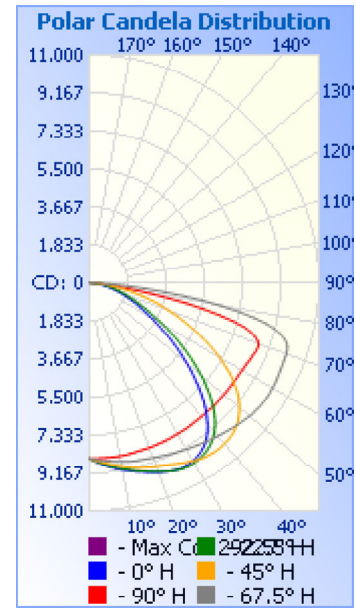


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 240W T3 - 120V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-240-T3  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 32551.3  
**Max Candela:** 10,374.7 at Horizontal: 292.5°, Vertical: 73°  
**Input Wattage:** 240.81  
**Luminous Opening:** Point  
**Test Lab:** Belling Test Laboratory Co., LTD  
**Photometry :** Type C  
**Nema Type:** 7 X 7

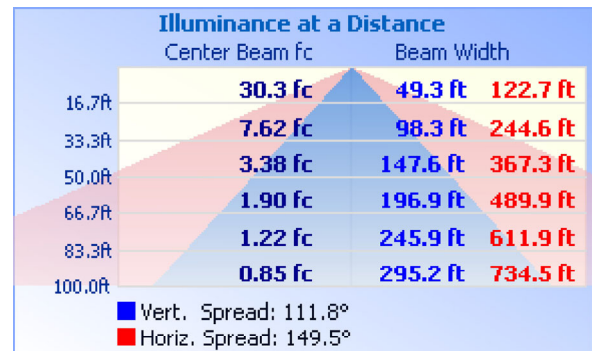
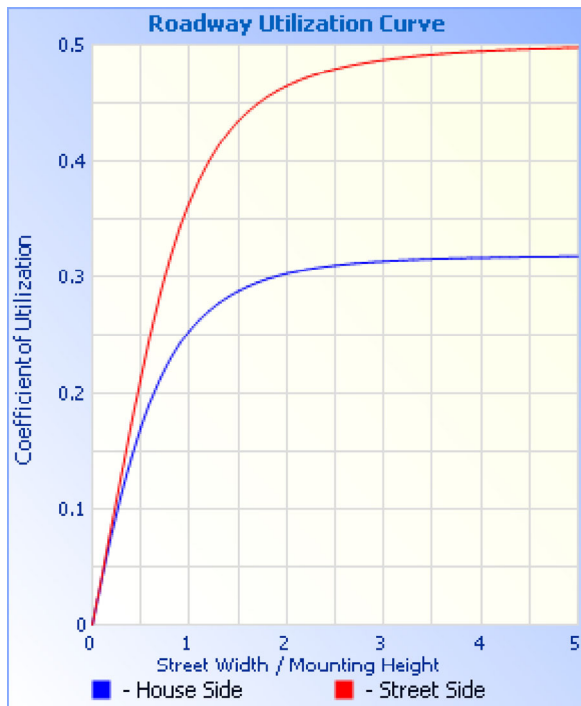
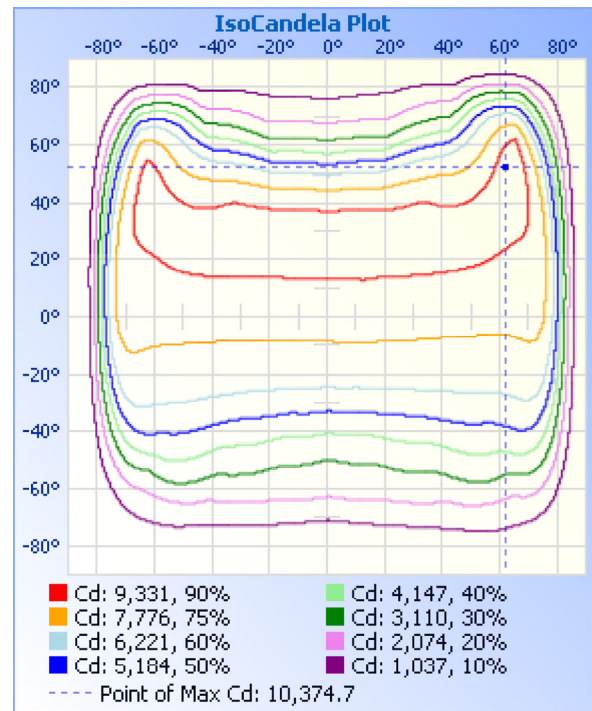
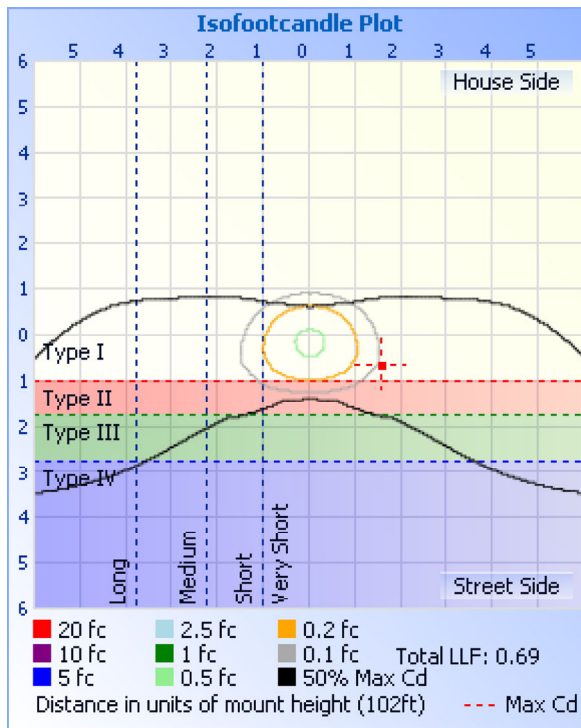


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	105.3	
Max Cd, 80 to <90 Deg:	8,516.1	
	Lumens	% Lamp
Downward Street Side:	19,946.6	61.3%
Downward House Side:	12,475.9	38.3%
Downward Total:	32,422.4	99.6%
Upward Street Side:	64.1	0.2%
Upward House Side:	64.8	0.2%
Upward Total:	128.8	0.4%
Total Lumens:	32,551.3	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.3%	32,005.1	164.8	158
Beam (50%):	79.9%	25,996.0	149.5	111.8
Total:	100%	32,535.8		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	6,975.0	21.4%	21.4%
0-40	11,920.9	36.6%	36.6%
0-60	22,998.1	70.7%	70.7%
60-90	9,422.4	28.9%	28.9%
70-100	4,526.9	13.9%	13.9%
90-120	62.6	0.2%	0.2%
0-90	32,420.5	99.6%	99.6%
90-180	128.8	0.4%	0.4%
0-180	32,549.3	100%	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	805.4	2.5%	90-100	24.4	0.1%	
10-20	2,370.2	7.3%	100-110	19.8	0.1%	
20-30	3,799.5	11.7%	110-120	18.3	0.1%	
30-40	4,945.9	15.2%	120-130	16.5	0.1%	
40-50	5,556.2	17.1%	130-140	15.6	0%	
50-60	5,521.0	17.0%	140-150	14.1	0%	
60-70	4,920.0	15.1%	150-160	11.0	0%	
70-80	3,596.3	11.0%	160-170	6.9	0%	
80-90	906.2	2.8%	170-180	2.3	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	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	.92	1.04	.99	.95	.81	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80
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	.74	.65	.55	.70	.63	.57	.68	.61	.56	.65	.60	.55	.53

4	.79	.66	.56	.49	.77	.65	.56	.46	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5	.72	.58	.49	.42	.70	.57	.48	.39	.55	.47	.41	.53	.46	.40	.51	.45	.40	.37
6	.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7	.61	.47	.38	.31	.60	.46	.37	.30	.45	.37	.31	.43	.36	.30	.42	.35	.30	.28
8	.57	.43	.34	.28	.55	.42	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.25
9	.53	.39	.30	.25	.52	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22
10	.50	.36	.28	.22	.48	.35	.27	.22	.34	.27	.22	.33	.27	.22	.32	.26	.22	.20

## 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	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455	8455
1	8529	8522	8507	8483	8453	8424	8399	8378	8381	8381	8399	8427	8459	8487	8510	8524	8529
2	8603	8589	8554	8509	8453	8395	8343	8307	8306	8310	8346	8404	8459	8515	8563	8589	8603
3	8679	8651	8609	8541	8454	8365	8285	8233	8224	8237	8291	8376	8461	8545	8615	8663	8679
4	8748	8716	8656	8565	8452	8329	8230	8158	8135	8163	8240	8347	8461	8575	8667	8722	8748
5	8815	8783	8704	8593	8453	8299	8172	8082	8054	8088	8183	8315	8462	8603	8716	8791	8815
6	8880	8843	8759	8622	8451	8270	8109	8007	7972	8014	8129	8289	8465	8631	8765	8851	8880
7	8944	8902	8809	8651	8456	8240	8049	7923	7888	7932	8070	8261	8467	8665	8818	8909	8944
8	9010	8962	8860	8683	8460	8210	7990	7844	7793	7855	8013	8229	8472	8698	8867	8967	9010
9	9069	9020	8913	8715	8461	8179	7928	7763	7703	7775	7956	8200	8478	8731	8918	9027	9069
10	9127	9078	8964	8744	8461	8149	7862	7681	7612	7695	7898	8172	8478	8762	8963	9087	9127
11	9180	9138	9016	8770	8460	8116	7796	7597	7514	7610	7836	8142	8484	8796	9015	9142	9180
12	9240	9194	9067	8793	8456	8081	7735	7510	7404	7524	7771	8112	8486	8825	9067	9194	9240
13	9299	9251	9115	8817	8447	8042	7672	7400	7358	7414	7709	8080	8485	8858	9114	9250	9299
14	9351	9306	9160	8836	8440	7996	7610	7363	7238	7378	7646	8039	8482	8881	9162	9306	9351
15	9406	9364	9200	8852	8430	7957	7543	7262	7139	7275	7579	8003	8472	8899	9209	9363	9406
16	9458	9424	9240	8867	8424	7910	7462	7173	7044	7188	7509	7965	8465	8916	9250	9418	9458
17	9514	9481	9278	8883	8423	7868	7410	7083	6945	7097	7433	7922	8458	8930	9291	9470	9514
18	9568	9544	9320	8903	8421	7832	7355	6985	6844	6999	7404	7880	8452	8946	9329	9523	9568
19	9625	9603	9359	8928	8425	7797	7273	6893	6741	6906	7314	7839	8449	8962	9369	9576	9625
20	9686	9662	9394	8956	8423	7756	7201	6800	6628	6808	7239	7793	8446	8986	9403	9629	9686
21	9741	9719	9430	8981	8424	7716	7129	6701	6524	6708	7163	7753	8444	9009	9436	9682	9741
22	9795	9778	9470	9006	8421	7676	7059	6608	6421	6610	7091	7713	8444	9032	9469	9743	9795
23	9845	9833	9518	9035	8417	7637	6982	6511	6315	6509	7012	7670	8442	9058	9502	9790	9845
24	9889	9883	9570	9061	8415	7601	6914	6416	6210	6402	6928	7627	8438	9083	9543	9839	9889
25	9922	9932	9623	9097	8418	7564	6845	6315	6103	6304	6849	7580	8432	9108	9582	9885	9922
26	9947	9971	9677	9127	8415	7523	6764	6221	5986	6208	6768	7535	8428	9136	9627	9922	9947
27	9951	10002	9733	9156	8411	7481	6693	6123	5871	6101	6688	7489	8424	9160	9673	9955	9951
28	9943	10022	9790	9180	8402	7435	6621	6019	5755	5997	6601	7425	8415	9188	9716	9973	9943
29	9924	10028	9839	9215	8400	7415	6547	5914	5633	5870	6522	7419	8402	9209	9765	9977	9924
30	9894	10021	9894	9247	8398	7415	6478	5794	5510	5757	6441	7393	8393	9229	9813	9972	9894
31	9853	9999	9942	9274	8395	7365	6407	5684	5372	5640	6361	7325	8381	9252	9857	9951	9853
32	9806	9968	9989	9307	8399	7319	6329	5572	5245	5527	6283	7279	8377	9277	9904	9914	9806
33	9742	9930	10033	9341	8399	7285	6253	5454	5106	5407	6201	7231	8373	9299	9943	9878	9742
34	9666	9885	10058	9377	8397	7250	6178	5339	4974	5286	6107	7191	8366	9329	9977	9831	9666
35	9574	9827	10077	9407	8392	7211	6092	5206	4833	5146	6014	7144	8360	9358	10001	9773	9574
36	9466	9756	10099	9449	8389	7169	6014	5084	4681	5020	5930	7095	8339	9389	10015	9713	9466
37	9321	9673	10105	9490	8380	7137	5923	4959	4542	4893	5840	7047	8326	9420	10028	9632	9321
38	9170	9578	10108	9524	8378	7104	5839	4835	4405	4769	5740	7001	8315	9446	10032	9526	9170
39	8999	9453	10098	9560	8377	7066	5748	4711	4261	4626	5648	6951	8303	9482	10025	9417	8999
40	8810	9322	10083	9603	8375	7026	5660	4574	4130	4497	5550	6897	8289	9511	10010	9294	8810
41	8582	9174	10062	9640	8378	6987	5564	4450	4000	4373	5448	6843	8275	9546	9989	9152	8582
42	8357	9006	10041	9681	8381	6940	5474	4330	3866	4254	5352	6787	8269	9581	9958	8977	8357
43	8118	8802	10002	9718	8384	6900	5370	4208	3746	4135	5240	6736	8262	9619	9927	8800	8118
44	7866	8599	9959	9760	8389	6858	5268	4079	3635	4010	5137	6683	8257	9655	9895	8601	7866
45	7601	8370	9891	9798	8395	6811	5163	3965	3520	3897	5028	6624	8258	9694	9839	8387	7601
46	7321	8133	9822	9840	8395	6768	5059	3859	3414	3788	4919	6571	8265	9740	9777	8163	7321

47	7029	7891	9739	9878	8391	6719	4940	3750	3314	3683	4809	6515	8260	9776	9705	7910	7029
48	6742	7599	9639	9911	8382	6673	4832	3654	3223	3583	4699	6454	8246	9805	9627	7653	6742
49	6459	7335	9517	9954	8382	6627	4720	3547	3135	3483	4574	6394	8233	9845	9537	7398	6459
50	6172	7063	9391	9996	8386	6573	4611	3459	3044	3390	4463	6329	8225	9881	9425	7123	6172
51	5862	6739	9248	10036	8391	6520	4488	3369	2957	3307	4349	6264	8215	9921	9308	6844	5862
52	5584	6448	9090	10056	8390	6462	4370	3286	2879	3222	4233	6197	8209	9964	9178	6565	5584
53	5307	6168	8914	10076	8394	6398	4257	3192	2804	3132	4109	6129	8208	9996	9028	6272	5307
54	5029	5867	8700	10099	8401	6336	4143	3109	2729	3054	3998	6052	8212	10033	8864	5990	5029
55	4758	5561	8495	10114	8403	6268	4030	3033	2650	2977	3892	5964	8199	10069	8671	5692	4758
56	4487	5287	8272	10126	8403	6194	3904	2951	2576	2901	3781	5880	8197	10098	8481	5429	4487
57	4200	4988	8033	10134	8409	6118	3795	2866	2505	2818	3672	5794	8189	10129	8275	5145	4200
58	3952	4698	7760	10135	8414	6037	3688	2784	2433	2739	3574	5700	8192	10154	8062	4860	3952
59	3724	4423	7482	10130	8423	5944	3579	2704	2356	2663	3476	5587	8187	10168	7817	4592	3724
60	3505	4150	7220	10124	8437	5848	3469	2619	2268	2580	3372	5482	8185	10183	7587	4329	3505
61	3289	3887	6933	10121	8451	5739	3349	2532	2185	2499	3278	5375	8185	10190	7345	4073	3289
62	3087	3617	6635	10113	8476	5624	3239	2431	2098	2402	3169	5257	8189	10197	7058	3797	3087
63	2897	3376	6331	10096	8496	5501	3125	2335	1994	2309	3067	5125	8207	10200	6775	3546	2897
64	2722	3162	6011	10085	8524	5377	3005	2228	1899	2206	2964	4998	8220	10208	6472	3326	2722
65	2544	2955	5721	10074	8553	5243	2870	2122	1802	2105	2858	4872	8238	10219	6205	3116	2544
66	2384	2768	5411	10062	8575	5088	2738	2000	1701	1993	2739	4730	8264	10226	5917	2901	2384
67	2230	2572	5110	10052	8611	4936	2604	1871	1595	1875	2609	4593	8294	10227	5609	2725	2230
68	2085	2399	4810	10050	8642	4741	2461	1747	1457	1757	2483	4427	8328	10246	5329	2526	2085
69	1937	2232	4542	10041	8655	4545	2305	1609	1330	1630	2355	4270	8344	10267	5045	2356	1937
70	1807	2066	4242	10040	8631	4323	2147	1458	1122	1481	2216	4097	8364	10302	4753	2198	1807
71	1686	1930	3966	10015	8524	4075	2001	1319	936	1346	2065	3916	8372	10341	4496	2059	1686
72	1574	1787	3684	9973	8343	3774	1840	1201	799	1228	1918	3707	8336	10358	4198	1908	1574
73	1442	1651	3413	9884	8089	3424	1676	1092	695	1110	1779	3462	8257	<b>10375</b>	3945	1767	1442
74	1318	1530	3143	9716	7695	3080	1504	974	620	968	1626	3207	8086	10373	3666	1640	1318
75	1190	1412	2844	9464	7123	2766	1338	849	555	816	1448	2940	7837	10316	3396	1518	1190
76	1084	1298	2588	9125	6419	2466	1191	731	500	692	1300	2658	7472	10209	3130	1402	1084
77	970	1187	2308	8668	5631	2192	1050	634	448	600	1177	2379	7023	10013	2878	1286	970
78	862	1087	2055	8068	4768	1905	895	542	397	517	1049	2132	6390	9709	2602	1182	862
79	774	981	1791	7334	3827	1673	785	461	348	445	928	1902	5679	9249	2333	1075	774
80	670	889	1560	6411	2986	1462	664	385	311	378	794	1680	4958	8516	2066	965	670
81	582	790	1314	5509	2212	1235	505	324	268	326	689	1453	4116	7671	1786	866	582
82	503	682	1087	4552	1519	1007	371	266	225	270	573	1245	3316	6727	1519	769	503
83	426	606	886	3577	972	781	265	214	188	221	456	997	2545	5677	1270	669	426
84	362	512	696	2682	563	551	188	155	149	174	319	737	1881	4574	1015	586	362
85	283	413	522	1847	344	310	129	108	108	127	222	512	1254	3598	814	488	283
86	217	307	354	1174	212	158	73	66	67	82	140	307	768	2579	600	379	217
87	148	201	216	586	122	77	35	40	40	53	81	182	441	1655	416	270	148
88	82	102	102	221	56	33	21	17	17	30	38	92	246	891	254	163	82
89	36	34	41	62	38	28	16	14	15	14	23	39	123	393	116	73	36
90	24	21	28	38	32	24	19	17	17	16	19	28	58	105	50	29	24
91	22	13	20	37	34	21	18	15	13	11	22	27	44	52	39	24	22
92	18	18	22	40	33	26	19	15	13	13	21	24	43	40	32	25	18
93	20	16	23	33	29	22	17	13	13	8	21	25	45	45	27	24	20
94	16	15	20	31	27	22	16	15	13	16	20	21	41	41	27	22	16
95	18	16	22	31	27	22	18	15	12	14	16	9	39	36	24	22	18

96	20	13	22	24	24	20	19	15	13	14	13	17	29	36	29	19	20
97	16	18	17	29	25	22	15	12	13	14	16	23	37	27	26	19	16
98	15	16	21	22	25	17	16	13	11	12	17	21	32	35	22	17	15
99	15	15	19	26	19	21	20	14	14	12	15	23	28	22	21	20	15
100	16	14	17	27	23	20	18	14	15	11	17	18	27	27	22	7	16
101	13	16	17	24	23	23	20	13	8	11	18	20	20	30	20	17	13
102	15	15	18	23	24	23	21	14	13	15	17	22	27	27	22	16	15
103	15	13	16	22	23	22	21	18	15	14	16	20	31	20	24	15	15
104	14	14	19	23	25	24	17	18	10	13	13	24	28	26	21	18	14
105	16	14	10	24	22	24	23	12	11	13	14	22	28	23	22	16	16
106	16	13	16	19	24	19	23	15	14	12	17	24	27	17	23	17	16
107	14	15	16	22	21	22	22	16	11	10	15	22	26	23	18	18	14
108	17	13	16	17	24	23	21	18	15	15	13	24	18	24	19	18	17
109	18	18	16	24	22	24	22	18	15	13	13	21	25	23	19	17	18
110	15	13	18	22	13	22	23	18	15	15	16	24	27	20	16	19	15
111	21	15	17	19	22	17	21	17	18	16	17	21	22	20	16	15	21
112	21	15	12	19	21	20	13	16	21	15	15	20	24	14	17	15	21
113	22	12	15	21	19	16	20	19	21	13	14	17	26	18	17	17	22
114	23	16	16	21	24	22	21	16	23	16	15	17	21	16	16	17	23
115	26	18	18	17	19	20	20	17	21	16	17	21	24	16	17	16	26
116	26	15	15	18	24	23	21	19	22	16	17	15	24	20	16	16	26
117	23	14	17	20	20	23	18	19	20	15	18	19	26	9	15	17	23
118	23	15	16	22	20	20	17	13	26	16	19	19	26	15	17	16	23
119	24	10	12	19	19	19	20	20	23	15	19	19	22	16	16	15	24
120	22	13	15	20	22	19	22	19	24	15	18	22	22	18	17	16	22
121	15	13	16	16	20	17	22	16	21	17	17	13	20	19	16	15	15
122	23	17	13	14	20	17	23	23	21	16	21	20	23	18	15	14	23
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**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ISSUE DATE] 2018-8-30 18:22  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-240-T3  
[\_TOTALLUMINAIRELUMENS] 32549.3  
[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.