969	1414	740	659	786	1524	3228	5703	8254	8080	6829	5690
74	5276	6654	7864	7630	5344	2851	1319	683	611	717	1414	3109	5549	8254	8313	6709	5276
75	4814	6497	8145	7479	5236	2699	1202	624	569	653	1314	2972	5332	8100	8588	6508	4814
76	4207	6250	8455	7176	5098	2527	1093	574	529	606	1194	2798	5075	7739	8917	6232	4207
77	3471	5937	8774	6704	4899	2342	969	525	504	545	1069	2594	4790	7170	9251	5855	3471
78	2831	5501	9055	6088	4677	2153	859	477	459	508	941	2446	4478	6502	9503	5388	2831
79	2271	4966	9264	5296	4429	1992	737	445	429	457	841	2295	4100	5739	9616	4763	2271
80	1769	4310	9290	4521	4118	1823	639	396	393	412	727	2118	3726	4826	9513	4131	1769
81	1387	3667	9013	3691	3808	1569	543	363	354	370	609	1950	3305	3930	9068	3444	1387
82	1092	3051	8149	2849	3461	1242	432	311	319	323	505	1723	2842	3102	8116	2823	1092
83	842	2481	6749	2153	3064	833	336	267	273	287	372	1371	2285	2380	6675	2302	842
84	659	2037	5223	1534	2562	534	263	228	235	245	290	939	1807	1738	5125	1875	659
85	490	1514	3784	974	1958	333	200	181	191	203	225	576	1274	1151	3674	1448	490
86	347	946	2557	580	1425	199	145	144	135	165	172	351	812	677	2407	951	347
87	194	496	1117	292	923	130	108	109	109	123	137	222	392	368	1340	493	194
88	86	139	187	144	472	86	74	79	66	88	102	155	155	171	282	144	86
89	69	72	87	78	141	53	55	47	57	60	79	69	51	66	96	79	69
90	59	81	85	69	49	34	33	31	29	43	56	65	37	52	83	54	59
91	63	62	78	72	43	31	37	24	34	41	44	67	33	46	75	65	63
92	60	45	67	71	39	29	38	24	20	43	44	65	29	41	69	52	60
93	48	56	50	51	35	28	37	31	25	45	41	60	27	36	44	51	48
94	46	37	58	61	31	28	36	23	32	46	47	65	24	33	52	38	46
95	45	48	54	55	30	27	38	25	27	40	49	62	22	29	56	42	45

96	42	52	49	52	28	26	42	23	29	32	39	60	20	26	47	48	42
97	39	44	41	54	27	25	36	28	30	39	45	49	18	24	51	47	39
98	42	47	48	53	25	26	42	20	37	26	46	62	16	22	35	38	42
99	37	37	39	50	24	26	29	39	39	32	40	56	17	21	41	40	37
100	38	38	40	55	23	25	34	30	37	39	42	62	15	18	34	36	38
101	36	42	38	51	23	24	40	33	33	39	40	51	15	17	34	33	36
102	34	44	37	41	22	25	40	38	36	37	46	58	14	16	27	32	34
103	35	34	31	45	21	25	33	33	34	36	33	58	14	16	31	37	35
104	30	41	28	49	21	24	37	14	33	43	27	58	13	14	37	25	30
105	30	36	34	45	21	23	40	25	33	35	37	49	12	13	29	28	30
106	33	35	33	48	19	23	39	35	43	33	41	52	12	11	28	28	33
107	32	34	25	46	19	24	42	32	40	38	42	54	11	12	30	29	32
108	30	37	26	44	19	23	38	29	32	25	46	48	10	11	28	28	30
109	34	29	33	28	19	23	39	30	35	46	35	56	10	11	30	28	34
110	26	34	19	35	19	23	36	33	32	27	33	49	10	9	26	33	26
111	44	26	30	30	18	23	40	36	31	22	33	53	10	9	25	29	44
112	43	26	24	38	18	23	42	30	36	32	36	56	9	8	29	24	43
113	42	36	16	36	17	21	37	31	43	41	29	50	10	9	27	25	42
114	37	35	19	41	17	20	38	29	34	38	38	46	9	8	25	27	37
115	50	41	24	43	16	20	30	30	32	34	38	50	9	8	23	15	50
116	44	35	15	36	15	19	36	28	24	26	37	46	9	8	22	25	44
117	53	39	25	34	14	19	36	31	45	37	30	39	8	7	22	24	53
118	49	28	20	35	15	18	32	16	41	34	35	43	9	6	23	21	49
119	48	26	0	17	15	18	25	34	45	31	26	44	8	6	16	20	48
120	46	32	26	36	14	17	27	30	38	27	21	41	8	8	20	23	46
121	38	32	26	32	14	17	32	28	31	28	25	48	8	8	21	30	38
122	41	35	17	29	14	16	35	25	28	35	29	42	9	7	15	23	41
123	40	36	20	37	13	15	33	23	32	34	30	42	9	8	22	31	40
124	38	29	20	36	12	16	25	18	30	32	25	37	6	8	23	0	38
125	30	37	21	32	14	15	30	26	31	36	26	49	8	8	22	20	30
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB] Shenzhen Belling Test Laboratory
[ISSUEDATE] 2018-5-19 09:52
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-240-T4
[_TOTALLUMINAIRELUMENS] 29360.2
[VOLTAGE] 119.7 V
[CURRENT] 1.578 A
[POWERFACTOR] 0.995
[TESTINST] GPM-3000
[TESTDIST] 17.398 M
[TESTTEMPERATURE] 28.0 '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.