

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-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-KPL2008-3.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]08/06/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-H-H-835-ASY-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 WATTS

[OTHER]see www.finelite.com for source files ITL89599 and KPL2008-3. 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

[_ABSOLUTELUMENS]6256

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	55.8
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.18 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18067	18709	13597
55	15333	16990	12129
65	12660	14710	10722
75	10561	12502	8999
85	10539	12453	7484

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES

CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
2.5	1143.471	1141.605	1136.153	1139.326	1136.076	1129.403	1128.672	1130.788	1128.758	1111.517
5.0	1186.406	1182.665	1176.568	1175.184	1165.915	1154.125	1146.971	1141.115	1132.172	1105.825
7.5	1222.676	1219.340	1210.397	1206.897	1193.724	1174.539	1161.365	1148.518	1132.009	1097.200
10.0	1252.764	1250.407	1240.562	1232.436	1215.195	1190.714	1171.693	1152.259	1127.942	1084.602
12.5	1282.035	1278.131	1265.121	1254.630	1232.918	1201.858	1177.463	1151.606	1120.134	1068.660
15.0	1298.622	1294.477	1282.766	1270.572	1239.831	1208.608	1178.520	1146.971	1109.239	1049.794
17.5	1304.968	1300.333	1289.353	1276.591	1251.302	1211.291	1174.702	1137.211	1092.892	1026.293
20.0	1299.275	1295.130	1285.612	1273.986	1248.533	1208.118	1166.490	1123.229	1073.948	1003.687
22.5	1284.477	1280.409	1272.275	1261.466	1237.801	1197.060	1154.856	1103.709	1049.468	975.388
25.0	1258.783	1257.150	1251.379	1241.869	1220.156	1179.337	1136.885	1082.161	1023.859	945.059
27.5	1231.129	1224.869	1220.561	1214.059	1194.050	1157.376	1114.441	1055.977	993.935	910.500
30.0	1190.473	1185.760	1184.617	1179.741	1163.480	1126.153	1084.276	1024.917	958.723	875.863
32.5	1145.587	1142.662	1142.577	1140.625	1129.652	1094.603	1050.852	991.734	923.432	836.583
35.0	1091.594	1094.440	1093.382	1099.152	1088.825	1054.188	1012.062	955.791	884.884	798.532
37.5	1035.485	1036.216	1040.610	1048.900	1040.773	1011.658	969.050	912.856	842.843	758.763
40.0	974.983	976.935	982.138	994.176	991.252	966.281	925.462	871.228	800.562	720.300
42.5	907.327	912.289	921.885	937.337	935.058	914.645	876.431	825.688	756.896	675.903
45.0	841.467	845.208	859.027	873.825	879.440	863.335	847.401	776.571	709.000	633.295
47.5	779.013	779.091	793.081	812.274	821.784	809.910	774.456	727.454	663.546	589.544
50.0	708.106	708.674	726.319	747.463	758.926	754.781	719.569	674.115	615.728	545.388
52.5	642.565	645.738	663.865	682.653	702.655	698.105	664.192	623.046	568.975	502.781
55.0	579.302	582.716	599.218	624.352	642.892	640.854	611.910	571.899	522.378	458.221
57.5	514.896	521.973	536.445	562.707	581.736	579.948	554.744	520.589	474.645	416.748
60.0	457.490	462.529	476.760	499.934	521.242	523.272	501.964	468.548	430.653	377.391
62.5	399.912	407.968	423.335	443.422	464.076	466.106	448.702	418.700	384.545	329.953
65.0	352.428	355.274	369.093	387.640	405.441	413.497	399.266	369.093	339.332	298.481
67.5	305.099	305.916	321.282	335.024	352.505	361.208	348.361	322.830	298.186	260.952
70.0	261.029	262.818	273.876	288.675	305.177	311.033	302.012	278.838	256.231	222.209
72.5	217.605	218.826	229.557	239.799	256.231	261.924	251.674	235.654	219.720	187.284
75.0	180.036	182.151	190.037	200.768	210.855	215.404	209.634	194.835	178.325	153.409
77.5	143.603	147.343	152.305	162.228	170.276	173.286	168.978	157.834	145.314	123.275
80.0	112.543	114.736	118.889	125.717	130.678	132.708	129.216	122.707	113.601	93.607
82.5	84.081	85.224	88.474	92.456	97.013	98.148	96.033	92.052	88.148	67.960
85.0	60.502	59.670	61.980	70.744	71.039	71.941	70.145	67.649	55.992	42.966
87.5	36.317	37.942	37.507	39.404	41.022	40.975	39.116	35.220	31.293	20.266
90.0	27.996	27.996	26.440	23.330	20.219	15.553	10.887	6.999	3.111	0.000
92.5	60.681	61.459	60.681	57.569	52.123	49.011	46.678	42.788	37.342	18.671
95.0	121.362	122.918	121.362	117.472	113.582	109.692	104.247	94.911	78.574	45.900
97.5	184.377	185.932	183.599	183.599	183.599	181.265	171.151	151.702	119.806	74.684
100.0	238.834	242.724	247.391	259.061	267.618	263.728	245.057	210.827	160.260	104.247
102.5	306.516	315.074	330.633	354.750	367.975	357.084	322.853	267.618	197.602	133.031
105.0	399.093	415.431	447.327	476.889	482.335	457.440	400.649	319.742	232.610	162.594
107.5	542.238	560.909	594.361	614.588	609.921	564.021	475.334	365.641	265.284	192.934
110.0	725.059	734.394	755.399	763.957	738.284	658.932	537.570	405.317	296.403	223.275
112.5	905.545	910.991	921.883	909.435	851.088	735.172	585.804	441.103	326.743	253.615
115.0	1080.586	1079.031	1072.029	1029.241	936.664	792.741	625.480	473.000	357.862	285.511
117.5	1221.397	1209.728	1184.833	1118.706	998.123	832.417	655.820	502.562	388.980	318.186
120.0	1321.754	1305.417	1264.185	1177.053	1035.465	859.646	682.271	531.347	420.876	350.082
122.5	1386.325	1366.098	1312.419	1208.950	1058.026	879.873	705.610	560.131	452.773	381.978
125.0	1416.665	1394.882	1333.423	1222.175	1069.695	896.210	728.171	588.916	483.891	413.875
127.5	1422.889	1400.328	1334.979	1222.953	1075.141	910.213	751.509	617.700	515.010	444.993
130.0	1411.997	1389.437	1324.866	1217.507	1077.475	923.439	775.626	647.263	547.684	477.667
132.5	1391.770	1372.321	1310.863	1208.950	1079.808	937.442	798.965	677.603	580.358	510.342

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES

CANDELA TABULATION - (Cont.)

135.0	1369.210	1349.761	1292.969	1200.392	1082.920	952.223	822.304	706.388	613.032	543.794
137.5	1346.649	1327.978	1276.632	1193.391	1087.588	967.782	847.198	735.950	644.929	577.246
140.0	1322.532	1307.751	1262.629	1187.945	1092.256	983.341	871.315	765.513	676.825	609.921
142.5	1303.083	1290.636	1250.960	1184.833	1097.702	998.901	895.432	794.297	709.500	642.595
145.0	1286.746	1275.854	1240.068	1180.943	1103.925	1015.238	918.771	821.526	739.840	675.269
147.5	1271.965	1261.851	1230.733	1177.831	1110.149	1030.019	940.554	847.976	770.180	707.166
150.0	1255.627	1247.848	1221.397	1175.498	1116.373	1044.022	959.225	872.093	798.965	739.840
152.5	1242.402	1235.401	1213.618	1174.720	1121.040	1054.914	976.340	894.654	826.194	770.180
155.0	1231.511	1224.509	1205.838	1171.608	1123.374	1062.693	989.565	914.103	851.088	798.965
157.5	1220.619	1213.618	1197.280	1166.162	1121.040	1065.805	999.679	931.996	875.205	826.194
160.0	1205.838	1198.836	1183.277	1156.049	1115.595	1065.805	1006.680	945.999	895.432	851.088
162.5	1186.389	1180.165	1166.162	1141.267	1104.703	1061.915	1010.570	958.447	914.103	873.649
165.0	1161.494	1155.271	1142.045	1121.040	1090.700	1054.136	1011.348	967.004	929.662	893.876
167.5	1131.932	1126.486	1115.595	1097.702	1072.807	1043.244	1009.014	972.450	941.332	910.991
170.0	1097.702	1093.034	1084.476	1070.473	1052.580	1030.019	1002.790	974.784	950.667	924.216
172.5	1062.693	1059.582	1053.358	1044.022	1030.019	1012.904	994.233	974.006	955.335	935.108
175.0	1025.351	1023.017	1018.350	1012.904	1004.346	994.233	982.563	969.338	956.891	944.443
177.5	987.231	986.453	984.897	981.786	978.674	974.006	967.782	961.559	955.335	949.111
180.0	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667

Vert. Angles

Horizontal Angles

	100	110	120	130	140	150	160	170	180
0.0	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
2.5	1111.191	1098.258	1083.708	1073.218	1068.334	1064.111	1056.467	1056.140	1059.391
5.0	1098.017	1079.073	1057.851	1042.725	1035.649	1028.004	1017.109	1018.649	1016.293
7.5	1080.776	1055.736	1029.140	1011.580	1002.629	993.119	980.598	982.954	980.839
10.0	1060.612	1029.793	1001.657	981.329	970.349	958.964	949.290	948.885	949.453
12.5	1037.352	1001.820	971.811	950.837	938.799	926.769	914.645	915.135	916.597
15.0	1013.283	974.657	943.356	920.260	907.739	894.402	872.931	882.854	883.585
17.5	984.906	944.165	913.183	888.624	874.805	862.689	853.497	852.113	853.824
20.0	955.060	913.509	881.392	858.459	844.469	833.006	825.525	823.736	823.736
22.5	921.721	880.576	849.516	827.718	814.303	805.687	796.658	796.899	796.091
25.0	888.383	849.267	814.957	794.947	783.726	775.031	767.955	767.550	768.764
27.5	853.902	815.688	781.859	765.109	754.859	746.243	739.415	740.954	741.118
30.0	817.150	779.666	748.599	732.906	724.771	715.338	710.548	700.625	713.472
32.5	780.148	743.886	713.876	701.683	692.491	685.577	682.086	682.980	685.336
35.0	743.396	705.260	678.913	669.075	661.594	655.738	654.432	654.518	655.085
37.5	702.328	668.422	647.036	635.729	629.143	625.487	623.294	624.671	626.141
40.0	663.134	631.258	610.362	602.959	596.535	593.689	593.852	594.101	596.862
42.5	622.315	594.101	575.562	569.706	565.312	563.601	564.581	564.091	565.312
45.0	583.362	556.610	540.427	535.061	533.926	531.080	533.109	535.792	511.972
47.5	542.216	518.310	504.079	500.992	498.954	498.223	501.155	504.243	506.436
50.0	501.070	479.847	468.875	466.837	465.779	466.028	468.711	472.125	473.261
52.5	461.308	442.605	432.768	431.220	431.057	431.461	435.855	440.249	441.548
55.0	421.951	405.526	397.960	395.440	396.093	398.450	404.632	405.767	407.074
57.5	382.998	368.525	362.996	359.746	362.343	364.295	370.641	372.919	374.054
60.0	338.484	323.017	320.831	322.612	321.656	324.105	332.372	322.822	340.716
62.5	306.764	296.428	292.812	292.766	294.235	299.026	303.404	305.768	306.040
65.0	269.451	261.737	258.797	259.070	262.764	266.924	269.436	272.578	271.761
67.5	235.297	227.053	223.297	224.059	229.635	231.704	235.763	237.256	235.203
70.0	200.030	194.384	191.802	192.704	195.263	198.677	201.056	202.176	205.209
72.5	168.581	163.837	159.506	161.380	163.659	166.178	167.135	168.527	169.157
75.0	135.919	131.782	128.796	130.320	132.078	132.739	120.903	133.649	136.090
77.5	106.773	103.056	101.345	100.800	101.376	102.604	102.581	102.223	102.153
80.0	78.248	75.830	74.826	74.173	73.341	71.475	71.926	71.405	71.848

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES****CANDELA TABULATION - (Cont.)**

82.5	53.744	50.587	48.332	46.978	46.862	45.851	45.571	44.770	43.378
85.0	31.767	28.649	26.246	23.571	22.296	20.585	19.014	17.816	15.841
87.5	10.444	8.072	6.361	4.829	3.437	2.294	1.478	1.097	0.995
90.0	3.111	6.999	10.110	13.998	16.331	18.664	20.219	20.997	20.997
92.5	24.117	25.673	28.785	31.118	33.452	34.230	35.008	35.786	35.786
95.0	50.567	52.901	56.791	61.459	63.793	64.571	64.571	63.015	61.459
97.5	76.240	79.352	85.576	92.577	97.245	99.579	101.135	99.579	98.801
100.0	102.691	106.581	113.582	122.140	128.363	133.809	137.699	136.921	136.921
102.5	129.919	136.143	144.701	154.036	161.816	167.261	171.151	171.929	171.929
105.0	156.370	164.928	177.375	190.600	198.380	202.270	204.603	203.826	203.826
107.5	184.377	192.156	204.603	219.385	229.498	234.944	238.834	237.278	235.722
110.0	211.605	216.273	231.054	248.947	260.617	266.062	270.730	270.730	270.730
112.5	238.834	240.390	256.727	277.732	291.735	299.515	304.960	304.960	304.960
115.0	266.062	264.506	280.844	304.182	321.297	332.189	339.969	340.746	341.524
117.5	293.291	286.289	303.404	329.077	348.526	362.529	372.643	374.199	375.755
120.0	321.297	309.628	325.965	351.638	372.643	389.758	403.761	405.317	407.651
122.5	348.526	332.189	346.970	372.643	395.204	415.431	431.768	434.102	437.214
125.0	377.311	356.306	368.753	392.092	415.431	439.547	458.218	461.330	464.442
127.5	405.317	378.867	388.202	409.207	433.324	459.774	480.779	485.447	490.115
130.0	433.324	401.427	406.873	424.766	448.105	475.334	497.894	505.674	512.676
132.5	462.886	423.988	425.544	440.325	460.552	487.003	508.786	518.899	528.235
135.0	491.671	446.549	443.437	454.329	472.222	496.338	516.565	526.679	536.014
137.5	521.233	469.888	462.108	467.554	481.557	503.340	522.011	530.569	539.126
140.0	551.574	495.561	481.557	482.335	491.671	509.564	525.123	532.903	540.682
142.5	582.692	524.345	504.118	497.116	501.006	515.010	526.679	532.903	539.126
145.0	615.366	554.685	528.235	513.454	510.342	520.455	528.235	532.903	537.570
147.5	647.263	585.804	552.352	529.013	520.455	525.901	531.347	534.458	537.570
150.0	678.381	614.588	576.468	546.128	532.125	534.458	536.014	537.570	538.348
152.5	709.500	646.485	602.919	566.355	546.128	543.794	541.460	541.460	541.460
155.0	739.840	678.381	632.482	592.028	567.133	557.797	550.018	548.462	546.128
157.5	769.402	708.722	664.378	624.702	595.917	578.024	564.021	560.131	557.019
160.0	798.965	743.730	700.942	662.822	630.926	606.031	585.804	579.580	573.357
162.5	826.971	777.960	737.506	700.164	669.046	644.151	623.146	613.032	603.697
165.0	854.200	812.968	774.848	738.284	708.722	687.717	669.824	659.710	650.375
167.5	877.539	843.309	809.856	777.182	750.731	730.504	714.167	706.388	699.386
170.0	897.766	870.537	844.865	819.192	797.409	777.960	762.401	754.621	747.620
172.5	915.659	896.210	877.539	859.646	843.309	829.305	817.636	812.190	805.967
175.0	931.218	917.993	906.323	894.654	884.541	875.983	868.981	865.091	861.980
177.5	942.888	935.886	930.440	924.994	921.105	917.215	913.325	911.769	909.435
180.0	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	407.22	N.A.	6.50
0-30	862.15	N.A.	13.80
0-40	1395.62	N.A.	22.30
0-60	2367.88	N.A.	37.80
0-80	2860.25	N.A.	45.70
0-90	2912.39	N.A.	46.50
10-90	2807.42	N.A.	44.90
20-40	988.40	N.A.	15.80
20-50	1515.39	N.A.	24.20
40-70	1289.81	N.A.	20.60
60-80	492.37	N.A.	7.90
70-80	174.81	N.A.	2.80
80-90	52.15	N.A.	0.80
90-110	402.79	N.A.	6.40
90-120	935.34	N.A.	14.90
90-130	1546.16	N.A.	24.70
90-150	2615.09	N.A.	41.80
90-180	3345.87	N.A.	53.50
110-180	2943.08	N.A.	47.00
0-180	6258.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.97
10-20	302.25
20-30	454.93
30-40	533.47
40-50	526.99
50-60	445.26
60-70	317.56
70-80	174.81
80-90	52.15
90-100	94.17
100-110	308.62
110-120	532.55
120-130	610.82
130-140	574.30
140-150	494.63
150-160	387.72
160-170	253.57
170-180	89.48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

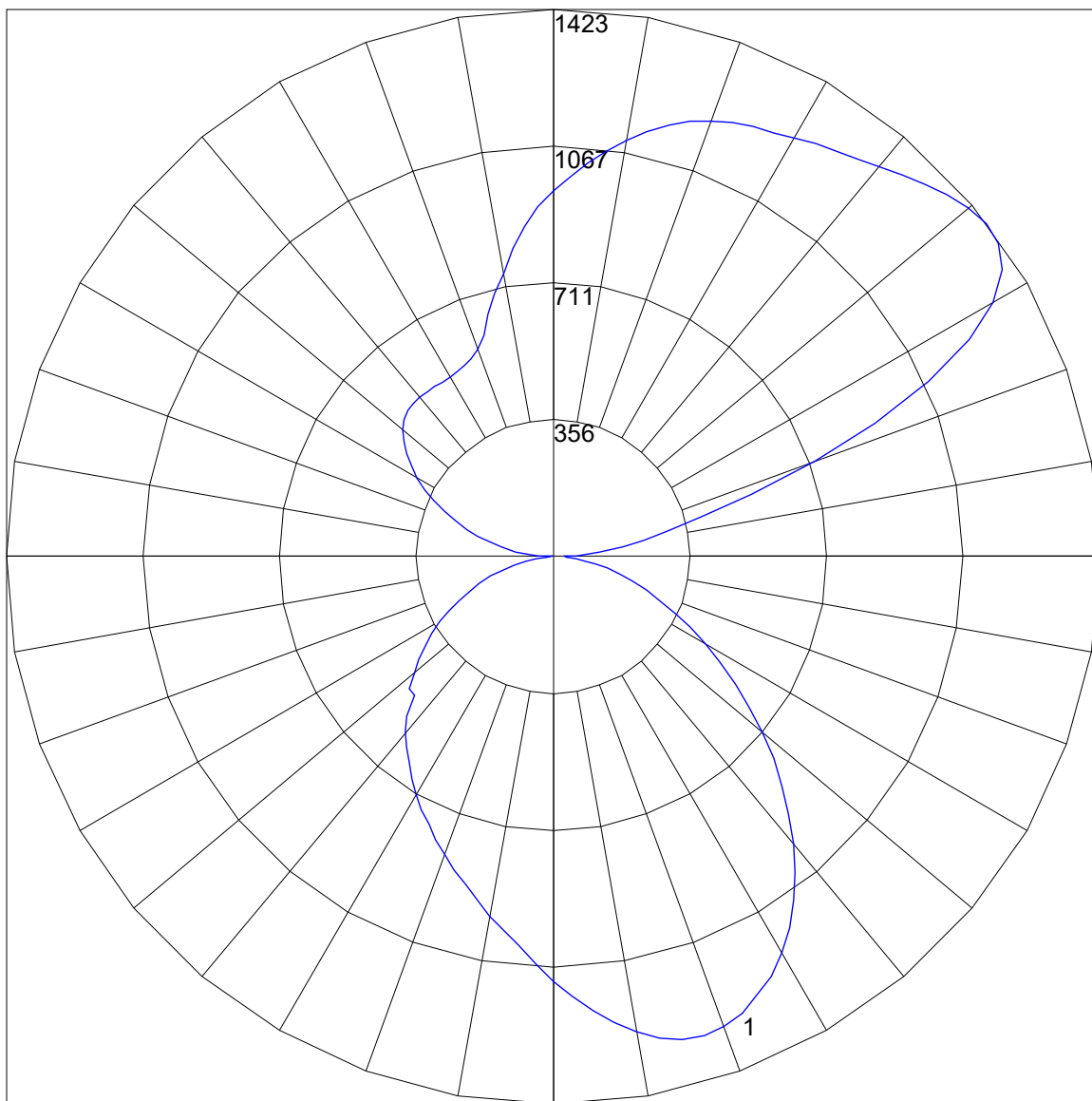
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	56	47	46	45	39
2	88	81	75	70	81	75	69	65	63	59	56	52	49	46	41	39	38	33
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	34	32	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	32	29	30	27	24	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	28	49	38	31	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DAO-ITL89599-KPL2008-3.001.IES

POLAR GRAPH



Maximum Candela = 1422.889 Located At Horizontal Angle = 0, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)