

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-V-835-ASY-DAO-ITL89599-KPL2008-3.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-KPL2008-3.007 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 64.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.0 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

[_ABSOLUTE LUMENS]7088

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	64.2
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	23232	24058	17485
55	19717	21847	15596
65	16280	18915	13788
75	13580	16076	11572
85	13552	16014	9624

IES INDOOR REPORT

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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	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990
2.5	1470.400	1468.000	1460.990	1465.070	1460.890	1452.310	1451.370	1454.090	1451.480	1429.310
5.0	1525.610	1520.800	1512.960	1511.180	1499.260	1484.100	1474.900	1467.370	1455.870	1421.990
7.5	1572.250	1567.960	1556.460	1551.960	1535.020	1510.350	1493.410	1476.890	1455.660	1410.900
10.0	1610.940	1607.910	1595.250	1584.800	1562.630	1531.150	1506.690	1481.700	1450.430	1394.700
12.5	1648.580	1643.560	1626.830	1613.340	1585.420	1545.480	1514.110	1480.860	1440.390	1374.200
15.0	1669.910	1664.580	1649.520	1633.840	1594.310	1554.160	1515.470	1474.900	1426.380	1349.940
17.5	1678.070	1672.110	1657.990	1641.580	1609.060	1557.610	1510.560	1462.350	1405.360	1319.720
20.0	1670.750	1665.420	1653.180	1638.230	1605.500	1553.530	1500.000	1444.370	1381.000	1290.650
22.5	1651.720	1646.490	1636.030	1622.130	1591.700	1539.310	1485.040	1419.270	1349.520	1254.260
25.0	1618.680	1616.580	1609.160	1596.930	1569.010	1516.520	1461.930	1391.560	1316.590	1215.260
27.5	1583.120	1575.070	1569.530	1561.170	1535.440	1488.280	1433.070	1357.890	1278.110	1170.820
30.0	1530.840	1524.780	1523.310	1517.040	1496.130	1448.130	1394.280	1317.950	1232.830	1126.280
32.5	1473.120	1469.360	1469.250	1466.740	1452.630	1407.560	1351.300	1275.280	1187.450	1075.770
35.0	1403.690	1407.350	1405.990	1413.410	1400.130	1355.590	1301.420	1229.060	1137.880	1026.840
37.5	1331.540	1332.480	1338.130	1348.790	1338.340	1300.900	1246.110	1173.850	1083.820	975.700
40.0	1253.740	1256.250	1262.940	1278.420	1274.660	1242.550	1190.060	1120.320	1029.450	926.240
42.5	1166.740	1173.120	1185.460	1205.330	1202.400	1176.150	1127.010	1061.760	973.300	869.150
45.0	1082.050	1086.860	1104.630	1123.660	1130.880	1110.170	1089.680	998.600	911.710	814.360
47.5	1001.740	1001.840	1019.830	1044.510	1056.740	1041.470	995.880	935.440	853.260	758.100
50.0	910.560	911.290	933.980	961.170	975.910	970.580	925.300	866.850	791.770	701.320
52.5	826.280	830.360	853.670	877.830	903.550	897.700	854.090	801.180	731.650	646.530
55.0	744.930	749.320	770.540	802.860	826.700	824.080	786.860	735.410	671.730	589.230
57.5	662.110	671.210	689.820	723.590	748.060	745.760	713.350	669.430	610.350	535.900
60.0	588.290	594.770	613.070	642.870	670.270	672.880	645.480	602.510	553.780	485.290
62.5	514.250	524.610	544.370	570.200	596.760	599.370	576.990	538.410	494.490	424.290
65.0	453.190	456.850	474.620	498.470	521.360	531.720	513.420	474.620	436.350	383.820
67.5	392.330	393.380	413.140	430.810	453.290	464.480	447.960	415.130	383.440	335.560
70.0	335.660	337.960	352.180	371.210	392.430	399.960	388.360	358.560	329.490	285.740
72.5	279.820	281.390	295.190	308.360	329.490	336.810	323.630	303.030	282.540	240.830
75.0	231.510	234.230	244.370	258.170	271.140	276.990	269.570	250.540	229.310	197.270
77.5	184.660	189.470	195.850	208.610	218.960	222.830	217.290	202.960	186.860	158.520
80.0	144.720	147.540	152.880	161.660	168.040	170.650	166.160	157.790	146.080	120.370
82.5	108.120	109.590	113.770	118.890	124.750	126.210	123.490	118.370	113.350	87.390
85.0	77.800	76.730	79.700	90.970	91.350	92.510	90.200	86.990	72.000	55.250
87.5	46.700	48.790	48.230	50.670	52.750	52.690	50.300	45.290	40.240	26.060
90.0	36.000	36.000	34.000	30.000	26.000	20.000	14.000	9.000	4.000	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

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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	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990
2.5	1428.890	1412.260	1393.550	1380.060	1373.780	1368.350	1358.520	1358.100	1362.280
5.0	1411.950	1387.590	1360.300	1340.850	1331.750	1321.920	1307.910	1309.890	1306.860
7.5	1389.780	1357.580	1323.380	1300.800	1289.290	1277.060	1260.960	1263.990	1261.270
10.0	1363.850	1324.220	1288.040	1261.900	1247.780	1233.140	1220.700	1220.180	1220.910
12.5	1333.940	1288.250	1249.660	1222.690	1207.210	1191.740	1176.150	1176.780	1178.660
15.0	1302.990	1253.320	1213.070	1183.370	1167.270	1150.120	1122.510	1135.270	1136.210
17.5	1266.500	1214.110	1174.270	1142.690	1124.920	1109.340	1097.520	1095.740	1097.940
20.0	1228.120	1174.690	1133.390	1103.900	1085.910	1071.170	1061.550	1059.250	1059.250
22.5	1185.250	1132.340	1092.400	1064.370	1047.120	1036.040	1024.430	1024.740	1023.700
25.0	1142.380	1092.080	1047.960	1022.230	1007.800	996.620	987.520	987.000	988.560
27.5	1098.040	1048.900	1005.400	983.860	970.680	959.600	950.820	952.800	953.010
30.0	1050.780	1002.580	962.630	942.450	931.990	919.860	913.700	900.940	917.460
32.5	1003.200	956.570	917.980	902.300	890.480	881.590	877.100	878.250	881.280
35.0	955.940	906.900	873.020	860.370	850.750	843.220	841.540	841.650	842.380
37.5	903.130	859.530	832.030	817.490	809.020	804.320	801.500	803.270	805.160
40.0	852.730	811.740	784.870	775.350	767.090	763.430	763.640	763.960	767.510
42.5	800.240	763.960	740.120	732.590	726.940	724.740	726.000	725.370	726.940
45.0	750.150	715.750	694.940	688.040	686.580	682.920	685.530	688.980	658.350
47.5	697.240	666.500	648.200	644.230	641.610	640.670	644.440	648.410	651.230
50.0	644.330	617.040	602.930	600.310	598.950	599.270	602.720	607.110	608.570
52.5	593.200	569.150	556.500	554.510	554.300	554.820	560.470	566.120	567.790
55.0	542.590	521.470	511.740	508.500	509.340	512.370	520.320	521.780	523.460
57.5	492.500	473.890	466.780	462.600	465.940	468.450	476.610	479.540	481.000
60.0	435.260	415.370	412.560	414.850	413.620	416.770	427.400	415.120	438.130
62.5	394.470	381.180	376.530	376.470	378.360	384.520	390.150	393.190	393.540
65.0	346.490	336.570	332.790	333.140	337.890	343.240	346.470	350.510	349.460
67.5	302.570	291.970	287.140	288.120	295.290	297.950	303.170	305.090	302.450
70.0	257.220	249.960	246.640	247.800	251.090	255.480	258.540	259.980	263.880
72.5	216.780	210.680	205.110	207.520	210.450	213.690	214.920	216.710	217.520
75.0	174.780	169.460	165.620	167.580	169.840	170.690	155.470	171.860	175.000
77.5	137.300	132.520	130.320	129.620	130.360	131.940	131.910	131.450	131.360
80.0	100.620	97.510	96.220	95.380	94.310	91.910	92.490	91.820	92.390

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-ASY-DAO-ITL89599-KPL2008-3.007.IES****CANDELA TABULATION - (Cont.)**

82.5	69.110	65.050	62.150	60.410	60.260	58.960	58.600	57.570	55.780
85.0	40.850	36.840	33.750	30.310	28.670	26.470	24.450	22.910	20.370
87.5	13.430	10.380	8.180	6.210	4.420	2.950	1.900	1.410	1.280
90.0	4.000	9.000	13.000	18.000	21.000	24.000	26.000	27.000	27.000
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-V-835-ASY-DAO-ITL89599-KPL2008-3.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.65	N.A.	7.40
0-30	1108.65	N.A.	15.60
0-40	1794.64	N.A.	25.30
0-60	3044.88	N.A.	42.90
0-80	3678.02	N.A.	51.90
0-90	3745.07	N.A.	52.80
10-90	3610.09	N.A.	50.90
20-40	1270.99	N.A.	17.90
20-50	1948.65	N.A.	27.50
40-70	1658.58	N.A.	23.40
60-80	633.14	N.A.	8.90
70-80	224.79	N.A.	3.20
80-90	67.05	N.A.	0.90
90-110	403.38	N.A.	5.70
90-120	935.93	N.A.	13.20
90-130	1546.75	N.A.	21.80
90-150	2615.68	N.A.	36.90
90-180	3346.45	N.A.	47.20
110-180	2943.08	N.A.	41.50
0-180	7091.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.98
10-20	388.67
20-30	584.99
30-40	686.00
40-50	677.66
50-60	572.57
60-70	408.35
70-80	224.79
80-90	67.05
90-100	94.75
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-V-835-ASY-DAO-ITL89599-KPL2008-3.007.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

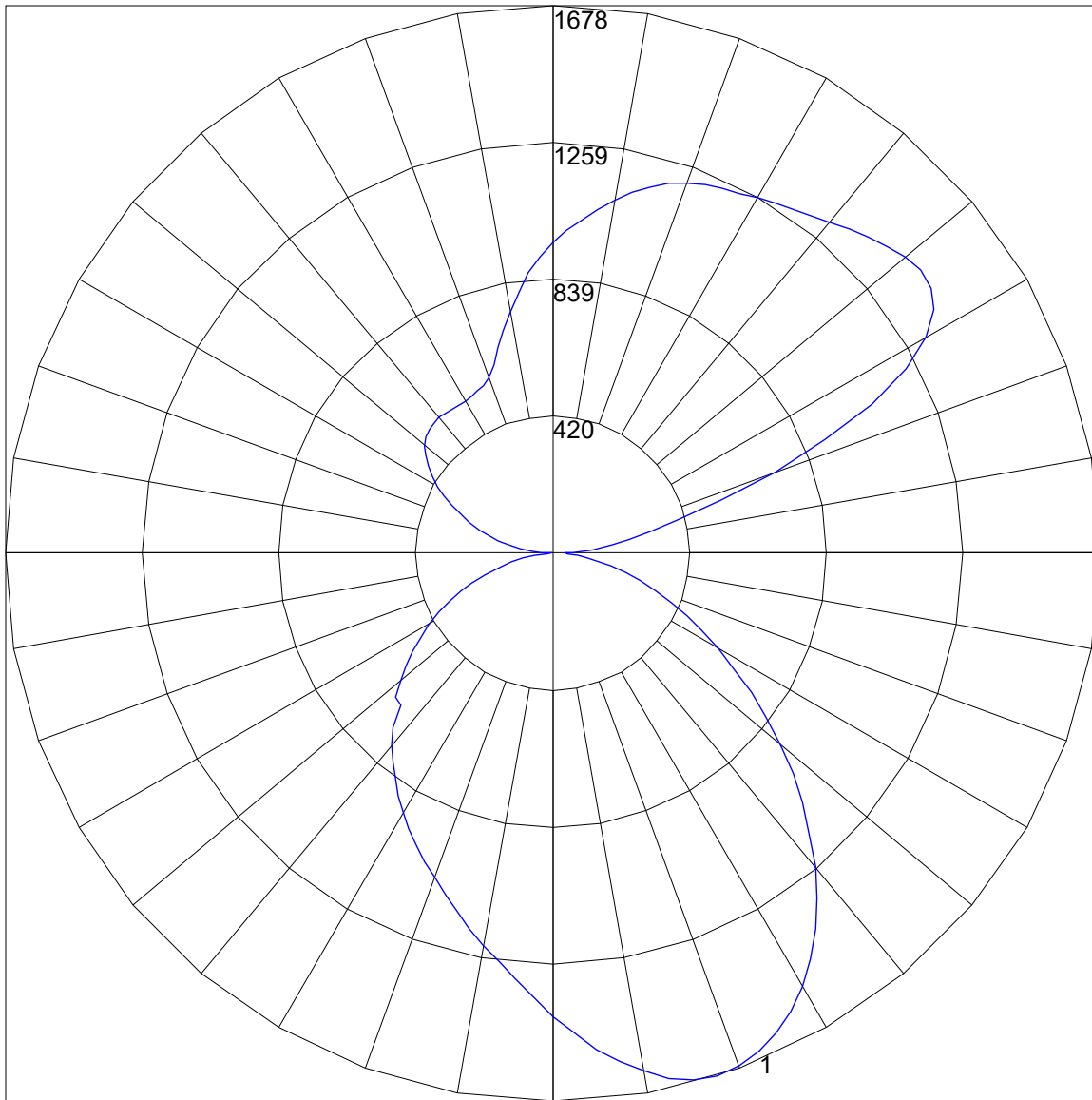
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	87	91	87	84	81	75	72	70	63	61	59	52	51	50	45
2	90	82	76	71	83	76	71	67	65	61	58	55	52	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	36	33	31	27
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	54	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 1678.07 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)