



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WPAL-L49-850-BZ.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] Q2014072502
 [DATE] 2014-7-25
 [MANUFAC]
 [LUMCAT] WPAL-L49-850-BZ
 [LUMINAIRE] WPAL with QSSI 58w LED array
 [LAMPCAT] SAMSUNG 561B LEDs

CHARACTERISTICS

Lumens Per Lamp	7927 (1 lamp)
Total Lamp Lumens	7927
Luminaire Lumens	4944
Total Luminaire Efficiency	62 %
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	69
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.66
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0.0	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348
2.5	987.012	990.106	977.730	968.447	946.789	931.318	909.660	872.531	850.872	847.778
5.0	1086.022	1101.493	1055.082	1005.576	956.071	943.695	906.566	835.402	804.461	788.991
7.5	1197.409	1172.657	1110.775	1104.587	1055.082	962.259	900.378	850.872	804.461	748.768
10.0	1314.984	1265.479	1181.939	1172.657	1055.082	990.106	909.660	807.555	742.580	724.015
12.5	1386.148	1330.455	1324.267	1194.315	1126.246	999.388	897.284	788.991	720.921	643.569
15.0	1426.371	1364.490	1358.302	1293.326	1160.280	1021.047	884.907	764.238	668.322	597.158
17.5	1503.724	1438.748	1383.054	1321.173	1206.692	1027.235	866.343	733.297	631.193	532.182
20.0	1553.229	1519.194	1463.500	1389.242	1225.256	1036.517	841.590	696.168	581.687	470.300
22.5	1646.051	1608.922	1509.912	1454.218	1250.009	1033.423	816.838	659.039	525.994	420.795
25.0	1714.121	1664.616	1537.758	1441.842	1262.385	1021.047	795.179	615.722	482.677	377.478
27.5	1714.121	1723.403	1550.135	1444.936	1256.197	1024.141	776.614	587.875	439.360	337.255
30.0	1797.661	1751.250	1587.264	1478.971	1262.385	1033.423	767.332	553.841	411.513	303.220
32.5	1853.354	1776.002	1683.180	1506.818	1271.667	1024.141	748.768	532.182	380.572	275.373
35.0	1915.236	1822.414	1741.968	1494.441	1271.667	1011.765	742.580	498.147	346.537	244.432
37.5	1992.588	1878.107	1782.191	1503.724	1265.479	993.200	711.639	473.394	315.596	213.492
40.0	2023.529	1933.801	1822.414	1540.852	1259.291	977.730	680.698	439.360	284.656	188.739
42.5	1974.024	1964.741	1819.320	1562.511	1259.291	946.789	643.569	408.419	259.903	167.080
45.0	1967.836	1967.836	1782.191	1581.075	1240.727	918.942	603.346	371.290	225.868	148.516
47.5	2017.341	2004.965	1791.473	1550.135	1237.632	878.719	556.935	340.349	194.927	129.951
50.0	2057.564	1980.212	1760.532	1565.605	1209.786	835.402	516.712	312.502	170.175	114.481
52.5	2085.411	2029.717	1763.626	1543.946	1175.751	785.897	482.677	278.467	145.422	102.105
55.0	2054.470	1961.647	1769.814	1506.818	1132.434	739.485	454.830	244.432	129.951	89.728
57.5	2008.059	1902.860	1776.002	1466.594	1082.928	699.262	420.795	213.492	111.387	77.352
60.0	1952.365	1862.637	1738.874	1432.560	1030.329	662.133	389.854	188.739	99.011	64.976
62.5	1850.260	1732.685	1673.898	1395.431	1002.482	612.628	355.819	157.798	86.634	55.693
65.0	1847.166	1701.745	1602.734	1349.019	949.883	572.405	315.596	133.046	74.258	43.317
67.5	1760.532	1633.675	1503.724	1284.044	909.660	544.558	290.844	111.387	64.976	34.035
70.0	1673.898	1587.264	1448.030	1197.409	860.155	513.617	259.903	95.917	55.693	27.847
72.5	1630.581	1534.664	1398.525	1144.810	788.991	476.489	228.962	83.540	49.505	27.847
75.0	1540.852	1472.783	1330.455	1070.552	720.921	439.360	198.021	74.258	43.317	24.753
77.5	1485.159	1407.807	1250.009	1002.482	655.945	386.760	163.986	64.976	37.129	24.753
80.0	1392.337	1342.831	1160.280	915.848	584.781	343.443	123.763	58.788	37.129	21.659
82.5	1296.420	1243.821	1089.117	847.778	538.370	309.408	86.634	58.788	40.223	21.659
85.0	1215.974	1144.810	999.388	773.520	491.959	269.185	58.788	55.693	37.129	21.659
87.5	1089.117	1045.799	925.130	702.356	442.454	228.962	49.505	58.788	34.035	18.564
90.0	1027.235	959.165	823.026	640.475	396.042	191.833	49.505	55.693	34.035	21.659
92.5	915.848	853.966	736.391	566.217	355.819	154.704	52.599	52.599	34.035	18.564
95.0	838.496	788.991	649.757	498.147	300.126	120.669	55.693	49.505	30.941	18.564
97.5	758.050	708.545	587.875	436.265	256.809	92.822	55.693	49.505	30.941	18.564
100.0	662.133	637.381	525.994	389.854	225.868	74.258	58.788	46.411	27.847	18.564
102.5	575.499	535.276	464.112	340.349	188.739	71.164	58.788	43.317	24.753	18.564
105.0	498.147	464.112	396.042	300.126	157.798	68.070	55.693	40.223	24.753	15.470
107.5	423.889	402.231	352.725	253.715	129.951	61.882	49.505	37.129	24.753	18.564
110.0	377.478	355.819	309.408	216.586	111.387	58.788	46.411	34.035	21.659	15.470
112.5	343.443	315.596	266.091	185.645	95.917	55.693	43.317	34.035	21.659	15.470
115.0	303.220	269.185	222.774	151.610	86.634	49.505	40.223	27.847	21.659	15.470
117.5	250.621	228.962	194.927	133.046	74.258	43.317	37.129	24.753	18.564	15.470
120.0	216.586	198.021	167.080	114.481	68.070	40.223	34.035	24.753	18.564	12.376
122.5	185.645	170.175	142.328	102.105	58.788	37.129	30.941	24.753	18.564	12.376
125.0	151.610	142.328	123.763	89.728	49.505	30.941	27.847	21.659	18.564	12.376
127.5	133.046	123.763	108.293	74.258	43.317	27.847	24.753	21.659	15.470	12.376
130.0	111.387	108.293	92.822	64.976	34.035	27.847	24.753	18.564	18.564	12.376
132.5	99.011	92.822	77.352	55.693	24.753	21.659	21.659	15.470	12.376	12.376

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CANDELA TABULATION - (Cont.)

135.0	83.540	77.352	68.070	46.411	24.753	21.659	21.659	18.564	15.470	12.376
137.5	71.164	68.070	58.788	37.129	21.659	21.659	18.564	18.564	12.376	15.470
140.0	61.882	55.693	46.411	24.753	18.564	18.564	18.564	15.470	12.376	12.376
142.5	52.599	49.505	37.129	15.470	18.564	18.564	18.564	15.470	12.376	12.376
145.0	40.223	37.129	24.753	15.470	18.564	15.470	15.470	12.376	15.470	15.470
147.5	30.941	27.847	15.470	15.470	18.564	15.470	15.470	12.376	12.376	12.376
150.0	21.659	15.470	12.376	12.376	12.376	15.470	12.376	12.376	12.376	15.470
152.5	12.376	15.470	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	9.282	12.376	15.470	15.470	15.470
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	15.470	15.470
160.0	12.376	12.376	12.376	15.470	15.470	12.376	15.470	15.470	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	15.470	15.470	12.376	12.376	15.470
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
167.5	12.376	12.376	12.376	12.376	12.376	12.376	15.470	12.376	12.376	15.470
170.0	12.376	12.376	12.376	15.470	15.470	15.470	15.470	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.376	15.470	12.376	15.470	15.470	15.470	12.376
175.0	12.376	15.470	12.376	15.470	12.376	12.376	15.470	12.376	12.376	12.376
177.5	12.376	12.376	15.470	12.376	12.376	15.470	12.376	12.376	15.470	12.376
180.0	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0.0	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348	903.348
2.5	835.402	832.308	816.838	841.590	847.778	860.155	869.437	888.001	909.660	915.848
5.0	779.708	770.426	751.862	782.803	801.367	823.026	841.590	860.155	891.095	928.224
7.5	711.639	702.356	683.792	702.356	720.921	773.520	829.214	875.625	922.036	980.824
10.0	649.757	634.287	594.064	609.534	640.475	727.109	792.085	853.966	903.472	987.012
12.5	594.064	547.652	510.523	532.182	578.593	655.945	745.674	841.590	918.942	1024.141
15.0	519.806	467.206	442.454	464.112	513.617	587.875	689.980	807.555	900.378	1042.705
17.5	442.454	408.419	386.760	414.607	457.924	532.182	637.381	779.708	884.907	1055.082
20.0	396.042	365.102	352.725	377.478	411.513	470.300	587.875	736.391	860.155	1048.894
22.5	355.819	334.161	309.408	337.255	377.478	433.171	535.276	702.356	844.684	1070.552
25.0	321.784	297.032	272.279	297.032	334.161	389.854	491.959	665.228	823.026	1064.364
27.5	284.656	259.903	235.150	259.903	287.750	355.819	451.736	628.098	804.461	1067.458
30.0	247.527	219.680	198.021	222.774	253.715	321.784	420.795	590.970	785.897	1061.270
32.5	213.492	188.739	170.175	188.739	222.774	287.750	389.854	563.123	770.426	1045.799
35.0	185.645	163.986	148.516	163.986	188.739	256.809	365.102	532.182	758.050	1021.047
37.5	163.986	142.328	129.951	145.422	167.080	228.962	337.255	504.335	742.580	1005.576
40.0	142.328	120.669	111.387	123.763	145.422	198.021	309.408	473.394	714.733	987.012
42.5	123.763	108.293	95.917	108.293	129.951	176.363	281.561	442.454	677.604	983.918
45.0	108.293	92.822	86.634	95.917	111.387	157.798	247.527	405.325	643.569	940.601
47.5	95.917	74.258	74.258	80.446	102.105	142.328	216.586	377.478	597.158	906.566
50.0	83.540	68.070	64.976	71.164	89.728	123.763	185.645	334.161	560.029	853.966
52.5	74.258	58.788	55.693	61.882	77.352	108.293	157.798	306.314	522.900	795.179
55.0	61.882	46.411	43.317	49.505	64.976	95.917	139.234	269.185	491.959	764.238
57.5	52.599	40.223	34.035	40.223	55.693	80.446	117.575	241.338	454.830	739.485
60.0	40.223	27.847	24.753	30.941	46.411	68.070	102.105	207.303	417.701	714.733
62.5	34.035	18.564	18.564	18.564	34.035	58.788	92.822	176.363	386.760	665.228
65.0	21.659	12.376	12.376	12.376	24.753	49.505	80.446	148.516	355.819	618.816
67.5	18.564	12.376	12.376	12.376	18.564	40.223	68.070	120.669	321.784	584.781
70.0	15.470	12.376	12.376	12.376	18.564	30.941	61.882	99.011	284.656	538.370
72.5	15.470	12.376	12.376	12.376	18.564	24.753	52.599	89.728	253.715	495.053
75.0	15.470	15.470	12.376	12.376	15.470	27.847	46.411	77.352	216.586	461.018
77.5	12.376	12.376	15.470	15.470	18.564	24.753	43.317	68.070	185.645	423.889
80.0	15.470	12.376	9.282	12.376	15.470	24.753	43.317	64.976	145.422	383.666

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CANDELA TABULATION - (Cont.)

82.5	15.470	12.376	12.376	12.376	18.564	24.753	40.223	58.788	108.293	340.349
85.0	15.470	15.470	12.376	12.376	15.470	24.753	40.223	58.788	71.164	293.938
87.5	12.376	12.376	12.376	12.376	15.470	24.753	37.129	58.788	55.693	253.715
90.0	12.376	12.376	12.376	12.376	12.376	24.753	37.129	58.788	49.505	216.586
92.5	15.470	15.470	12.376	12.376	15.470	21.659	37.129	55.693	49.505	176.363
95.0	15.470	15.470	12.376	12.376	12.376	21.659	34.035	52.599	55.693	142.328
97.5	12.376	15.470	15.470	15.470	12.376	18.564	30.941	49.505	58.788	108.293
100.0	12.376	15.470	12.376	15.470	15.470	18.564	30.941	46.411	61.882	86.634
102.5	15.470	12.376	12.376	12.376	15.470	18.564	27.847	46.411	58.788	77.352
105.0	15.470	12.376	15.470	15.470	15.470	18.564	24.753	43.317	58.788	74.258
107.5	12.376	12.376	15.470	12.376	15.470	18.564	24.753	40.223	55.693	68.070
110.0	15.470	12.376	15.470	15.470	15.470	15.470	24.753	40.223	52.599	61.882
112.5	12.376	12.376	12.376	15.470	15.470	15.470	24.753	37.129	46.411	58.788
115.0	12.376	12.376	12.376	15.470	15.470	15.470	21.659	34.035	46.411	49.505
117.5	12.376	15.470	12.376	12.376	12.376	15.470	21.659	30.941	40.223	46.411
120.0	15.470	15.470	15.470	12.376	15.470	15.470	21.659	27.847	40.223	43.317
122.5	12.376	12.376	15.470	15.470	12.376	15.470	18.564	27.847	37.129	37.129
125.0	12.376	15.470	12.376	15.470	12.376	15.470	18.564	24.753	30.941	37.129
127.5	15.470	15.470	12.376	15.470	12.376	15.470	18.564	21.659	30.941	30.941
130.0	12.376	12.376	15.470	15.470	15.470	12.376	15.470	21.659	24.753	30.941
132.5	15.470	15.470	15.470	15.470	15.470	12.376	15.470	21.659	24.753	27.847
135.0	15.470	12.376	15.470	15.470	15.470	15.470	15.470	18.564	21.659	24.753
137.5	12.376	12.376	15.470	15.470	15.470	15.470	15.470	15.470	18.564	24.753
140.0	12.376	15.470	12.376	12.376	15.470	15.470	15.470	18.564	18.564	21.659
142.5	15.470	15.470	15.470	15.470	12.376	15.470	15.470	15.470	18.564	18.564
145.0	15.470	12.376	15.470	15.470	15.470	15.470	12.376	15.470	15.470	18.564
147.5	12.376	15.470	15.470	15.470	15.470	15.470	12.376	15.470	18.564	15.470
150.0	12.376	12.376	12.376	15.470	15.470	15.470	12.376	12.376	15.470	15.470
152.5	12.376	15.470	15.470	15.470	15.470	15.470	15.470	12.376	12.376	12.376
155.0	12.376	15.470	12.376	15.470	12.376	15.470	15.470	12.376	12.376	12.376
157.5	12.376	12.376	15.470	15.470	15.470	15.470	15.470	15.470	15.470	12.376
160.0	15.470	12.376	12.376	15.470	12.376	15.470	15.470	15.470	15.470	15.470
162.5	12.376	12.376	12.376	15.470	15.470	12.376	12.376	12.376	12.376	12.376
165.0	12.376	15.470	12.376	15.470	12.376	12.376	15.470	12.376	15.470	15.470
167.5	15.470	12.376	12.376	12.376	15.470	12.376	15.470	12.376	15.470	12.376
170.0	12.376	12.376	15.470	15.470	15.470	15.470	12.376	15.470	12.376	12.376
172.5	12.376	15.470	15.470	12.376	12.376	15.470	15.470	12.376	12.376	12.376
175.0	12.376	12.376	15.470	15.470	15.470	15.470	15.470	12.376	15.470	12.376
177.5	15.470	15.470	12.376	12.376	12.376	12.376	12.376	15.470	15.470	12.376
180.0	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119	13.119

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	903.348	903.348	903.348	903.348	903.348
2.5	931.318	952.977	971.542	990.106	987.012
5.0	959.165	1021.047	1045.799	1086.022	1086.022
7.5	1036.517	1082.928	1123.151	1178.845	1197.409
10.0	1082.928	1185.033	1225.256	1296.420	1314.984
12.5	1129.340	1246.915	1299.514	1349.019	1386.148
15.0	1200.504	1296.420	1383.054	1383.054	1426.371
17.5	1246.915	1358.302	1407.807	1435.654	1503.724
20.0	1280.950	1383.054	1441.842	1469.688	1553.229
22.5	1277.856	1448.030	1497.535	1553.229	1646.051
25.0	1280.950	1497.535	1568.699	1642.957	1714.121
27.5	1268.573	1488.253	1627.487	1704.839	1714.121

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CANDELA TABULATION - (Cont.)

30.0	1280.950	1509.912	1639.863	1794.567	1797.661
32.5	1290.232	1513.006	1673.898	1875.013	1853.354
35.0	1296.420	1543.946	1763.626	1887.389	1915.236
37.5	1296.420	1550.135	1890.484	1933.801	1992.588
40.0	1311.890	1590.358	1896.672	1961.647	2023.529
42.5	1308.796	1581.075	1865.731	1915.236	1974.024
45.0	1299.514	1602.734	1847.166	1921.424	1967.836
47.5	1271.667	1618.204	1828.602	1974.024	2017.341
50.0	1246.915	1605.828	1844.072	1974.024	2057.564
52.5	1200.504	1584.170	1840.978	2060.658	2085.411
55.0	1166.469	1559.417	1859.543	2023.529	2054.470
57.5	1110.775	1528.476	1825.508	1936.895	2008.059
60.0	1064.364	1513.006	1806.943	1912.142	1952.365
62.5	1011.765	1472.783	1735.780	1813.132	1850.260
65.0	977.730	1413.995	1661.521	1754.344	1847.166
67.5	934.413	1342.831	1553.229	1701.745	1760.532
70.0	884.907	1256.197	1506.818	1621.298	1673.898
72.5	832.308	1191.221	1444.936	1547.041	1630.581
75.0	770.426	1113.869	1392.337	1503.724	1540.852
77.5	708.545	1039.611	1296.420	1426.371	1485.159
80.0	649.757	968.447	1215.974	1395.431	1392.337
82.5	581.687	884.907	1132.434	1311.890	1296.420
85.0	532.182	813.743	1045.799	1197.409	1215.974
87.5	476.489	748.768	946.789	1086.022	1089.117
90.0	423.889	686.886	841.590	999.388	1027.235
92.5	377.478	618.816	764.238	884.907	915.848
95.0	337.255	547.652	674.510	826.120	838.496
97.5	290.844	485.771	615.722	733.297	758.050
100.0	247.527	430.077	556.935	665.228	662.133
102.5	210.398	380.572	495.053	563.123	575.499
105.0	179.457	327.973	423.889	491.959	498.147
107.5	148.516	284.656	377.478	426.983	423.889
110.0	120.669	238.244	334.161	380.572	377.478
112.5	105.199	204.209	287.750	334.161	343.443
115.0	95.917	170.175	241.338	290.844	303.220
117.5	83.540	145.422	207.303	247.527	250.621
120.0	74.258	126.857	176.363	213.492	216.586
122.5	64.976	111.387	151.610	179.457	185.645
125.0	55.693	95.917	133.046	151.610	151.610
127.5	46.411	80.446	114.481	133.046	133.046
130.0	40.223	71.164	95.917	111.387	111.387
132.5	30.941	61.882	86.634	95.917	99.011
135.0	24.753	49.505	71.164	80.446	83.540
137.5	24.753	40.223	61.882	68.070	71.164
140.0	21.659	30.941	49.505	58.788	61.882
142.5	18.564	18.564	40.223	49.505	52.599
145.0	15.470	15.470	27.847	37.129	40.223
147.5	15.470	15.470	18.564	27.847	30.941
150.0	12.376	12.376	12.376	15.470	21.659
152.5	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376
157.5	15.470	12.376	15.470	12.376	12.376
160.0	12.376	12.376	15.470	15.470	12.376
162.5	12.376	12.376	12.376	15.470	12.376
165.0	12.376	12.376	12.376	12.376	12.376
167.5	12.376	12.376	12.376	12.376	12.376

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

170.0	12.376	12.376	12.376	12.376	12.376
172.5	15.470	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376
180.0	13.119	13.119	13.119	13.119	13.119

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	349.93	4.40	7.10
0-30	769.85	9.70	15.60
0-40	1329.52	16.80	26.90
0-60	2683.5	33.90	54.30
0-80	3885.19	49.00	78.60
0-90	4304.62	54.30	87.10
10-90	4216.81	53.20	85.30
20-40	979.59	12.40	19.80
20-50	1637.73	20.70	33.10
40-70	2002.56	25.30	40.50
60-80	1201.7	15.20	24.30
70-80	553.12	7.00	11.20
80-90	419.42	5.30	8.50
90-110	447.17	5.60	9.00
90-120	540.59	6.80	10.90
90-130	590.37	7.40	11.90
90-150	628.54	7.90	12.70
90-180	639.86	8.10	12.90
110-180	192.69	2.40	3.90
0-180	4944.48	62.40	100.00

Total Luminaire Efficiency = 62.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.81
10-20	262.12
20-30	419.93
30-40	559.66
40-50	658.14
50-60	695.83
60-70	648.58
70-80	553.12
80-90	419.42
90-100	279.81
100-110	167.36
110-120	93.42
120-130	49.78
130-140	25.82
140-150	12.35
150-160	6.27
160-170	3.77
170-180	1.29

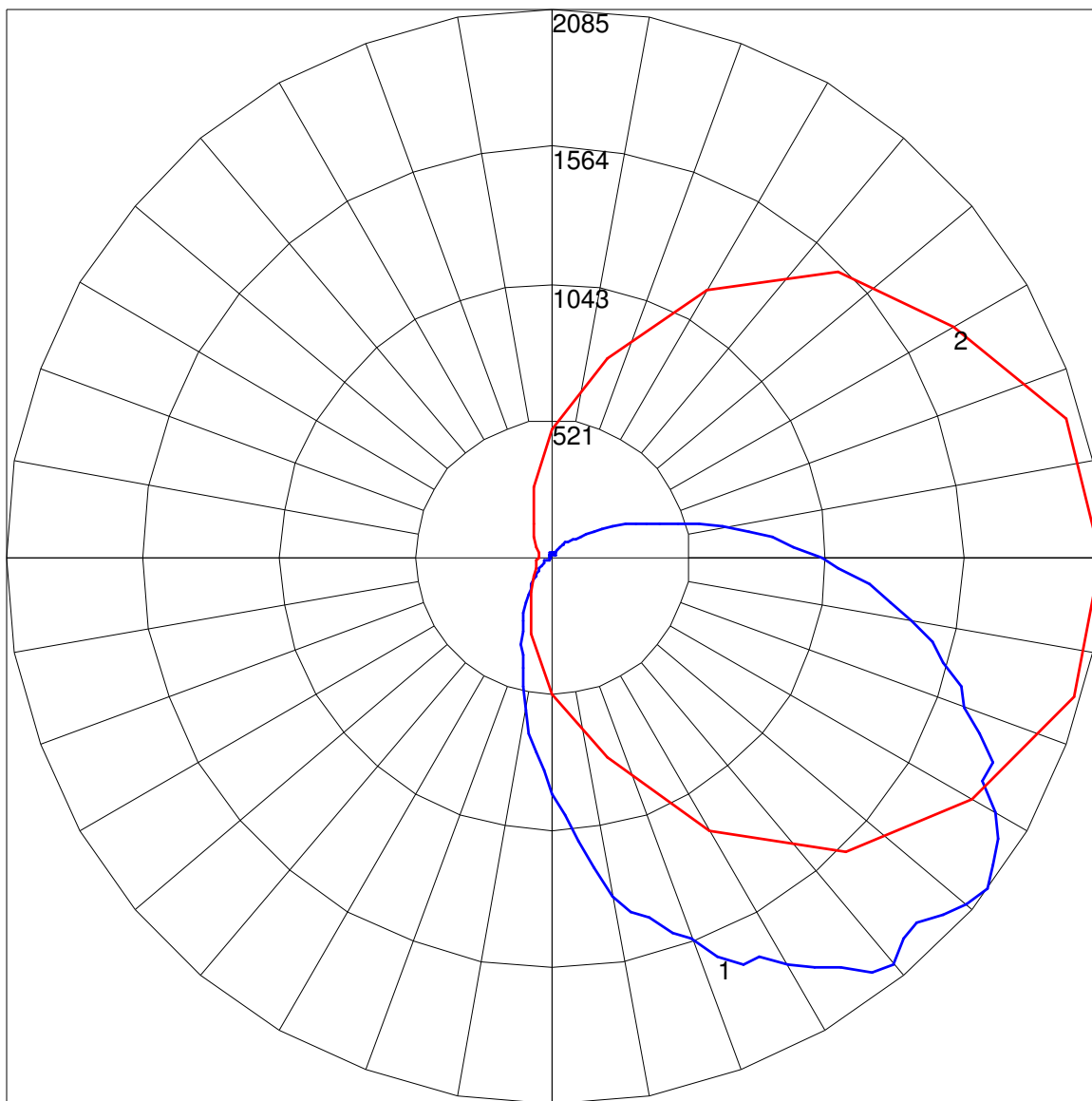
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WPAL-L49-850-BZ.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	72	72	72	72	70	70	70	70	65	65	65	60	60	60	56	56	56	54
1	64	60	56	53	61	57	54	51	53	51	48	49	47	45	46	44	42	40
2	57	51	45	41	54	49	44	40	45	41	38	42	38	36	39	36	34	32
3	51	44	38	33	49	42	36	32	39	34	30	36	32	29	33	30	27	25
4	46	38	32	27	44	37	31	26	34	29	25	31	27	24	29	26	23	21
5	42	34	27	23	40	32	27	22	30	25	21	28	24	20	26	22	19	18
6	39	30	24	20	37	29	23	19	27	22	18	25	21	17	23	20	17	15
7	36	27	21	17	34	26	21	17	24	19	16	23	18	15	21	17	15	13
8	33	24	19	15	32	24	18	15	22	17	14	21	16	13	19	16	13	12
9	31	22	17	13	30	22	16	13	20	16	12	19	15	12	18	14	11	10
10	29	20	15	12	28	20	15	12	19	14	11	18	14	11	16	13	10	9

POLAR GRAPH



Maximum Candela = 2085.411 Located At Horizontal Angle = 0, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)