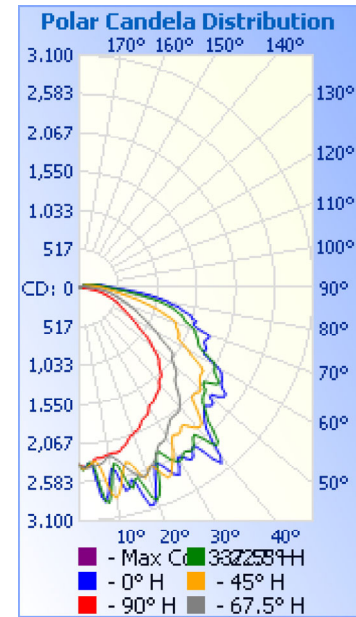


Photometrics Pro

Luminaire Photometric Report

Filename: Wall Pack SWP02 55W - 277V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-SWP-4000-55 277V
Lamp Output: 1 lamp, rated Lumens/lamp: 7483.3
Max Candela: 3,088.0 at Horizontal: 337.5°, Vertical: 20°
Input Wattage: 56.45
Luminous Opening: Point
Test Lab: Shenzhen Belling Test Laboratory
Photometry : Type C
Nema Type: 7 X 7

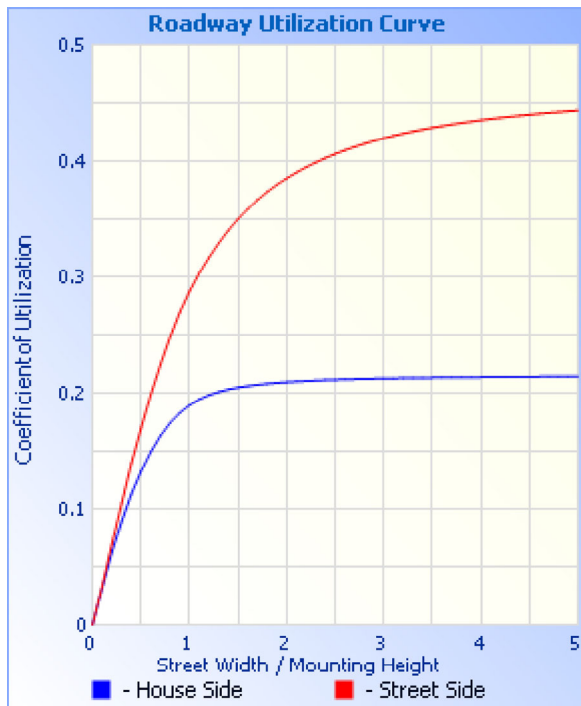
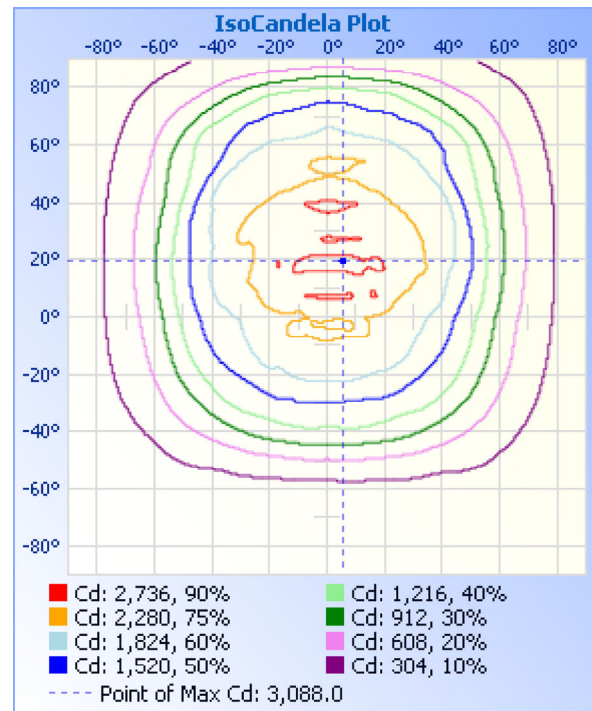
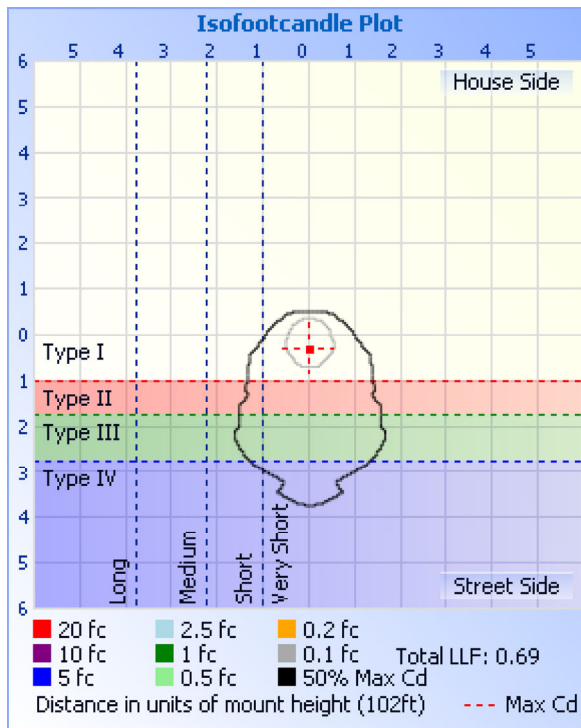


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	454.4	
Max Cd, 80 to <90 Deg:	1,230.4	
	Lumens	% Lamp
Downward Street Side:	4,952.3	66.2%
Downward House Side:	2,287.8	30.6%
Downward Total:	7,240.1	96.7%
Upward Street Side:	207.8	2.8%
Upward House Side:	35.5	0.5%
Upward Total:	243.2	3.3%
Total Lumens:	7,483.3	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.8%	7,092.9	157	152.6
Beam (50%):	65.2%	4,882.5	98.4	104.2
Total:	100%	7,480.3		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,907.5	25.5%	25.5%
0-40	3,123.9	41.7%	41.7%
0-60	5,481.6	73.3%	73.3%
60-90	1,757.9	23.5%	23.5%
70-100	1,038.0	13.9%	13.9%
90-120	219.3	2.9%	2.9%
0-90	7,239.5	96.7%	96.7%
90-180	243.3	3.3%	3.3%
0-180	7,482.8	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	228.9	3.1%	90-100	126.8	1.7%
10-20	667.4	8.9%	100-110	63.8	0.9%
20-30	1,011.2	13.5%	110-120	28.7	0.4%
30-40	1,216.4	16.3%	120-130	10.0	0.1%
40-50	1,253.9	16.8%	130-140	4.5	0.1%
50-60	1,103.8	14.8%	140-150	3.7	0%
60-70	846.8	11.3%	150-160	3.1	0%
70-80	608.1	8.1%	160-170	2.0	0%
80-90	303.0	4.0%	170-180	0.7	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	8.44 fc	42.9 ft	38.7 ft
33.3ft	2.12 fc	85.6 ft	77.2 ft
50.0ft	0.94 fc	128.5 ft	115.9 ft
66.7ft	0.53 fc	171.5 ft	154.6 ft
83.3ft	0.34 fc	214.1 ft	193.1 ft
100.0ft	0.24 fc	257.1 ft	231.8 ft

■ Vert. Spread: 104.2°
■ Horiz. Spread: 98.4°

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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.97	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1	1.07	1.02	.97	.93	1.04	.99	.95	.80	.94	.91	.88	.90	.87	.84	.86	.83	.81	.79
2	.97	.88	.81	.75	.94	.86	.79	.66	.82	.76	.72	.78	.74	.69	.75	.71	.67	.65
3	.88	.77	.69	.62	.85	.75	.68	.56	.72	.65	.60	.69	.63	.58	.66	.61	.57	.55

4	.81	.68	.59	.53	.78	.67	.58	.48	.64	.57	.51	.61	.55	.50	.59	.53	.49	.46
5	.74	.61	.52	.45	.72	.60	.51	.42	.57	.50	.44	.55	.48	.43	.53	.47	.42	.40
6	.69	.55	.46	.39	.66	.54	.45	.37	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7	.64	.50	.41	.35	.62	.49	.40	.33	.47	.39	.34	.45	.39	.34	.44	.38	.33	.31
8	.59	.45	.37	.31	.57	.45	.36	.29	.43	.36	.30	.42	.35	.30	.40	.34	.30	.28
9	.55	.42	.33	.28	.54	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10	.52	.38	.31	.25	.50	.38	.30	.24	.37	.30	.25	.35	.29	.25	.34	.29	.24	.22

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	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353
1	2420	2430	2419	2393	2375	2330	2278	2252	2231	2237	2247	2276	2333	2382	2422	2415	2420
2	2382	2402	2414	2405	2395	2307	2214	2166	2143	2143	2165	2222	2327	2409	2437	2404	2382
3	2331	2333	2371	2400	2382	2285	2193	2183	2191	2175	2130	2170	2294	2401	2406	2352	2331
4	2363	2334	2332	2374	2346	2248	2243	2326	2348	2314	2184	2144	2294	2383	2368	2343	2363
5	2568	2457	2311	2383	2286	2218	2363	2422	2434	2408	2298	2125	2319	2386	2348	2464	2568
6	2799	2679	2347	2372	2272	2241	2417	2414	2409	2385	2356	2141	2355	2378	2412	2690	2799
7	2876	2863	2472	2357	2279	2288	2398	2351	2353	2309	2358	2157	2353	2378	2552	2880	2876
8	2774	2892	2638	2335	2270	2331	2349	2293	2278	2254	2335	2201	2340	2376	2731	2872	2774
9	2580	2745	2791	2291	2256	2380	2282	2224	2205	2194	2311	2262	2311	2357	2872	2703	2580
10	2450	2522	2843	2272	2248	2416	2232	2188	2177	2153	2300	2331	2298	2347	2920	2486	2450
11	2484	2384	2792	2283	2239	2422	2187	2177	2155	2155	2262	2354	2301	2367	2849	2388	2484
12	2645	2407	2681	2330	2244	2416	2146	2153	2135	2130	2189	2361	2294	2405	2707	2462	2645
13	2777	2545	2538	2370	2243	2396	2133	2107	2055	2092	2141	2364	2290	2477	2550	2629	2777
14	2753	2717	2444	2434	2234	2357	2122	2030	1998	2039	2123	2348	2269	2589	2438	2775	2753
15	2653	2762	2400	2502	2200	2310	2089	1964	2020	1969	2113	2307	2244	2676	2436	2756	2653
16	2699	2664	2423	2559	2183	2267	2059	1988	2018	1983	2102	2264	2210	2742	2515	2652	2699
17	2904	2646	2513	2611	2153	2229	2017	1983	1960	2005	2071	2232	2182	2790	2617	2675	2904
18	3054	2779	2625	2648	2113	2162	1950	1943	1893	1981	2010	2209	2182	2768	2693	2854	3054
19	3054	2950	2681	2658	2083	2087	1924	1891	1887	1929	1936	2167	2157	2721	2693	3029	3054
20	2976	3013	2650	2633	2074	2062	1952	1870	1897	1884	1912	2124	2148	2649	2611	3088	2976
21	2837	2965	2568	2592	2051	2058	1949	1881	1865	1886	1910	2103	2131	2588	2572	3034	2837
22	2679	2856	2546	2553	2043	2062	1889	1868	1830	1867	1907	2060	2106	2539	2628	2922	2679
23	2558	2683	2622	2519	2026	2048	1846	1855	1751	1845	1892	2037	2096	2475	2753	2753	2558
24	2549	2508	2723	2484	1993	2020	1807	1792	1704	1810	1857	2011	2068	2428	2846	2584	2549
25	2621	2418	2791	2431	1953	1998	1792	1707	1693	1713	1822	1988	2028	2402	2878	2498	2621
26	2713	2429	2775	2367	1939	1992	1792	1716	1671	1686	1807	1959	2016	2389	2830	2535	2713
27	2792	2507	2700	2333	1925	1941	1772	1706	1625	1670	1799	1942	1999	2382	2761	2616	2792
28	2824	2585	2632	2329	1917	1864	1736	1670	1508	1632	1768	1906	1967	2376	2651	2688	2824
29	2729	2628	2563	2322	1891	1796	1702	1589	1482	1596	1722	1870	1950	2380	2534	2758	2729
30	2612	2660	2478	2296	1843	1764	1642	1508	1510	1510	1686	1837	1917	2378	2432	2781	2612
31	2616	2646	2386	2251	1816	1755	1592	1520	1466	1467	1642	1779	1896	2352	2362	2716	2616
32	2674	2602	2329	2208	1813	1730	1585	1519	1412	1481	1587	1728	1881	2322	2355	2643	2674
33	2723	2588	2327	2180	1807	1702	1568	1451	1419	1452	1570	1691	1861	2294	2379	2635	2723
34	2702	2620	2348	2142	1782	1665	1512	1410	1430	1389	1558	1658	1847	2281	2393	2668	2702
35	2607	2627	2337	2121	1760	1621	1445	1429	1363	1372	1512	1641	1814	2287	2391	2672	2607
36	2593	2576	2296	2118	1744	1586	1393	1380	1383	1387	1447	1613	1774	2304	2389	2623	2593
37	2711	2501	2286	2113	1728	1565	1359	1344	1294	1342	1398	1583	1742	2304	2414	2543	2711
38	2888	2481	2333	2117	1716	1535	1347	1332	1202	1317	1361	1552	1718	2281	2442	2509	2888
39	2993	2556	2389	2104	1687	1515	1325	1238	1141	1276	1334	1509	1698	2237	2468	2585	2993
40	2913	2678	2429	2070	1644	1496	1287	1174	1038	1199	1300	1475	1663	2169	2478	2709	2913
41	2672	2777	2446	2029	1616	1475	1256	1101	1062	1119	1261	1459	1616	2086	2466	2795	2672
42	2515	2751	2426	1991	1609	1439	1238	1031	1005	1052	1222	1435	1584	2018	2405	2733	2515
43	2441	2615	2341	1937	1597	1391	1206	1013	971	1008	1202	1409	1545	1956	2314	2566	2441
44	2387	2460	2237	1865	1558	1343	1160	962	896	986	1185	1380	1516	1932	2205	2428	2387
45	2341	2388	2132	1809	1508	1287	1114	917	854	927	1149	1335	1484	1927	2147	2364	2341
46	2297	2312	2081	1763	1469	1233	1051	851	787	881	1093	1292	1449	1918	2165	2307	2297

47	2304	2240	2074	1743	1448	1190	983	800	731	820	1039	1248	1403	1899	2192	2269	2304
48	2353	2202	2086	1734	1416	1155	930	743	666	768	979	1201	1358	1857	2224	2242	2353
49	2352	2180	2107	1703	1366	1107	874	688	609	703	925	1153	1319	1814	2227	2229	2352
50	2268	2170	2101	1656	1303	1060	815	622	557	650	875	1097	1277	1777	2194	2236	2268
51	2254	2152	2062	1611	1248	1011	769	570	508	594	809	1053	1232	1758	2166	2207	2254
52	2352	2084	2027	1562	1202	958	715	522	462	543	764	1014	1188	1733	2158	2127	2352
53	2403	2074	2003	1540	1155	914	663	477	424	495	716	972	1141	1698	2114	2133	2403
54	2400	2156	1985	1535	1100	867	608	432	386	449	666	924	1101	1647	2071	2233	2400
55	2312	2234	1981	1507	1034	826	558	393	350	410	614	872	1055	1565	2035	2297	2312
56	2269	2237	1981	1433	975	781	513	357	316	374	563	827	1001	1486	1991	2293	2269
57	2256	2168	1925	1346	930	745	471	324	288	339	514	778	954	1424	1910	2229	2256
58	2227	2117	1824	1269	891	703	428	294	261	308	471	737	910	1389	1792	2188	2227
59	2199	2096	1728	1226	843	658	391	269	240	282	430	695	879	1358	1710	2153	2199
60	2133	2082	1669	1194	801	619	353	248	223	257	388	647	839	1295	1685	2117	2133
61	1988	2034	1596	1138	766	578	321	231	207	238	354	614	797	1226	1649	2075	1988
62	1876	1922	1511	1076	725	538	293	213	193	220	322	578	753	1171	1578	1971	1876
63	1849	1822	1471	1023	686	502	267	199	182	206	293	545	714	1145	1553	1867	1849
64	1876	1766	1470	980	662	463	241	186	171	193	265	509	681	1089	1553	1798	1876
65	1849	1740	1455	924	623	423	221	174	159	181	243	474	629	1029	1555	1780	1849
66	1814	1724	1440	876	601	386	202	164	147	169	223	435	610	999	1538	1755	1814
67	1811	1696	1414	844	575	352	186	152	137	159	205	401	598	969	1504	1725	1811
68	1827	1667	1383	811	544	319	172	142	125	147	189	364	544	910	1468	1716	1827
69	1847	1644	1377	765	532	287	158	131	111	137	175	332	534	856	1466	1722	1847
70	1821	1629	1369	722	496	256	146	119	100	126	163	301	506	824	1453	1711	1821
71	1677	1580	1329	692	477	229	135	106	90	115	151	271	472	795	1400	1650	1677
72	1594	1504	1252	659	448	202	124	98	83	103	141	246	446	747	1317	1546	1594
73	1596	1463	1180	625	417	180	115	88	76	94	129	218	418	705	1234	1478	1596
74	1619	1436	1111	586	393	165	106	82	72	87	120	197	394	677	1168	1475	1619
75	1545	1406	1036	559	369	151	97	75	67	81	111	177	370	636	1102	1456	1545
76	1530	1349	958	535	343	138	89	69	63	74	102	157	342	609	1022	1395	1530
77	1455	1304	884	499	317	128	81	63	58	68	94	144	320	575	954	1345	1455
78	1378	1243	821	478	292	119	75	58	54	62	86	130	299	533	884	1296	1378
79	1343	1172	741	449	271	113	69	54	49	57	80	120	282	506	821	1220	1343
80	1230	1105	674	428	242	106	64	48	46	51	74	113	256	488	755	1167	1230
81	1193	1016	618	401	203	100	58	43	43	47	67	103	226	465	693	1078	1193
82	1107	926	565	376	161	94	52	39	39	42	63	98	188	426	641	999	1107
83	1021	834	524	347	127	88	47	35	35	38	57	91	151	401	587	907	1021
84	933	751	482	322	102	81	42	30	30	33	51	85	121	365	540	820	933
85	832	674	445	291	81	76	37	25	26	29	47	80	94	338	496	738	832
86	734	606	415	263	63	70	32	22	22	25	41	74	74	303	458	652	734
87	654	541	385	233	53	66	28	17	18	21	37	69	59	271	421	581	654
88	576	484	359	205	47	61	24	13	15	16	33	64	49	238	392	524	576
89	511	441	339	180	44	57	20	10	10	12	29	60	44	215	368	473	511
90	454	405	314	157	44	52	17	7	5	9	25	56	43	192	345	433	454
91	411	374	295	139	45	49	16	6	5	7	22	52	43	168	322	396	411
92	385	349	272	123	46	46	15	5	5	6	21	50	42	150	299	367	385
93	361	328	255	112	48	43	13	6	5	6	19	47	43	135	278	344	361
94	340	310	237	102	50	41	13	6	5	6	18	44	44	122	261	325	340
95	320	292	224	96	50	38	12	6	5	7	16	42	45	111	246	305	320

96	303	276	211	93	50	35	11	6	4	7	16	40	45	104	232	289	303
97	289	258	196	88	50	34	11	6	5	6	16	38	44	97	217	270	289
98	273	243	182	85	49	31	9	6	5	5	14	36	44	92	202	255	273
99	257	225	171	82	47	30	10	6	5	7	13	35	43	88	187	236	257
100	242	207	156	79	46	28	10	6	5	6	13	33	43	84	171	220	242
101	225	191	144	76	44	26	10	6	5	6	12	31	41	80	156	204	225
102	210	178	133	72	42	24	9	6	4	7	11	30	40	77	142	188	210
103	193	162	122	67	41	23	8	5	5	7	9	28	38	73	129	174	193
104	176	148	114	62	39	22	7	6	5	7	11	27	36	68	118	159	176
105	161	137	106	58	37	20	8	6	6	7	10	25	35	63	109	147	161
106	149	127	98	54	35	19	8	5	5	6	10	23	33	58	101	134	149
107	136	119	91	51	33	18	7	5	6	7	10	21	32	53	95	125	136
108	128	112	86	47	33	17	7	6	6	7	9	20	30	48	88	116	128
109	118	105	81	44	31	16	6	6	6	7	10	19	28	44	83	109	118
110	107	98	76	42	29	15	6	6	6	7	9	18	26	41	78	102	107
111	97	92	72	39	27	14	6	7	6	6	8	18	25	38	75	95	97
112	90	84	68	36	25	13	6	7	6	6	8	16	24	35	71	88	90
113	82	77	61	33	23	13	7	7	5	8	8	16	23	33	66	80	82
114	73	71	55	31	21	12	6	7	6	7	8	14	21	31	60	72	73
115	66	64	47	29	20	11	6	6	6	7	7	14	19	28	52	67	66
116	59	60	39	25	19	11	6	6	5	7	7	13	18	26	44	62	59
117	55	56	31	24	18	9	6	7	5	7	6	12	16	24	37	57	55
118	51	50	26	22	16	10	5	7	5	8	7	12	16	23	31	52	51
119	48	45	21	20	14	7	6	5	6	7	6	11	15	20	25	47	48
120	45	41	17	19	14	9	5	6	6	7	7	10	14	19	20	43	45
121	42	38	13	17	13	8	6	6	6	6	6	9	13	17	15	40	42
122	40	34	13	16	12	8	6	7	6	8	6	10	12	16	13	36	40
123	32	29	11	14	12	8	6	6	6	7	6	9	11	14	11	31	32
124	26	24	11	11	9	5	6	8	6	7	6	8	10	13	9	26	26
125	21	18	9	12	9	6	6	7	6	7	5	8	8	13	9	20	21
126	18	13	9	11	9	6	6	7	7	7	6	8	10	11	8	17	18
127	14	11	8	11	7	6	6	7	7	7	6	7	7	10	6	12	14
128	10	8	9	10	8	6	5	7	7	6	7	7	7	11	7	7	10
129	8	4	8	9	8	5	5	7	6	8	7	7	6	9	7	6	8
130	6	5	7	9	4	6	6	7	6	7	6	7	7	8	6	4	6
131	4	5	6	7	7	5	6	7	5	7	7	6	6	7	5	4	4
132	3	5	7	8	6	6	6	7	6	7	5	7	6	7	5	4	3
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB] Shenzhen Belling Test Laboratory
[ISSUEDATE] 2018-7-31 20:29
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-SWP-4000-55 277V
[_TOTALLUMINAIRELUMENS] 7482.8
[TESTINST] GPM-3000
[TESTDIST] 17.398 M
[TESTTEMPERATURE] 28.7 '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.