

# 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-F-DAO-ITL85132-KPL2008-3.001.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL85132-KPL2008-3.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 56.7 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL85132 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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[ABSOLUTE LUMENS]5875

[CONVERT] Photometric web converted from original test data

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5875
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	55.7
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)	4.00 ft
Luminous Width (90-270)	0.18 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	18795	13597
55	15333	17064	12129
65	12660	14863	10722
75	10561	12555	8999
85	10539	12509	7484

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-DAO-ITL85132-KPL2008-3.001.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
<b>2.5</b>	1143.471	1137.413	1131.845	1130.259	1111.517	1094.315	1070.208	1058.419	1059.391	1058.419
<b>5.0</b>	1186.406	1176.491	1159.576	1142.421	1105.825	1073.466	1037.927	1020.041	1016.293	1020.041
<b>7.5</b>	1222.676	1209.751	1183.809	1151.606	1097.201	1047.850	1005.965	976.492	980.839	976.492
<b>10.0</b>	1252.764	1239.061	1201.944	1157.018	1084.602	1021.783	974.906	951.280	949.453	951.280
<b>12.5</b>	1282.035	1263.581	1216.167	1157.951	1068.660	993.204	944.569	917.701	916.597	917.701
<b>15.0</b>	1298.622	1280.697	1226.743	1154.654	1049.794	966.165	913.105	880.093	883.585	880.093
<b>17.5</b>	1304.968	1286.996	1231.705	1146.318	1026.293	935.058	882.450	855.084	853.824	855.084
<b>20.0</b>	1299.275	1283.582	1228.773	1133.883	1003.687	904.691	851.794	826.870	823.736	826.870
<b>22.5</b>	1284.477	1270.572	1222.272	1116.074	975.388	871.959	821.543	798.042	796.091	798.042
<b>25.0</b>	1258.783	1249.513	1201.127	1096.112	945.059	839.468	789.255	769.098	768.764	769.098
<b>27.5</b>	1231.129	1219.627	1179.088	1070.900	910.500	806.052	759.090	740.597	741.118	740.597
<b>30.0</b>	1190.473	1183.645	1147.539	1040.937	875.863	771.003	728.675	710.999	713.472	710.999
<b>32.5</b>	1145.586	1142.826	1114.278	1007.840	836.583	735.837	697.856	682.327	685.336	682.327
<b>35.0</b>	1091.593	1095.217	1074.353	971.328	798.532	699.039	665.413	653.382	655.085	653.382
<b>37.5</b>	1035.486	1041.745	1029.956	928.231	758.763	661.758	632.479	623.458	626.141	623.458
<b>40.0</b>	974.984	985.723	983.032	885.537	720.300	625.285	600.035	593.284	596.862	593.284
<b>42.5</b>	907.327	925.307	929.288	838.823	675.903	588.696	567.342	563.936	565.312	563.936
<b>45.0</b>	841.467	863.133	875.373	790.437	633.295	550.716	533.195	531.772	511.972	531.772
<b>47.5</b>	779.013	797.553	823.083	740.472	589.544	513.963	498.713	500.098	506.435	500.098
<b>50.0</b>	708.106	732.097	761.695	686.067	545.389	475.827	465.779	468.019	473.261	468.019
<b>52.5</b>	642.565	668.057	703.386	633.824	502.781	439.596	430.653	434.556	441.548	434.556
<b>55.0</b>	579.302	604.506	644.680	581.659	458.221	402.602	395.689	402.680	407.074	402.680
<b>57.5</b>	514.896	541.772	582.312	529.618	416.748	365.803	360.476	368.245	374.055	368.245
<b>60.0</b>	457.490	483.596	524.734	476.682	377.391	321.998	320.373	332.465	340.716	332.465
<b>62.5</b>	399.912	427.114	466.837	426.508	329.953	295.223	293.909	303.132	306.040	303.132
<b>65.0</b>	352.428	373.526	413.738	377.188	298.481	260.291	260.306	269.335	271.761	269.335
<b>67.5</b>	305.099	324.743	360.718	329.821	260.952	226.750	226.221	234.511	235.203	234.511
<b>70.0</b>	261.029	277.578	310.302	285.020	222.209	193.575	193.824	200.496	205.209	200.496
<b>72.5</b>	217.605	232.606	259.077	240.048	187.284	162.142	162.352	166.715	169.157	166.715
<b>75.0</b>	180.036	191.950	214.028	199.470	153.409	131.510	131.176	127.287	136.090	127.287
<b>77.5</b>	143.603	154.459	171.334	161.209	123.275	102.527	101.018	102.573	102.153	102.573
<b>80.0</b>	112.543	120.553	132.630	124.744	93.607	75.309	72.385	71.599	71.848	71.599
<b>82.5</b>	84.081	89.166	98.071	92.705	67.960	49.918	47.383	40.493	43.378	40.493
<b>85.0</b>	60.502	62.539	71.809	68.356	42.966	27.957	23.252	18.991	15.841	18.991
<b>87.5</b>	36.317	38.168	40.322	35.640	20.266	7.629	4.083	1.462	0.995	1.462
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	23.334	23.334	23.334	25.668	25.668	25.668	23.334	23.334	23.334	23.334
<b>95.0</b>	55.224	52.891	52.891	53.669	54.447	53.669	52.891	52.891	55.224	52.891
<b>97.5</b>	87.115	84.781	83.226	84.004	84.004	84.004	83.226	84.781	87.115	84.781
<b>100.0</b>	119.783	115.894	115.894	115.894	115.116	115.894	115.894	115.894	119.783	115.894
<b>102.5</b>	154.006	150.895	149.339	148.562	148.562	148.562	149.339	150.895	154.006	150.895
<b>105.0</b>	189.786	187.452	183.563	182.785	182.007	182.785	183.563	187.452	189.786	187.452
<b>107.5</b>	226.343	224.009	219.342	218.565	217.787	218.565	219.342	224.009	226.343	224.009
<b>110.0</b>	264.455	262.122	258.233	256.677	254.344	256.677	258.233	262.122	264.455	262.122
<b>112.5</b>	304.124	300.235	297.901	294.012	291.679	294.012	297.901	300.235	304.124	300.235
<b>115.0</b>	343.792	341.459	339.903	332.125	330.569	332.125	339.903	341.459	343.792	341.459
<b>117.5</b>	385.794	381.905	381.905	372.571	371.015	372.571	381.905	381.905	385.794	381.905
<b>120.0</b>	428.573	422.351	423.906	414.573	411.462	414.573	423.906	422.351	428.573	422.351
<b>122.5</b>	469.019	462.797	465.908	458.130	452.685	458.130	465.908	462.797	469.019	462.797
<b>125.0</b>	514.132	504.799	507.910	500.132	496.243	500.132	507.910	504.799	514.132	504.799
<b>127.5</b>	558.468	548.356	549.912	543.689	542.134	543.689	549.912	548.356	558.468	548.356
<b>130.0</b>	602.025	591.913	593.469	585.691	586.469	585.691	593.469	591.913	602.025	591.913
<b>132.5</b>	645.582	634.693	637.026	629.248	629.248	629.248	637.026	634.693	645.582	634.693

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-DAO-ITL85132-KPL2008-3.001.IES

## CANDELA TABULATION - (Cont.)

135.0	687.584	677.472	680.584	673.583	673.583	673.583	680.584	677.472	687.584	677.472
137.5	730.364	720.252	723.363	717.141	716.363	717.141	723.363	720.252	730.364	720.252
140.0	773.143	763.032	765.365	761.476	759.143	761.476	765.365	763.032	773.143	763.032
142.5	813.589	802.700	805.811	801.922	798.811	801.922	805.811	802.700	813.589	802.700
145.0	854.813	843.146	846.257	843.146	837.701	843.146	846.257	843.146	854.813	843.146
147.5	892.926	881.259	885.148	880.481	875.036	880.481	885.148	881.259	892.926	881.259
150.0	929.483	917.816	922.483	917.038	912.371	917.038	922.483	917.816	929.483	917.816
152.5	964.484	952.817	957.484	952.817	948.150	952.817	957.484	952.817	964.484	952.817
155.0	997.930	986.263	991.708	987.041	982.374	987.041	991.708	986.263	997.930	986.263
157.5	1026.709	1015.820	1022.042	1017.375	1012.709	1017.375	1022.042	1015.820	1026.709	1015.820
160.0	1054.710	1044.599	1050.043	1045.377	1040.710	1045.377	1050.043	1044.599	1054.710	1044.599
162.5	1078.822	1070.267	1074.156	1071.044	1067.933	1071.044	1074.156	1070.267	1078.822	1070.267
165.0	1100.601	1092.823	1095.157	1093.601	1091.267	1093.601	1095.157	1092.823	1100.601	1092.823
167.5	1116.935	1112.268	1113.824	1112.268	1111.491	1112.268	1113.824	1112.268	1116.935	1112.268
170.0	1131.714	1129.380	1130.158	1128.602	1127.824	1128.602	1130.158	1129.380	1131.714	1129.380
172.5	1144.159	1143.381	1143.381	1142.603	1142.603	1142.603	1143.381	1143.381	1144.159	1143.381
175.0	1152.715	1152.715	1152.715	1152.715	1151.937	1152.715	1152.715	1152.715	1152.715	1152.715
177.5	1157.381	1158.159	1158.159	1158.159	1157.381	1158.159	1158.159	1158.159	1157.381	1158.159
180.0	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493

## Vert. Angles

## Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
2.5	1070.208	1094.315	1111.517	1130.259	1131.845	1137.413	1143.471
5.0	1037.927	1073.466	1105.825	1142.421	1159.576	1176.491	1186.406
7.5	1005.965	1047.850	1097.201	1151.606	1183.809	1209.751	1222.676
10.0	974.906	1021.783	1084.602	1157.018	1201.944	1239.061	1252.764
12.5	944.569	993.204	1068.660	1157.951	1216.167	1263.581	1282.035
15.0	913.105	966.165	1049.794	1154.654	1226.743	1280.697	1298.622
17.5	882.450	935.058	1026.293	1146.318	1231.705	1286.996	1304.968
20.0	851.794	904.691	1003.687	1133.883	1228.773	1283.582	1299.275
22.5	821.543	871.959	975.388	1116.074	1222.272	1270.572	1284.477
25.0	789.255	839.468	945.059	1096.112	1201.127	1249.513	1258.783
27.5	759.090	806.052	910.500	1070.900	1179.088	1219.627	1231.129
30.0	728.675	771.003	875.863	1040.937	1147.539	1183.645	1190.473
32.5	697.856	735.837	836.583	1007.840	1114.278	1142.826	1145.586
35.0	665.413	699.039	798.532	971.328	1074.353	1095.217	1091.593
37.5	632.479	661.758	758.763	928.231	1029.956	1041.745	1035.486
40.0	600.035	625.285	720.300	885.537	983.032	985.723	974.984
42.5	567.342	588.696	675.903	838.823	929.288	925.307	907.327
45.0	533.195	550.716	633.295	790.437	875.373	863.133	841.467
47.5	498.713	513.963	589.544	740.472	823.083	797.553	779.013
50.0	465.779	475.827	545.389	686.067	761.695	732.097	708.106
52.5	430.653	439.596	502.781	633.824	703.386	668.057	642.565
55.0	395.689	402.602	458.221	581.659	644.680	604.506	579.302
57.5	360.476	365.803	416.748	529.618	582.312	541.772	514.896
60.0	320.373	321.998	377.391	476.682	524.734	483.596	457.490
62.5	293.909	295.223	329.953	426.508	466.837	427.114	399.912
65.0	260.306	260.291	298.481	377.188	413.738	373.526	352.428
67.5	226.221	226.750	260.952	329.821	360.718	324.743	305.099
70.0	193.824	193.575	222.209	285.020	310.302	277.578	261.029
72.5	162.352	162.142	187.284	240.048	259.077	232.606	217.605
75.0	131.176	131.510	153.409	199.470	214.028	191.950	180.036
77.5	101.018	102.527	123.275	161.209	171.334	154.459	143.603
80.0	72.385	75.309	93.607	124.744	132.630	120.553	112.543

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-DAO-ITL85132-KPL2008-3.001.IES****CANDELA TABULATION - (Cont.)**

82.5	47.383	49.918	67.960	92.705	98.071	89.166	84.081
85.0	23.252	27.957	42.966	68.356	71.809	62.539	60.502
87.5	4.083	7.629	20.266	35.640	40.322	38.168	36.317
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.334	25.668	25.668	25.668	23.334	23.334	23.334
95.0	52.891	53.669	54.447	53.669	52.891	52.891	55.224
97.5	83.226	84.004	84.004	84.004	83.226	84.781	87.115
100.0	115.894	115.894	115.116	115.894	115.894	115.894	119.783
102.5	149.339	148.562	148.562	148.562	149.339	150.895	154.006
105.0	183.563	182.785	182.007	182.785	183.563	187.452	189.786
107.5	219.342	218.565	217.787	218.565	219.342	224.009	226.343
110.0	258.233	256.677	254.344	256.677	258.233	262.122	264.455
112.5	297.901	294.012	291.679	294.012	297.901	300.235	304.124
115.0	339.903	332.125	330.569	332.125	339.903	341.459	343.792
117.5	381.905	372.571	371.015	372.571	381.905	381.905	385.794
120.0	423.906	414.573	411.462	414.573	423.906	422.351	428.573
122.5	465.908	458.130	452.685	458.130	465.908	462.797	469.019
125.0	507.910	500.132	496.243	500.132	507.910	504.799	514.132
127.5	549.912	543.689	542.134	543.689	549.912	548.356	558.468
130.0	593.469	585.691	586.469	585.691	593.469	591.913	602.025
132.5	637.026	629.248	629.248	629.248	637.026	634.693	645.582
135.0	680.584	673.583	673.583	673.583	680.584	677.472	687.584
137.5	723.363	717.141	716.363	717.141	723.363	720.252	730.364
140.0	765.365	761.476	759.143	761.476	765.365	763.032	773.143
142.5	805.811	801.922	798.811	801.922	805.811	802.700	813.589
145.0	846.257	843.146	837.701	843.146	846.257	843.146	854.813
147.5	885.148	880.481	875.036	880.481	885.148	881.259	892.926
150.0	922.483	917.038	912.371	917.038	922.483	917.816	929.483
152.5	957.484	952.817	948.150	952.817	957.484	952.817	964.484
155.0	991.708	987.041	982.374	987.041	991.708	986.263	997.930
157.5	1022.042	1017.375	1012.709	1017.375	1022.042	1015.820	1026.709
160.0	1050.043	1045.377	1040.710	1045.377	1050.043	1044.599	1054.710
162.5	1074.156	1071.044	1067.933	1071.044	1074.156	1070.267	1078.822
165.0	1095.157	1093.601	1091.267	1093.601	1095.157	1092.823	1100.601
167.5	1113.824	1112.268	1111.491	1112.268	1113.824	1112.268	1116.935
170.0	1130.158	1128.602	1127.824	1128.602	1130.158	1129.380	1131.714
172.5	1143.381	1142.603	1142.603	1142.603	1143.381	1143.381	1144.159
175.0	1152.715	1152.715	1151.937	1152.715	1152.715	1152.715	1152.715
177.5	1158.159	1158.159	1157.381	1158.159	1158.159	1158.159	1157.381
180.0	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-DAO-ITL85132-KPL2008-3.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	406.82	N.A.	6.90
0-30	861.60	N.A.	14.70
0-40	1394.96	N.A.	23.70
0-60	2366.56	N.A.	40.30
0-80	2858.75	N.A.	48.70
0-90	2908.44	N.A.	49.50
10-90	2803.61	N.A.	47.70
20-40	988.14	N.A.	16.80
20-50	1514.75	N.A.	25.80
40-70	1289.14	N.A.	21.90
60-80	492.19	N.A.	8.40
70-80	174.65	N.A.	3.00
80-90	49.69	N.A.	0.80
90-110	256.06	N.A.	4.40
90-120	590.93	N.A.	10.10
90-130	1042.58	N.A.	17.70
90-150	2093.58	N.A.	35.60
90-180	2966.07	N.A.	50.50
110-180	2710.01	N.A.	46.10
0-180	5874.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.83
10-20	301.99
20-30	454.77
30-40	533.36
40-50	526.62
50-60	444.98
60-70	317.55
70-80	174.65
80-90	49.69
90-100	59.94
100-110	196.12
110-120	334.86
120-130	451.65
130-140	523.12
140-150	527.87
150-160	454.85
160-170	308.35
170-180	109.29

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-DAO-ITL85132-KPL2008-3.001.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

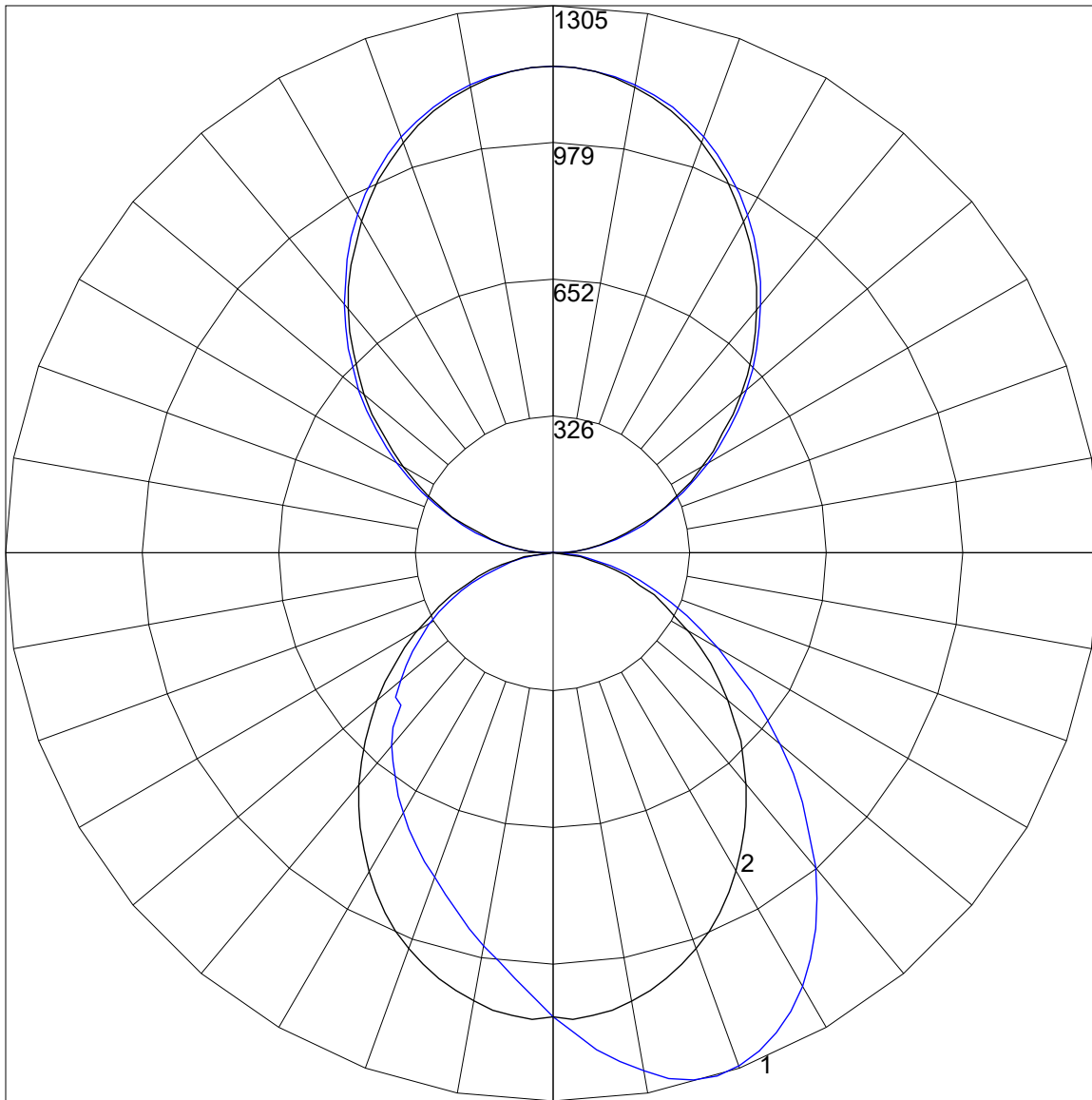
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	70	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	39	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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## POLAR GRAPH



Maximum Candela = 1304.968 Located At Horizontal Angle = 0, Vertical Angle = 17.5

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

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)