

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-WG-6W-4D-4FT-S-835-ITL88850.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL88850.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]01/26/17

[ISSUEDATE]04/17/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-WG-6W-4D-4ft-S-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 15.9 WATTS

[ABSOLUTE]LUMENS]1071

[OTHER]see www.finelite.com for source file ITL88850. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	14.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	609	695	4211
55	627	610	3123
65	945	696	2072
75	1355	1062	1131
85	107	128	266

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>
0.0	1380.101	1380.101	1380.101	1380.101	1380.101	1380.101	1380.101	1380.101	1380.101	1380.101
0.5	1334.248	1343.664	1344.892	1348.167	1351.033	1354.308	1359.631	1364.953	1371.094	1376.826
1.0	1298.630	1305.180	1307.227	1312.959	1319.509	1327.288	1337.932	1348.986	1361.678	1373.550
1.5	1260.555	1263.830	1267.105	1275.703	1285.529	1298.220	1314.596	1332.610	1351.443	1369.866
2.0	1220.024	1220.843	1226.574	1238.038	1251.957	1268.743	1291.670	1315.415	1340.798	1366.181
2.5	1178.674	1177.446	1183.996	1198.735	1216.749	1246.226	1267.105	1297.811	1330.563	1362.497
3.0	1118.082	1132.411	1140.190	1158.613	1179.902	1207.742	1242.132	1279.797	1319.509	1357.584
3.5	1071.001	1084.511	1095.156	1116.854	1142.647	1183.587	1217.158	1261.374	1307.636	1353.080
4.0	1023.919	1036.202	1048.484	1073.048	1104.572	1142.647	1191.775	1242.951	1296.582	1349.396
4.5	974.382	986.664	1000.174	1029.242	1064.860	1117.673	1165.164	1223.709	1285.119	1343.664
5.0	924.434	936.716	951.864	984.207	1023.510	1084.511	1138.143	1203.648	1272.018	1337.932
5.5	875.306	887.178	904.373	938.763	982.570	1048.893	1110.304	1183.996	1259.327	1332.201
6.0	826.587	840.097	857.292	894.548	942.448	1014.094	1082.055	1163.526	1246.226	1326.060
6.5	778.686	794.653	812.258	849.923	901.508	978.476	1053.806	1142.237	1233.125	1319.509
7.0	736.108	750.438	769.680	808.573	861.386	942.448	1024.329	1121.767	1219.615	1313.368
7.5	708.269	711.135	729.558	768.861	822.493	907.239	995.261	1100.069	1205.695	1306.408
8.0	669.376	675.107	692.302	730.786	786.056	872.440	966.603	1078.780	1192.184	1299.448
8.5	634.167	639.898	658.322	695.577	750.438	838.869	937.535	1056.672	1177.855	1292.488
9.0	600.186	608.374	625.979	662.416	716.866	806.116	908.877	1034.564	1163.936	1284.710
9.5	569.072	579.716	596.502	632.529	685.342	774.183	880.219	1013.684	1150.016	1278.159
10.0	550.239	553.514	569.890	604.690	655.456	744.296	852.789	990.758	1134.868	1270.381
11.0	499.063	506.023	522.400	554.333	603.052	687.389	798.747	947.361	1105.800	1254.823
11.5	483.506	485.553	501.111	532.225	578.897	661.187	773.364	925.253	1090.243	1246.226
12.0	462.627	465.902	481.459	511.755	556.380	636.623	748.391	903.964	1075.504	1238.447
12.5	442.566	447.888	463.036	491.694	535.500	612.878	724.236	882.266	1059.947	1229.850
13.0	429.465	431.921	445.841	473.271	516.258	590.770	701.718	861.795	1045.208	1221.252
13.5	411.042	415.954	429.874	456.076	497.426	569.890	678.792	840.097	1030.470	1214.702
14.0	399.578	401.625	415.136	440.109	479.412	550.239	657.912	819.217	1014.503	1204.467
14.5	384.430	388.524	401.625	424.961	463.445	530.997	638.261	799.157	999.355	1199.144
15.0	374.605	375.833	388.115	411.042	447.888	512.983	618.200	778.686	983.798	1190.137
16.0	352.497	353.725	362.323	386.068	419.639	480.640	581.763	741.021	953.502	1171.714
17.0	332.436	334.074	341.443	363.141	394.256	451.163	548.192	704.994	923.206	1152.063
18.0	313.194	316.060	323.429	342.671	371.739	424.552	517.077	667.329	894.138	1133.640
19.0	295.180	298.456	305.415	324.248	351.269	400.397	488.010	635.395	865.480	1113.170
20.0	276.757	281.261	289.039	307.053	335.302	378.699	461.808	605.099	837.641	1092.699
22.5	237.454	239.911	248.099	267.750	294.361	332.027	404.082	536.729	769.270	1040.296
25.0	209.615	211.662	217.394	232.541	258.334	293.952	356.591	476.546	704.994	985.026
27.5	194.467	195.286	198.152	207.568	228.038	261.200	315.241	427.418	644.402	928.938
30.0	183.413	184.232	185.869	191.192	204.702	232.951	280.851	381.565	587.904	870.393
32.5	165.809	167.856	172.768	178.500	187.916	209.205	251.783	340.215	535.091	811.439
35.0	149.842	150.661	155.983	164.171	173.997	190.782	226.400	305.825	485.963	752.485
37.5	143.701	144.110	145.338	150.251	160.896	175.634	204.702	275.529	440.519	693.940
40.0	137.560	138.379	138.788	141.654	147.795	162.124	185.869	248.099	397.941	636.623
42.5	133.875	134.285	133.875	134.694	138.379	148.614	170.721	224.763	358.638	580.125
45.0	131.009	131.009	131.009	129.781	131.009	137.150	156.802	203.064	321.792	525.675
47.5	126.506	126.506	126.506	126.096	125.687	128.962	143.701	184.641	286.992	472.862
50.0	127.734	127.325	124.049	122.002	121.593	122.002	131.828	167.037	256.287	422.096
52.5	128.553	128.553	128.553	122.412	117.499	116.680	122.002	151.479	228.447	374.195
55.0	128.143	128.143	126.506	124.459	116.680	112.177	113.405	136.741	202.246	328.342
57.5	135.513	135.103	130.190	124.459	119.955	108.492	106.445	122.412	178.091	286.173
60.0	146.567	145.748	140.426	131.828	119.955	111.767	101.532	109.720	155.164	242.367
62.5	158.439	158.030	151.479	141.654	126.096	111.767	97.029	99.076	133.875	205.930
65.0	177.272	176.453	166.627	151.889	135.513	114.633	99.076	89.659	114.633	171.950
67.5	204.702	203.883	190.373	169.084	144.929	122.412	99.076	82.700	97.848	141.244

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CANDELA TABULATION - (Cont.)

70.0	236.226	234.588	218.622	192.829	160.486	129.781	101.942	77.787	81.062	114.224
72.5	254.240	252.193	238.683	213.709	178.910	139.607	106.036	77.787	67.961	90.069
75.0	223.535	224.353	219.031	208.796	185.460	149.432	110.130	77.377	56.907	67.961
77.5	155.164	157.621	159.258	162.124	158.439	143.291	112.586	76.968	49.128	48.719
80.0	53.223	57.317	66.323	83.518	98.666	102.351	98.666	74.921	45.444	32.752
82.5	15.148	15.557	15.967	17.604	27.430	42.578	59.773	61.820	42.169	19.651
85.0	14.739	14.739	15.148	15.148	14.739	14.329	16.786	30.705	33.981	11.463
87.5	14.329	14.329	14.739	14.739	14.329	13.510	12.692	11.463	14.739	8.188
90.0	13.920	13.920	14.329	13.920	13.510	12.692	11.873	10.645	9.007	4.913
92.5	13.101	13.101	13.510	13.510	13.101	12.282	11.054	9.416	7.369	3.275
95.0	12.692	12.692	13.101	13.101	12.282	11.463	10.235	8.188	5.732	1.638
97.5	11.873	12.282	12.282	12.282	11.463	10.645	9.007	6.960	4.503	0.819
100.0	11.463	11.463	11.873	11.463	11.054	9.826	8.188	6.141	2.866	0.409
102.5	10.645	10.645	11.054	10.645	9.826	9.007	7.369	4.913	2.047	0.409
105.0	9.826	9.826	10.235	9.826	9.007	7.779	6.141	3.275	1.228	0.409
107.5	9.007	9.007	9.416	9.007	8.188	6.960	4.913	2.456	1.228	0.409
110.0	8.188	8.188	8.188	7.779	6.960	5.732	3.275	1.638	0.819	0.000
112.5	6.960	6.960	6.960	6.550	5.732	4.094	2.047	1.228	0.409	0.000
115.0	6.141	5.732	6.141	5.322	4.503	2.866	1.638	1.228	0.409	0.000
117.5	4.913	4.503	4.503	4.094	3.275	1.638	1.228	0.819	0.409	0.000
120.0	3.275	3.275	3.275	2.866	1.638	1.638	1.228	0.819	0.409	0.000
122.5	2.047	2.047	1.638	1.228	1.228	1.228	0.819	0.819	0.409	0.000
125.0	0.409	0.409	0.409	0.819	0.819	0.819	0.819	0.409	0.000	0.000
127.5	0.000	0.000	0.409	0.819	0.819	0.819	0.819	0.409	0.000	0.000
130.0	0.000	0.000	0.409	0.409	0.819	0.819	0.409	0.409	0.000	0.000
132.5	0.000	0.000	0.000	0.409	0.409	0.409	0.409	0.409	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.409	0.409	0.409	0.409	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.409	0.409	0.409	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.409	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles				
	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1380.101	1380.101	1380.101	1380.101	1380.101
0.5	1380.101	1393.202	1404.256	1410.806	1413.263
1.0	1380.101	1405.893	1425.954	1436.599	1440.283
1.5	1379.282	1416.947	1443.968	1456.250	1458.297
2.0	1379.282	1427.592	1457.478	1468.532	1468.942
2.5	1378.463	1436.599	1467.304	1473.036	1470.579
3.0	1377.235	1443.968	1472.626	1470.579	1462.391

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CANDELA TABULATION - (Cont.)

3.5	1376.007	1450.109	1473.036	1460.344	1446.834
4.0	1374.779	1455.022	1468.123	1443.559	1423.907
4.5	1373.141	1457.478	1459.935	1420.632	1394.430
5.0	1370.685	1458.297	1447.243	1393.202	1360.450
5.5	1367.409	1457.478	1430.458	1360.450	1321.556
6.0	1364.544	1455.431	1410.397	1324.422	1279.797
6.5	1361.268	1450.518	1387.061	1286.347	1235.172
7.0	1357.993	1444.377	1361.268	1244.998	1188.500
7.5	1353.490	1436.599	1333.429	1213.064	1140.190
8.0	1349.805	1428.001	1303.542	1169.258	1090.652
8.5	1346.939	1417.357	1272.018	1123.814	1039.886
9.0	1341.617	1405.893	1238.857	1077.142	988.711
9.5	1337.932	1392.792	1205.285	1029.651	937.535
10.0	1333.019	1376.826	1170.077	982.160	884.313
11.0	1322.375	1343.664	1098.022	885.131	780.733
11.5	1316.234	1325.241	1060.766	837.231	754.941
12.0	1310.502	1305.180	1023.919	788.922	678.792
12.5	1304.361	1285.529	985.026	741.021	654.637
13.0	1298.220	1265.877	946.542	694.759	607.556
13.5	1292.079	1244.998	908.467	649.315	562.112
14.0	1284.300	1223.709	869.984	603.871	518.305
14.5	1277.341	1202.829	831.909	560.883	477.774
15.0	1270.381	1180.721	793.425	520.352	439.291
16.0	1255.233	1136.506	720.142	446.250	371.739
17.0	1238.857	1091.471	648.905	382.383	315.650
18.0	1221.662	1040.296	581.354	328.342	271.025
19.0	1204.057	994.033	517.077	284.126	235.407
20.0	1184.815	946.951	458.942	248.099	206.749
22.5	1134.868	829.862	340.624	177.272	135.513
25.0	1080.417	715.638	253.830	115.861	80.243
27.5	1023.101	610.421	198.970	66.323	34.799
30.0	963.328	509.299	142.063	27.839	18.423
32.5	901.917	415.954	95.391	18.014	14.329
35.0	839.688	341.443	53.223	14.329	12.282
37.5	776.230	279.623	25.383	12.692	10.645
40.0	713.182	229.266	18.014	11.054	6.550
42.5	647.677	187.916	14.739	5.322	1.228
45.0	586.676	148.204	12.692	2.047	1.228
47.5	526.903	108.901	11.054	1.638	0.819
50.0	468.768	75.740	7.779	1.638	0.409
52.5	416.773	45.034	3.275	1.228	0.409
55.0	364.370	24.564	2.866	1.228	0.409
57.5	314.832	16.376	2.456	0.819	0.000
60.0	268.569	13.101	2.047	0.819	0.000
62.5	226.400	10.645	2.047	0.819	0.000
65.0	187.507	7.369	1.638	0.819	0.000
67.5	152.708	4.094	1.638	0.409	0.000
70.0	121.593	3.685	1.228	0.409	0.000
72.5	93.754	2.866	1.228	0.409	0.000
75.0	69.599	2.456	0.819	0.409	0.000
77.5	48.719	2.047	0.819	0.409	0.000
80.0	30.296	1.638	0.409	0.409	0.000
82.5	15.967	1.228	0.409	0.000	0.000
85.0	8.188	0.819	0.409	0.000	0.000
87.5	3.275	0.409	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-4D-4FT-S-835-ITL88850.001.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	316.61	N.A.	29.60
0-30	509.93	N.A.	47.60
0-40	668.19	N.A.	62.40
0-60	888.28	N.A.	82.90
0-80	1044.66	N.A.	97.60
0-90	1060.14	N.A.	99.00
10-90	948.94	N.A.	88.60
20-40	351.58	N.A.	32.80
20-50	476.88	N.A.	44.50
40-70	302.01	N.A.	28.20
60-80	156.38	N.A.	14.60
70-80	74.46	N.A.	7.00
80-90	15.48	N.A.	1.40
90-110	8.77	N.A.	0.80
90-120	10.31	N.A.	1.00
90-130	10.65	N.A.	1.00
90-150	10.73	N.A.	1.00
90-180	10.73	N.A.	1.00
110-180	1.97	N.A.	0.20
0-180	1070.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.20
10-20	205.41
20-30	193.32
30-40	158.26
40-50	125.29
50-60	94.79
60-70	81.92
70-80	74.46
80-90	15.48
90-100	5.34
100-110	3.43
110-120	1.54
120-130	0.34
130-140	0.07
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

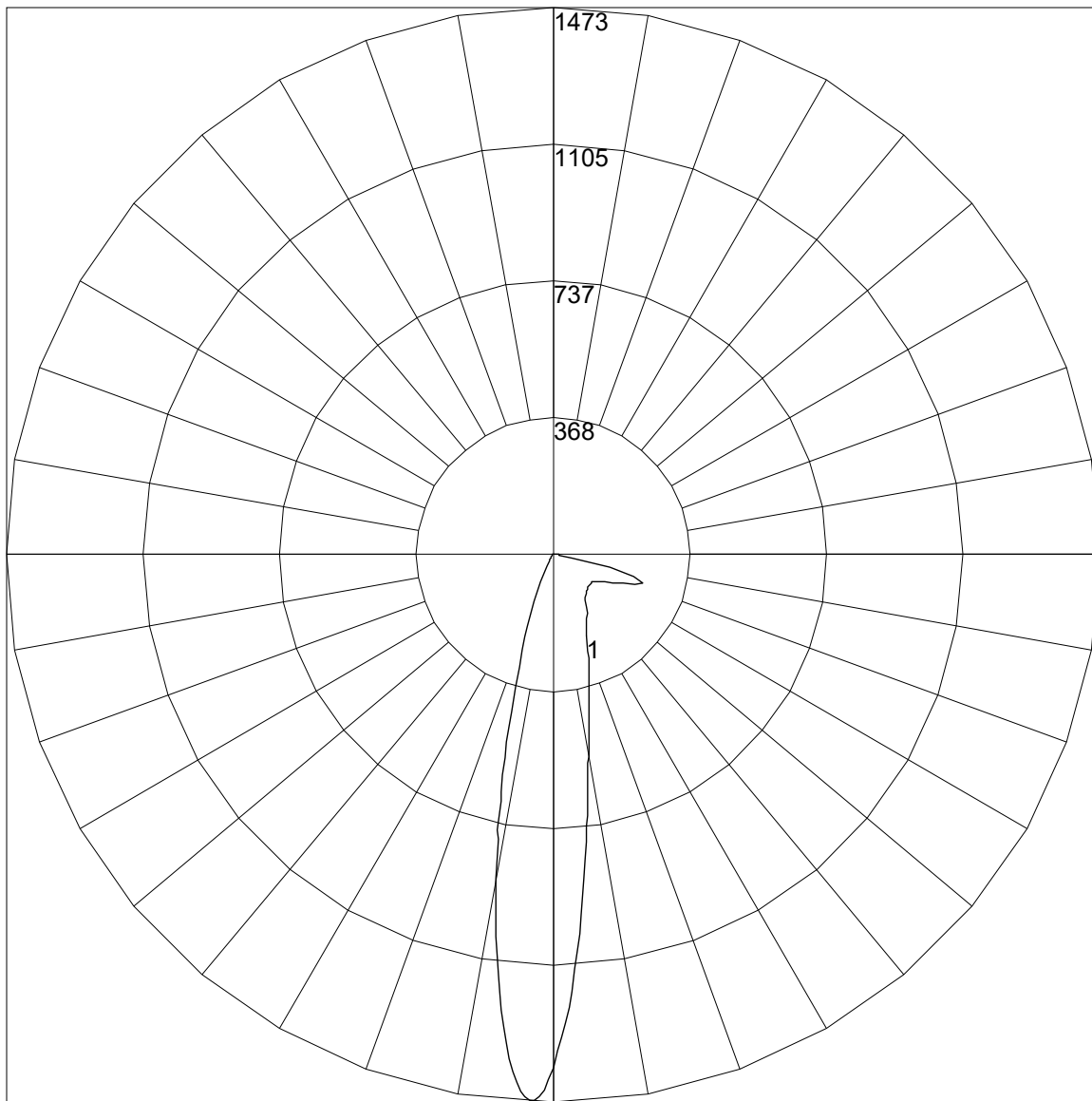
PHOTOMETRIC FILENAME : HP-WG-6W-4D-4FT-S-835-ITL88850.001.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	91	90	88	86
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	95	86	79	73	92	84	78	72	81	76	71	78	74	70	76	72	68	66
4	88	78	71	65	86	77	70	64	74	68	63	72	67	63	70	65	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	60	55	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	42	40
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

POLAR GRAPH



Maximum Candela = 1473.036 Located At Horizontal Angle = 135, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)