

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-4-ID-RG-4FT-B-V-835-ASYTG-F-ITL90353 ITL89988.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89988.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]06/05/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-B-V-835-ASYTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.0 WATTS

[_ABSOLUTE]LUMENS]5761

[OTHER]see www.finelite.com for source files ITL90353 and ITL89988. 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

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	55.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10292	9406	8717
55	9593	8287	7385
65	8724	6866	5708
75	7606	4780	3585
85	5554	3075	2870

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	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953
2.5	1480.999	1480.561	1480.123	1480.342	1480.780	1480.999	1480.999	1480.999	1480.999	1480.999
5.0	1474.106	1473.668	1473.230	1473.121	1473.121	1473.340	1473.778	1474.215	1474.653	1475.091
7.5	1463.274	1462.837	1462.399	1462.290	1462.290	1462.290	1462.290	1462.181	1461.743	1461.305
10.0	1449.489	1447.301	1445.112	1445.221	1446.096	1445.878	1444.565	1443.142	1441.392	1439.641
12.5	1429.794	1427.168	1424.542	1423.886	1423.886	1422.573	1419.947	1417.212	1414.149	1411.085
15.0	1407.146	1402.770	1398.393	1396.971	1396.533	1394.564	1391.063	1387.343	1382.966	1378.590
17.5	1379.574	1374.322	1369.071	1366.117	1363.928	1360.427	1355.613	1350.909	1346.532	1342.155
20.0	1347.079	1340.952	1334.825	1330.667	1327.166	1322.133	1315.568	1309.660	1305.721	1301.782
22.5	1311.630	1305.065	1298.500	1292.592	1286.903	1280.119	1272.241	1265.239	1260.862	1256.486
25.0	1273.226	1265.786	1258.346	1250.906	1243.466	1234.932	1225.303	1216.988	1212.611	1208.235
27.5	1231.868	1223.553	1215.238	1205.938	1196.309	1186.243	1175.740	1166.659	1161.845	1157.031
30.0	1186.572	1178.256	1169.941	1159.328	1147.949	1136.352	1124.535	1114.251	1108.561	1102.872
32.5	1139.306	1130.990	1122.675	1110.421	1096.854	1083.506	1070.376	1058.778	1051.776	1044.774
35.0	1092.040	1082.412	1072.783	1059.216	1044.336	1029.675	1015.233	1002.541	995.101	987.661
37.5	1042.805	1031.864	1020.922	1005.714	989.083	972.672	956.479	942.693	936.128	929.563
40.0	991.600	980.221	968.842	951.883	933.064	915.559	899.366	885.361	877.921	870.481
42.5	940.395	927.703	915.012	897.396	878.139	859.539	841.596	826.278	818.838	811.398
45.0	888.206	874.639	861.072	842.253	821.683	801.770	782.513	766.320	759.318	752.316
47.5	836.016	821.136	806.256	786.452	765.007	744.219	724.088	707.238	700.236	693.234
50.0	781.857	766.102	750.347	729.340	706.582	684.918	664.349	647.171	640.169	633.167
52.5	726.714	710.521	694.328	672.555	648.922	626.820	606.251	589.073	582.071	575.069
55.0	671.570	655.377	639.184	616.427	591.481	568.723	548.153	530.975	523.973	516.971
57.5	617.411	600.343	583.275	559.970	534.587	511.610	491.040	473.862	466.860	459.858
60.0	562.268	544.762	527.256	503.513	477.692	454.497	433.927	416.749	409.747	402.745
62.5	507.124	489.180	471.237	447.057	420.798	397.603	377.471	360.731	354.166	347.602
65.0	450.011	432.943	415.874	391.913	365.654	342.678	322.984	306.681	300.554	294.427
67.5	395.852	378.346	360.840	336.770	310.511	288.191	269.810	254.492	248.365	242.238
70.0	341.693	324.187	306.681	283.267	257.884	236.220	218.277	203.506	198.255	193.003
72.5	288.519	271.451	254.383	232.063	207.992	187.642	171.011	157.225	151.973	146.721
75.0	240.268	222.324	204.381	182.827	160.070	141.907	128.340	117.618	115.429	113.241
77.5	191.033	173.965	156.897	137.203	116.633	103.722	98.471	94.423	93.985	93.547
80.0	143.767	127.574	111.381	97.158	83.591	76.151	74.838	73.853	73.853	73.853
82.5	102.410	85.779	69.149	61.709	57.332	54.706	53.831	53.174	53.174	53.174
85.0	59.082	48.578	38.075	34.464	33.151	32.276	31.839	31.402	30.964	30.526
87.5	18.709	15.645	12.582	11.488	11.051	10.832	10.832	10.723	10.285	9.847
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	34.482	34.996	34.996	33.967	31.394	30.364	31.394	30.879	25.733	11.322
95.0	73.081	74.625	75.139	73.595	74.110	78.742	81.315	73.081	54.553	29.335
97.5	115.282	116.826	121.973	127.119	135.354	140.500	131.751	109.621	79.771	47.863
100.0	178.584	180.643	187.334	195.568	202.773	199.171	178.584	145.132	105.504	66.905
102.5	241.372	243.945	251.665	262.473	268.649	255.782	223.874	179.614	129.692	86.976
105.0	299.528	303.645	318.055	334.524	337.612	314.967	271.222	213.066	153.367	106.533
107.5	369.006	377.240	401.944	418.413	411.722	376.726	317.026	243.945	175.497	127.119
110.0	464.731	477.083	499.728	505.389	484.803	434.882	357.684	270.707	197.112	147.705
112.5	581.043	587.219	598.027	591.336	557.369	487.376	391.651	294.896	218.727	168.806
115.0	687.062	689.120	691.693	672.651	620.671	529.578	418.927	317.026	239.828	189.907
117.5	786.389	784.331	776.096	740.071	668.019	559.428	440.543	337.612	261.958	211.008
120.0	866.161	859.985	840.428	788.448	698.899	578.984	458.041	357.684	283.059	234.167
122.5	923.802	912.480	881.600	817.269	715.367	592.880	475.025	377.755	306.218	257.841
125.0	957.769	943.359	903.730	829.106	723.087	602.144	489.435	397.312	328.349	280.486
127.5	969.606	952.622	907.848	829.620	724.631	610.378	503.845	416.869	350.993	303.645
130.0	964.459	946.961	900.128	822.930	724.116	618.098	519.285	436.426	372.609	326.290
132.5	948.505	932.036	886.747	814.181	723.087	626.332	535.239	457.012	395.768	349.449

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	927.919	912.480	870.793	804.402	722.573	635.596	551.193	477.083	418.927	372.609
137.5	906.818	892.923	854.324	795.653	723.087	644.860	567.662	498.699	442.087	396.283
140.0	885.717	873.366	839.913	788.448	724.631	654.638	584.131	519.799	465.246	420.471
142.5	867.190	856.382	828.076	783.816	727.719	665.446	601.629	540.900	488.406	444.145
145.0	852.780	842.487	818.298	780.728	731.322	676.254	618.613	562.001	511.050	467.819
147.5	840.428	832.194	811.607	778.670	735.439	687.576	635.596	582.072	533.695	491.493
150.0	830.650	822.930	805.432	777.640	741.100	699.413	652.065	601.629	555.310	515.168
152.5	821.901	815.210	800.800	777.126	746.761	709.706	665.961	619.127	575.382	536.783
155.0	813.666	808.520	797.197	778.670	752.422	719.485	678.827	635.082	594.424	557.884
157.5	809.034	804.402	795.139	779.699	756.540	726.690	689.635	648.977	611.922	577.955
160.0	805.432	801.829	794.109	779.699	758.598	731.836	697.869	661.329	627.876	596.483
162.5	798.741	797.197	789.992	777.126	758.084	734.410	704.045	671.107	641.772	613.466
165.0	791.021	789.477	782.272	770.435	753.966	733.380	707.133	678.827	653.609	627.876
167.5	778.155	777.126	771.465	760.657	746.247	728.234	706.618	683.459	661.844	640.228
170.0	761.686	761.172	756.025	747.791	735.954	721.029	704.045	686.032	668.534	651.036
172.5	741.100	741.615	738.012	731.322	722.058	710.736	698.899	686.032	672.137	658.756
175.0	721.029	719.485	716.911	712.794	706.618	699.413	691.693	683.459	674.195	665.446
177.5	695.296	695.296	693.752	691.693	688.606	685.518	681.915	677.283	672.651	668.534
180.0	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078

**Vert.
Angles**

Horizontal Angles

	100	110	120	130	140	150	160	170	180
0.0	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953	1483.953
2.5	1480.999	1480.999	1480.999	1480.999	1480.780	1480.342	1480.123	1480.561	1480.999
5.0	1474.653	1474.215	1473.778	1473.340	1473.121	1473.121	1473.230	1473.668	1474.106
7.5	1461.743	1462.181	1462.290	1462.290	1462.290	1462.290	1462.399	1462.837	1463.274
10.0	1441.392	1443.142	1444.565	1445.878	1446.096	1445.221	1445.112	1447.301	1449.489
12.5	1414.149	1417.212	1419.947	1422.573	1423.886	1423.886	1424.542	1427.168	1429.794
15.0	1382.966	1387.343	1391.063	1394.564	1396.533	1396.971	1398.393	1402.770	1407.146
17.5	1346.532	1350.909	1355.613	1360.427	1363.928	1366.117	1369.071	1374.322	1379.574
20.0	1305.721	1309.660	1315.568	1322.133	1327.166	1330.667	1334.825	1340.952	1347.079
22.5	1260.862	1265.239	1272.241	1280.119	1286.903	1292.592	1298.500	1305.065	1311.630
25.0	1212.611	1216.988	1225.303	1234.932	1243.466	1250.906	1258.346	1265.786	1273.226
27.5	1161.845	1166.659	1175.740	1186.243	1196.309	1205.938	1215.238	1223.553	1231.868
30.0	1108.561	1114.251	1124.535	1136.352	1147.949	1159.328	1169.941	1178.256	1186.572
32.5	1051.776	1058.778	1070.376	1083.506	1096.854	1110.421	1122.675	1130.990	1139.306
35.0	995.101	1002.541	1015.233	1029.675	1044.336	1059.216	1072.783	1082.412	1092.040
37.5	936.128	942.693	956.479	972.672	989.083	1005.714	1020.922	1031.864	1042.805
40.0	877.921	885.361	899.366	915.559	933.064	951.883	968.842	980.221	991.600
42.5	818.838	826.278	841.596	859.539	878.139	897.396	915.012	927.703	940.395
45.0	759.318	766.320	782.513	801.770	821.683	842.253	861.072	874.639	888.206
47.5	700.236	707.238	724.088	744.219	765.007	786.452	806.256	821.136	836.016
50.0	640.169	647.171	664.349	684.918	706.582	729.340	750.347	766.102	781.857
52.5	582.071	589.073	606.251	626.820	648.922	672.555	694.328	710.521	726.714
55.0	523.973	530.975	548.153	568.723	591.481	616.427	639.184	655.377	671.570
57.5	466.860	473.862	491.040	511.610	534.587	559.970	583.275	600.343	617.411
60.0	409.747	416.749	433.927	454.497	477.692	503.513	527.256	544.762	562.268
62.5	354.166	360.731	377.471	397.603	420.798	447.057	471.237	489.180	507.124
65.0	300.554	306.681	322.984	342.678	365.654	391.913	415.874	432.943	450.011
67.5	248.365	254.492	269.810	288.191	310.511	336.770	360.840	378.346	395.852
70.0	198.255	203.506	218.277	236.220	257.884	283.267	306.681	324.187	341.693
72.5	151.973	157.225	171.011	187.642	207.992	232.063	254.383	271.451	288.519
75.0	115.429	117.618	128.340	141.907	160.070	182.827	204.381	222.324	240.268
77.5	93.985	94.423	98.471	103.722	116.633	137.203	156.897	173.965	191.033
80.0	73.853	73.853	74.838	76.151	83.591	97.158	111.381	127.574	143.767

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-ASYTG-F-ITL90353 ITL89988.012.IES****CANDELA TABULATION - (Cont.)**

82.5	53.174	53.174	53.831	54.706	57.332	61.709	69.149	85.779	102.410
85.0	30.964	31.402	31.839	32.276	33.151	34.464	38.075	48.578	59.082
87.5	10.285	10.723	10.832	10.832	11.051	11.488	12.582	15.645	18.709
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	19.557	27.791	35.511	43.231	48.892	53.009	56.612	58.156	59.700
95.0	35.511	44.775	55.583	66.905	75.654	81.315	86.462	88.006	90.064
97.5	51.465	60.729	73.595	88.520	99.843	108.592	115.797	118.370	120.943
100.0	68.449	77.713	91.608	107.048	119.914	130.722	139.986	143.588	147.191
102.5	85.432	94.696	109.621	126.605	139.986	149.764	157.998	161.601	165.204
105.0	103.445	110.650	125.575	142.559	156.969	168.292	177.555	180.129	182.702
107.5	121.458	126.090	140.500	157.998	172.923	185.275	195.053	197.627	199.685
110.0	138.956	141.015	155.425	173.438	189.392	202.773	213.066	215.639	217.698
112.5	156.454	155.425	169.835	188.878	205.861	219.757	230.565	233.652	236.226
115.0	174.982	170.865	184.246	203.288	220.786	235.711	247.548	250.636	253.724
117.5	194.539	186.819	198.656	217.184	234.682	251.665	265.046	268.134	271.222
120.0	214.610	203.288	213.066	230.050	247.548	265.561	279.971	284.088	288.206
122.5	235.196	219.757	227.477	242.401	259.385	278.942	294.896	300.043	304.675
125.0	255.268	235.711	240.343	253.209	269.678	289.750	306.733	312.909	319.085
127.5	275.339	252.180	253.724	263.502	278.942	299.013	316.512	324.231	331.951
130.0	295.411	268.134	266.590	273.795	286.662	305.704	322.173	330.922	339.671
132.5	315.482	284.088	279.971	284.603	294.896	311.880	326.290	334.010	342.244
135.0	337.098	302.616	294.381	294.896	302.616	316.512	328.863	336.068	343.273
137.5	359.228	322.173	310.336	306.733	310.336	321.658	331.951	337.612	343.273
140.0	381.872	343.273	326.805	318.055	317.541	326.290	334.010	338.642	343.273
142.5	404.517	364.889	344.303	329.378	325.261	330.922	336.583	339.671	343.273
145.0	427.676	386.504	361.286	341.215	332.980	336.583	339.671	341.729	343.788
147.5	450.321	408.120	379.299	355.111	343.273	343.788	344.303	345.332	346.361
150.0	473.995	431.794	399.885	371.579	355.625	352.537	349.964	350.479	350.479
152.5	497.669	455.982	423.045	392.680	373.123	363.860	357.169	356.140	355.111
155.0	520.829	481.715	448.777	418.413	395.253	379.814	367.462	365.404	363.345
157.5	543.473	507.448	476.054	445.689	420.471	400.915	385.475	380.843	376.726
160.0	565.089	532.666	502.301	472.966	448.777	429.735	413.781	407.605	401.429
162.5	585.160	556.854	528.548	500.757	478.113	460.614	446.204	440.543	434.367
165.0	603.173	578.984	554.796	531.122	510.536	493.037	478.627	473.481	468.334
167.5	619.127	599.056	579.499	559.942	542.444	527.005	513.624	508.477	503.330
170.0	633.538	617.583	602.144	587.219	573.838	562.516	553.252	549.135	545.017
172.5	645.889	633.538	622.215	611.408	602.144	594.424	588.248	585.160	582.587
175.0	656.697	647.948	640.743	634.052	627.876	623.245	619.127	617.583	615.525
177.5	664.417	659.785	656.182	652.580	650.006	647.433	645.375	644.345	643.316
180.0	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-ASYTG-F-ITL90353 ITL89988.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	532.06	N.A.	9.20
0-30	1101.99	N.A.	19.10
0-40	1750.48	N.A.	30.40
0-60	2902.07	N.A.	50.40
0-80	3435.25	N.A.	59.60
0-90	3477.96	N.A.	60.40
10-90	3338.19	N.A.	57.90
20-40	1218.41	N.A.	21.10
20-50	1846.53	N.A.	32.10
40-70	1509.68	N.A.	26.20
60-80	533.18	N.A.	9.30
70-80	175.10	N.A.	3.00
80-90	42.71	N.A.	0.70
90-110	297.32	N.A.	5.20
90-120	653.48	N.A.	11.30
90-130	1063.74	N.A.	18.50
90-150	1777.81	N.A.	30.90
90-180	2282.96	N.A.	39.60
110-180	1985.64	N.A.	34.50
0-180	5760.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.78
10-20	392.29
20-30	569.93
30-40	648.48
40-50	628.11
50-60	523.48
60-70	358.08
70-80	175.10
80-90	42.71
90-100	75.33
100-110	221.99
110-120	356.16
120-130	410.26
130-140	383.40
140-150	330.68
150-160	264.28
160-170	177.64
170-180	63.22

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-ASYTG-F-ITL90353 ITL89988.012.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

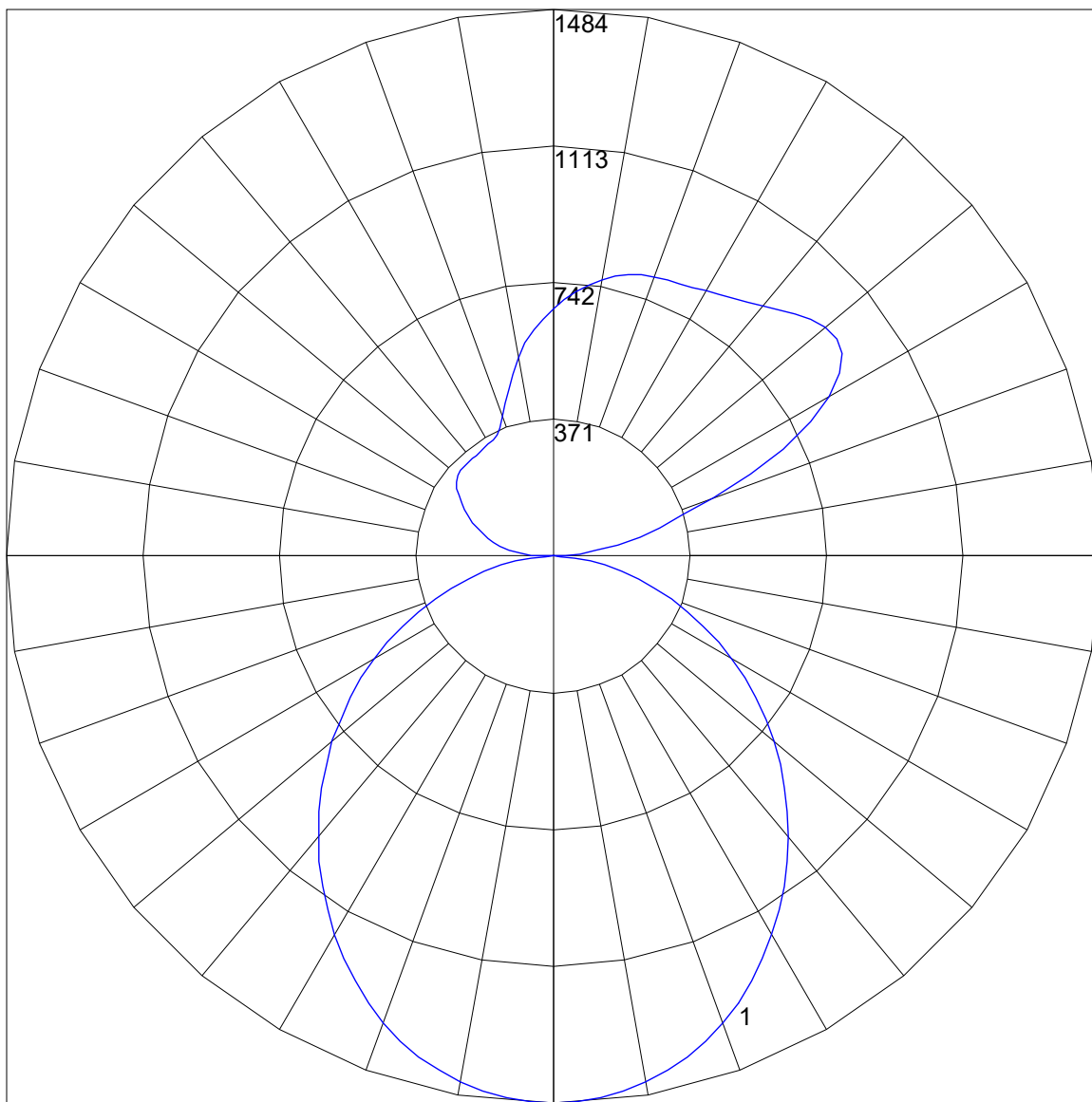
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	56	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	25
7	61	48	40	35	56	46	38	33	40	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	42	34	30	37	31	27	33	28	25	29	25	22	20
9	52	40	33	28	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 1483.953 Located At Horizontal Angle = 0, Vertical Angle = 0

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