

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-F-DAO-ITL85132-KPL2008-3.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.007 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-V-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.9 WATTS

[OTHER]see 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

[_ABSOLUTE]LUMENS]6708

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	64.1
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	23232	24168	17485
55	19717	21943	15596
65	16280	19112	13788
75	13580	16144	11572
85	13552	16085	9624

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>
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	1462.610	1455.450	1453.410	1429.310	1407.190	1376.190	1361.030	1362.280	1361.030
5.0	1525.610	1512.860	1491.110	1469.050	1421.990	1380.380	1334.680	1311.680	1306.860	1311.680
7.5	1572.250	1555.630	1522.270	1480.860	1410.900	1347.440	1293.580	1255.680	1261.270	1255.680
10.0	1610.940	1593.320	1545.590	1487.820	1394.700	1313.920	1253.640	1223.260	1220.910	1223.260
12.5	1648.580	1624.850	1563.880	1489.020	1374.200	1277.170	1214.630	1180.080	1178.660	1180.080
15.0	1669.910	1646.860	1577.480	1484.780	1349.940	1242.400	1174.170	1131.720	1136.210	1131.720
17.5	1678.070	1654.960	1583.860	1474.060	1319.720	1202.400	1134.750	1099.560	1097.940	1099.560
20.0	1670.750	1650.570	1580.090	1458.070	1290.650	1163.350	1095.330	1063.280	1059.250	1063.280
22.5	1651.720	1633.840	1571.730	1435.170	1254.260	1121.260	1056.430	1026.210	1023.700	1026.210
25.0	1618.680	1606.760	1544.540	1409.500	1215.260	1079.480	1014.910	988.990	988.560	988.990
27.5	1583.120	1568.330	1516.200	1377.080	1170.820	1036.510	976.120	952.340	953.010	952.340
30.0	1530.840	1522.060	1475.630	1338.550	1126.280	991.440	937.010	914.280	917.460	914.280
32.5	1473.120	1469.570	1432.860	1295.990	1075.770	946.220	897.380	877.410	881.280	877.410
35.0	1403.690	1408.350	1381.520	1249.040	1026.840	898.900	855.660	840.190	842.380	840.190
37.5	1331.540	1339.590	1324.430	1193.620	975.700	850.960	813.310	801.710	805.160	801.710
40.0	1253.740	1267.550	1264.090	1138.720	926.240	804.060	771.590	762.910	767.510	762.910
42.5	1166.740	1189.860	1194.980	1078.650	869.150	757.010	729.550	725.170	726.940	725.170
45.0	1082.050	1109.910	1125.650	1016.430	814.360	708.170	685.640	683.810	658.350	683.810
47.5	1001.740	1025.580	1058.410	952.180	758.100	660.910	641.300	643.080	651.230	643.080
50.0	910.560	941.410	979.470	882.220	701.320	611.870	598.950	601.830	608.570	601.830
52.5	826.280	859.060	904.490	815.040	646.530	565.280	553.780	558.800	567.790	558.800
55.0	744.930	777.340	829.000	747.960	589.230	517.710	508.820	517.810	523.460	517.810
57.5	662.110	696.670	748.800	681.040	535.900	470.390	463.540	473.530	481.000	473.530
60.0	588.290	621.860	674.760	612.970	485.290	414.060	411.970	427.520	438.130	427.520
62.5	514.250	549.230	600.310	548.450	424.290	379.630	377.940	389.800	393.540	389.800
65.0	453.190	480.320	532.030	485.030	383.820	334.710	334.730	346.340	349.460	346.340
67.5	392.330	417.590	463.850	424.120	335.560	291.580	290.900	301.560	302.450	301.560
70.0	335.660	356.940	399.020	366.510	285.740	248.920	249.240	257.820	263.880	257.820
72.5	279.820	299.110	333.150	308.680	240.830	208.500	208.770	214.380	217.520	214.380
75.0	231.510	246.830	275.220	256.500	197.270	169.110	168.680	163.680	175.000	163.680
77.5	184.660	198.620	220.320	207.300	158.520	131.840	129.900	131.900	131.360	131.900
80.0	144.720	155.020	170.550	160.410	120.370	96.840	93.080	92.070	92.390	92.070
82.5	108.120	114.660	126.110	119.210	87.390	64.190	60.930	52.070	55.780	52.070
85.0	77.800	80.420	92.340	87.900	55.250	35.950	29.900	24.420	20.370	24.420
87.5	46.700	49.080	51.850	45.830	26.060	9.810	5.250	1.880	1.280	1.880
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.334	23.334	23.334	25.668	25.668	25.668	23.334	23.334	23.334	23.334
95.0	55.225	52.891	52.891	53.669	54.447	53.669	52.891	52.891	55.225	52.891
97.5	87.115	84.781	83.226	84.003	84.003	84.003	83.226	84.781	87.115	84.781
100.0	119.783	115.894	115.894	115.894	115.116	115.894	115.894	115.894	119.783	115.894
102.5	154.006	150.895	149.340	148.562	148.562	148.562	149.340	150.895	154.006	150.895
105.0	189.786	187.452	183.563	182.785	182.008	182.785	183.563	187.452	189.786	187.452
107.5	226.343	224.009	219.342	218.565	217.787	218.565	219.342	224.009	226.343	224.009
110.0	264.455	262.122	258.233	256.677	254.344	256.677	258.233	262.122	264.455	262.122
112.5	304.124	300.235	297.901	294.012	291.679	294.012	297.901	300.235	304.124	300.235
115.0	343.792	341.459	339.903	332.125	330.569	332.125	339.903	341.459	343.792	341.459
117.5	385.794	381.905	381.905	372.571	371.015	372.571	381.905	381.905	385.794	381.905
120.0	428.573	422.351	423.906	414.573	411.461	414.573	423.906	422.351	428.573	422.351
122.5	469.019	462.797	465.908	458.130	452.685	458.130	465.908	462.797	469.019	462.797
125.0	514.132	504.799	507.910	500.132	496.243	500.132	507.910	504.799	514.132	504.799
127.5	558.468	548.356	549.912	543.689	542.134	543.689	549.912	548.356	558.468	548.356
130.0	602.025	591.913	593.469	585.691	586.469	585.691	593.469	591.913	602.025	591.913
132.5	645.582	634.693	637.026	629.248	629.248	629.248	637.026	634.693	645.582	634.693

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	687.584	677.473	680.584	673.583	673.583	673.583	680.584	677.473	687.584	677.473
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	1078.823	1070.267	1074.156	1071.044	1067.933	1071.044	1074.156	1070.267	1078.823	1070.267
165.0	1100.601	1092.823	1095.156	1093.601	1091.267	1093.601	1095.156	1092.823	1100.601	1092.823
167.5	1116.935	1112.268	1113.824	1112.268	1111.490	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	1152.714	1152.714	1152.714	1152.714	1151.937	1152.714	1152.714	1152.714	1152.714	1152.714
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	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990
2.5	1376.190	1407.190	1429.310	1453.410	1455.450	1462.610	1470.400
5.0	1334.680	1380.380	1421.990	1469.050	1491.110	1512.860	1525.610
7.5	1293.580	1347.440	1410.900	1480.860	1522.270	1555.630	1572.250
10.0	1253.640	1313.920	1394.700	1487.820	1545.590	1593.320	1610.940
12.5	1214.630	1277.170	1374.200	1489.020	1563.880	1624.850	1648.580
15.0	1174.170	1242.400	1349.940	1484.780	1577.480	1646.860	1669.910
17.5	1134.750	1202.400	1319.720	1474.060	1583.860	1654.960	1678.070
20.0	1095.330	1163.350	1290.650	1458.070	1580.090	1650.570	1670.750
22.5	1056.430	1121.260	1254.260	1435.170	1571.730	1633.840	1651.720
25.0	1014.910	1079.480	1215.260	1409.500	1544.540	1606.760	1618.680
27.5	976.120	1036.510	1170.820	1377.080	1516.200	1568.330	1583.120
30.0	937.010	991.440	1126.280	1338.550	1475.630	1522.060	1530.840
32.5	897.380	946.220	1075.770	1295.990	1432.860	1469.570	1473.120
35.0	855.660	898.900	1026.840	1249.040	1381.520	1408.350	1403.690
37.5	813.310	850.960	975.700	1193.620	1324.430	1339.590	1331.540
40.0	771.590	804.060	926.240	1138.720	1264.090	1267.550	1253.740
42.5	729.550	757.010	869.150	1078.650	1194.980	1189.860	1166.740
45.0	685.640	708.170	814.360	1016.430	1125.650	1109.910	1082.050
47.5	641.300	660.910	758.100	952.180	1058.410	1025.580	1001.740
50.0	598.950	611.870	701.320	882.220	979.470	941.410	910.560
52.5	553.780	565.280	646.530	815.040	904.490	859.060	826.280
55.0	508.820	517.710	589.230	747.960	829.000	777.340	744.930
57.5	463.540	470.390	535.900	681.040	748.800	696.670	662.110
60.0	411.970	414.060	485.290	612.970	674.760	621.860	588.290
62.5	377.940	379.630	424.290	548.450	600.310	549.230	514.250
65.0	334.730	334.710	383.820	485.030	532.030	480.320	453.190
67.5	290.900	291.580	335.560	424.120	463.850	417.590	392.330
70.0	249.240	248.920	285.740	366.510	399.020	356.940	335.660
72.5	208.770	208.500	240.830	308.680	333.150	299.110	279.820
75.0	168.680	169.110	197.270	256.500	275.220	246.830	231.510
77.5	129.900	131.840	158.520	207.300	220.320	198.620	184.660
80.0	93.080	96.840	120.370	160.410	170.550	155.020	144.720

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DAO-ITL85132-KPL2008-3.007.IES****CANDELA TABULATION - (Cont.)**

82.5	60.930	64.190	87.390	119.210	126.110	114.660	108.120
85.0	29.900	35.950	55.250	87.900	92.340	80.420	77.800
87.5	5.250	9.810	26.060	45.830	51.850	49.080	46.700
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	55.225
97.5	83.226	84.003	84.003	84.003	83.226	84.781	87.115
100.0	115.894	115.894	115.116	115.894	115.894	115.894	119.783
102.5	149.340	148.562	148.562	148.562	149.340	150.895	154.006
105.0	183.563	182.785	182.008	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	411.461	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	677.473	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	1078.823
165.0	1095.156	1093.601	1091.267	1093.601	1095.156	1092.823	1100.601
167.5	1113.824	1112.268	1111.490	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	1152.714	1152.714	1151.937	1152.714	1152.714	1152.714	1152.714
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-V-835-F-DAO-ITL85132-KPL2008-3.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.14	N.A.	7.80
0-30	1107.93	N.A.	16.50
0-40	1793.79	N.A.	26.70
0-60	3043.17	N.A.	45.40
0-80	3676.09	N.A.	54.80
0-90	3739.99	N.A.	55.80
10-90	3605.19	N.A.	53.80
20-40	1270.65	N.A.	18.90
20-50	1947.83	N.A.	29.00
40-70	1657.72	N.A.	24.70
60-80	632.92	N.A.	9.40
70-80	224.58	N.A.	3.30
80-90	63.90	N.A.	1.00
90-110	256.06	N.A.	3.80
90-120	590.93	N.A.	8.80
90-130	1042.58	N.A.	15.50
90-150	2093.58	N.A.	31.20
90-180	2966.07	N.A.	44.20
110-180	2710.01	N.A.	40.40
0-180	6706.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.80
10-20	388.33
20-30	584.80
30-40	685.86
40-50	677.18
50-60	572.20
60-70	408.34
70-80	224.58
80-90	63.90
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

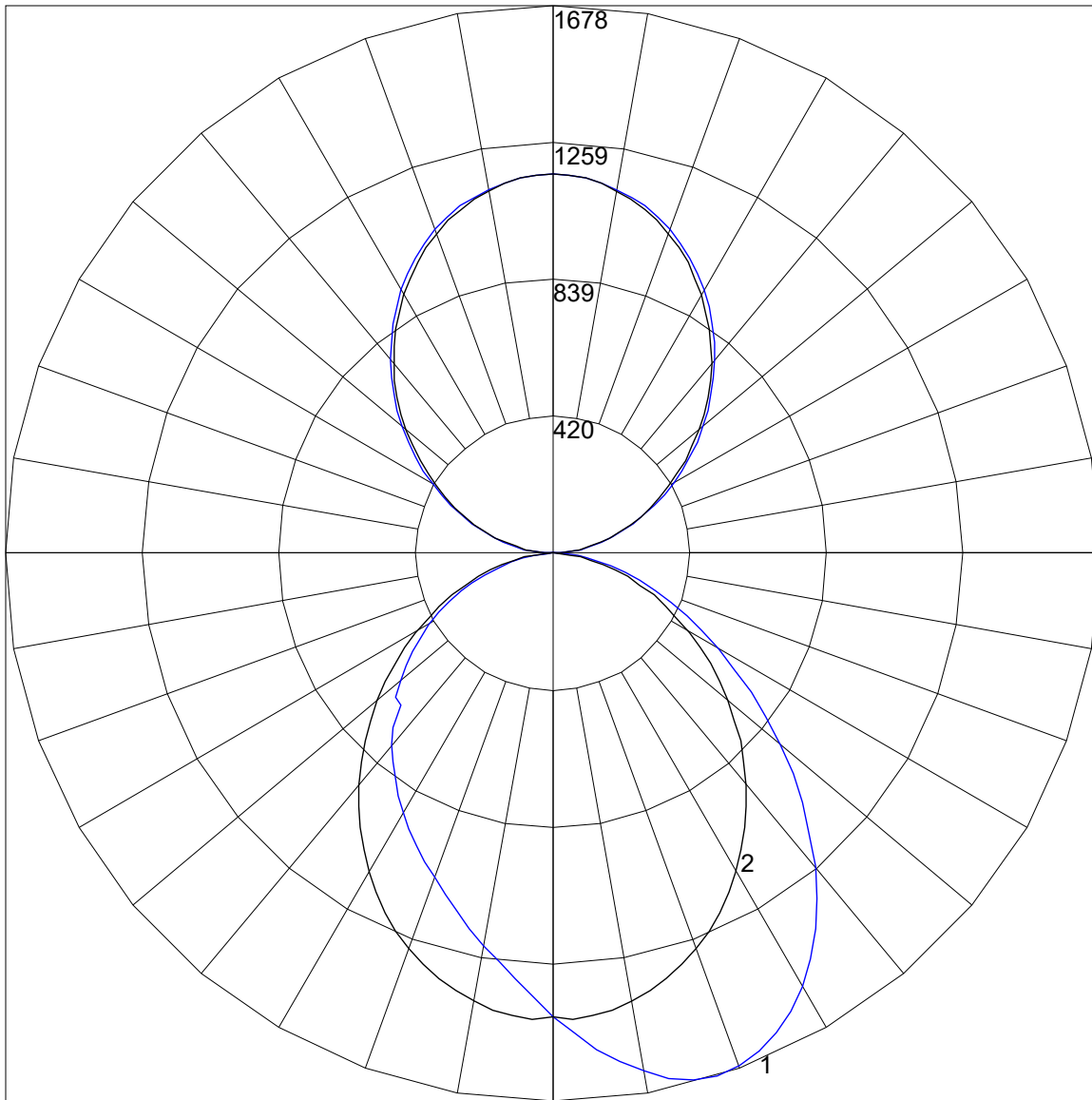
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	82	73	66	60	76	68	62	56	59	54	50	50	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DAO-ITL85132-KPL2008-3.007.IES

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.)

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