

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-V-V-8TW-F-DAO-ITL85132-KPL2008-3.900.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL85132-KPL2008-3.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-V-8TW-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 80.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 80.9 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]7553

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7553
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	80.2
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)	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DAO-ITL85132-KPL2008-3.900.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>
0.0	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99
2.5	1470.40	1462.61	1455.45	1453.41	1429.31	1407.19	1376.19	1361.03	1362.28	1361.03
5.0	1525.61	1512.86	1491.11	1469.05	1421.99	1380.38	1334.68	1311.68	1306.86	1311.68
7.5	1572.25	1555.63	1522.27	1480.86	1410.90	1347.44	1293.58	1255.68	1261.27	1255.68
10.0	1610.94	1593.32	1545.59	1487.82	1394.70	1313.92	1253.64	1223.26	1220.91	1223.26
12.5	1648.58	1624.85	1563.88	1489.02	1374.20	1277.17	1214.63	1180.08	1178.66	1180.08
15.0	1669.91	1646.86	1577.48	1484.78	1349.94	1242.40	1174.17	1131.72	1136.21	1131.72
17.5	1678.07	1654.96	1583.86	1474.06	1319.72	1202.40	1134.75	1099.56	1097.94	1099.56
20.0	1670.75	1650.57	1580.09	1458.07	1290.65	1163.35	1095.33	1063.28	1059.25	1063.28
22.5	1651.72	1633.84	1571.73	1435.17	1254.26	1121.26	1056.43	1026.21	1023.70	1026.21
25.0	1618.68	1606.76	1544.54	1409.50	1215.26	1079.48	1014.91	988.99	988.56	988.99
27.5	1583.12	1568.33	1516.20	1377.08	1170.82	1036.51	976.12	952.34	953.01	952.34
30.0	1530.84	1522.06	1475.63	1338.55	1126.28	991.44	937.01	914.28	917.46	914.28
32.5	1473.12	1469.57	1432.86	1295.99	1075.77	946.22	897.38	877.41	881.28	877.41
35.0	1403.69	1408.35	1381.52	1249.04	1026.84	898.90	855.66	840.19	842.38	840.19
37.5	1331.54	1339.59	1324.43	1193.62	975.70	850.96	813.31	801.71	805.16	801.71
40.0	1253.74	1267.55	1264.09	1138.72	926.24	804.06	771.59	762.91	767.51	762.91
42.5	1166.74	1189.86	1194.98	1078.65	869.15	757.01	729.55	725.17	726.94	725.17
45.0	1082.05	1109.91	1125.65	1016.43	814.36	708.17	685.64	683.81	658.35	683.81
47.5	1001.74	1025.58	1058.41	952.18	758.10	660.91	641.30	643.08	651.23	643.08
50.0	910.56	941.41	979.47	882.22	701.32	611.87	598.95	601.83	608.57	601.83
52.5	826.28	859.06	904.49	815.04	646.53	565.28	553.78	558.80	567.79	558.80
55.0	744.93	777.34	829.00	747.96	589.23	517.71	508.82	517.81	523.46	517.81
57.5	662.11	696.67	748.80	681.04	535.90	470.39	463.54	473.53	481.00	473.53
60.0	588.29	621.86	674.76	612.97	485.29	414.06	411.97	427.52	438.13	427.52
62.5	514.25	549.23	600.31	548.45	424.29	379.63	377.94	389.80	393.54	389.80
65.0	453.19	480.32	532.03	485.03	383.82	334.71	334.73	346.34	349.46	346.34
67.5	392.33	417.59	463.85	424.12	335.56	291.58	290.90	301.56	302.45	301.56
70.0	335.66	356.94	399.02	366.51	285.74	248.92	249.24	257.82	263.88	257.82
72.5	279.82	299.11	333.15	308.68	240.83	208.50	208.77	214.38	217.52	214.38
75.0	231.51	246.83	275.22	256.50	197.27	169.11	168.68	163.68	175.00	163.68
77.5	184.66	198.62	220.32	207.30	158.52	131.84	129.90	131.90	131.36	131.90
80.0	144.72	155.02	170.55	160.41	120.37	96.84	93.08	92.07	92.39	92.07
82.5	108.12	114.66	126.11	119.21	87.39	64.19	60.93	52.07	55.78	52.07
85.0	77.80	80.42	92.34	87.90	55.25	35.95	29.90	24.42	20.37	24.42
87.5	46.70	49.08	51.85	45.83	26.06	9.81	5.25	1.88	1.28	1.88
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	30.00	30.00	30.00	33.00	33.00	33.00	30.00	30.00	30.00	30.00
95.0	71.00	68.00	68.00	69.00	70.00	69.00	68.00	68.00	71.00	68.00
97.5	112.00	109.00	107.00	108.00	108.00	108.00	107.00	109.00	112.00	109.00
100.0	154.00	149.00	149.00	149.00	148.00	149.00	149.00	149.00	154.00	149.00
102.5	198.00	194.00	192.00	191.00	191.00	191.00	192.00	194.00	198.00	194.00
105.0	244.00	241.00	236.00	235.00	234.00	235.00	236.00	241.00	244.00	241.00
107.5	291.00	288.00	282.00	281.00	280.00	281.00	282.00	288.00	291.00	288.00
110.0	340.00	337.00	332.00	330.00	327.00	330.00	332.00	337.00	340.00	337.00
112.5	391.00	386.00	383.00	378.00	375.00	378.00	383.00	386.00	391.00	386.00
115.0	442.00	439.00	437.00	427.00	425.00	427.00	437.00	439.00	442.00	439.00
117.5	496.00	491.00	491.00	479.00	477.00	479.00	491.00	491.00	496.00	491.00
120.0	551.00	543.00	545.00	533.00	529.00	533.00	545.00	543.00	551.00	543.00
122.5	603.00	595.00	599.00	589.00	582.00	589.00	599.00	595.00	603.00	595.00
125.0	661.00	649.00	653.00	643.00	638.00	643.00	653.00	649.00	661.00	649.00
127.5	718.00	705.00	707.00	699.00	697.00	699.00	707.00	705.00	718.00	705.00
130.0	774.00	761.00	763.00	753.00	754.00	753.00	763.00	761.00	774.00	761.00
132.5	830.00	816.00	819.00	809.00	809.00	809.00	819.00	816.00	830.00	816.00

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	884.00	871.00	875.00	866.00	866.00	866.00	875.00	871.00	884.00	871.00
137.5	939.00	926.00	930.00	922.00	921.00	922.00	930.00	926.00	939.00	926.00
140.0	994.00	981.00	984.00	979.00	976.00	979.00	984.00	981.00	994.00	981.00
142.5	1046.00	1032.00	1036.00	1031.00	1027.00	1031.00	1036.00	1032.00	1046.00	1032.00
145.0	1099.00	1084.00	1088.00	1084.00	1077.00	1084.00	1088.00	1084.00	1099.00	1084.00
147.5	1148.00	1133.00	1138.00	1132.00	1125.00	1132.00	1138.00	1133.00	1148.00	1133.00
150.0	1195.00	1180.00	1186.00	1179.00	1173.00	1179.00	1186.00	1180.00	1195.00	1180.00
152.5	1240.00	1225.00	1231.00	1225.00	1219.00	1225.00	1231.00	1225.00	1240.00	1225.00
155.0	1283.00	1268.00	1275.00	1269.00	1263.00	1269.00	1275.00	1268.00	1283.00	1268.00
157.5	1320.00	1306.00	1314.00	1308.00	1302.00	1308.00	1314.00	1306.00	1320.00	1306.00
160.0	1356.00	1343.00	1350.00	1344.00	1338.00	1344.00	1350.00	1343.00	1356.00	1343.00
162.5	1387.00	1376.00	1381.00	1377.00	1373.00	1377.00	1381.00	1376.00	1387.00	1376.00
165.0	1415.00	1405.00	1408.00	1406.00	1403.00	1406.00	1408.00	1405.00	1415.00	1405.00
167.5	1436.00	1430.00	1432.00	1430.00	1429.00	1430.00	1432.00	1430.00	1436.00	1430.00
170.0	1455.00	1452.00	1453.00	1451.00	1450.00	1451.00	1453.00	1452.00	1455.00	1452.00
172.5	1471.00	1470.00	1470.00	1469.00	1469.00	1469.00	1470.00	1470.00	1471.00	1470.00
175.0	1482.00	1482.00	1482.00	1482.00	1481.00	1482.00	1482.00	1482.00	1482.00	1482.00
177.5	1488.00	1489.00	1489.00	1489.00	1488.00	1489.00	1489.00	1489.00	1488.00	1489.00
180.0	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00

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	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99	1421.99
2.5	1376.19	1407.19	1429.31	1453.41	1455.45	1462.61	1470.40
5.0	1334.68	1380.38	1421.99	1469.05	1491.11	1512.86	1525.61
7.5	1293.58	1347.44	1410.90	1480.86	1522.27	1555.63	1572.25
10.0	1253.64	1313.92	1394.70	1487.82	1545.59	1593.32	1610.94
12.5	1214.63	1277.17	1374.20	1489.02	1563.88	1624.85	1648.58
15.0	1174.17	1242.40	1349.94	1484.78	1577.48	1646.86	1669.91
17.5	1134.75	1202.40	1319.72	1474.06	1583.86	1654.96	1678.07
20.0	1095.33	1163.35	1290.65	1458.07	1580.09	1650.57	1670.75
22.5	1056.43	1121.26	1254.26	1435.17	1571.73	1633.84	1651.72
25.0	1014.91	1079.48	1215.26	1409.50	1544.54	1606.76	1618.68
27.5	976.12	1036.51	1170.82	1377.08	1516.20	1568.33	1583.12
30.0	937.01	991.44	1126.28	1338.55	1475.63	1522.06	1530.84
32.5	897.38	946.22	1075.77	1295.99	1432.86	1469.57	1473.12
35.0	855.66	898.90	1026.84	1249.04	1381.52	1408.35	1403.69
37.5	813.31	850.96	975.70	1193.62	1324.43	1339.59	1331.54
40.0	771.59	804.06	926.24	1138.72	1264.09	1267.55	1253.74
42.5	729.55	757.01	869.15	1078.65	1194.98	1189.86	1166.74
45.0	685.64	708.17	814.36	1016.43	1125.65	1109.91	1082.05
47.5	641.30	660.91	758.10	952.18	1058.41	1025.58	1001.74
50.0	598.95	611.87	701.32	882.22	979.47	941.41	910.56
52.5	553.78	565.28	646.53	815.04	904.49	859.06	826.28
55.0	508.82	517.71	589.23	747.96	829.00	777.34	744.93
57.5	463.54	470.39	535.90	681.04	748.80	696.67	662.11
60.0	411.97	414.06	485.29	612.97	674.76	621.86	588.29
62.5	377.94	379.63	424.29	548.45	600.31	549.23	514.25
65.0	334.73	334.71	383.82	485.03	532.03	480.32	453.19
67.5	290.90	291.58	335.56	424.12	463.85	417.59	392.33
70.0	249.24	248.92	285.74	366.51	399.02	356.94	335.66
72.5	208.77	208.50	240.83	308.68	333.15	299.11	279.82
75.0	168.68	169.11	197.27	256.50	275.22	246.83	231.51
77.5	129.90	131.84	158.52	207.30	220.32	198.62	184.66
80.0	93.08	96.84	120.37	160.41	170.55	155.02	144.72

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

82.5	60.93	64.19	87.39	119.21	126.11	114.66	108.12
85.0	29.90	35.95	55.25	87.90	92.34	80.42	77.80
87.5	5.25	9.81	26.06	45.83	51.85	49.08	46.70
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	30.00	33.00	33.00	33.00	30.00	30.00	30.00
95.0	68.00	69.00	70.00	69.00	68.00	68.00	71.00
97.5	107.00	108.00	108.00	108.00	107.00	109.00	112.00
100.0	149.00	149.00	148.00	149.00	149.00	149.00	154.00
102.5	192.00	191.00	191.00	191.00	192.00	194.00	198.00
105.0	236.00	235.00	234.00	235.00	236.00	241.00	244.00
107.5	282.00	281.00	280.00	281.00	282.00	288.00	291.00
110.0	332.00	330.00	327.00	330.00	332.00	337.00	340.00
112.5	383.00	378.00	375.00	378.00	383.00	386.00	391.00
115.0	437.00	427.00	425.00	427.00	437.00	439.00	442.00
117.5	491.00	479.00	477.00	479.00	491.00	491.00	496.00
120.0	545.00	533.00	529.00	533.00	545.00	543.00	551.00
122.5	599.00	589.00	582.00	589.00	599.00	595.00	603.00
125.0	653.00	643.00	638.00	643.00	653.00	649.00	661.00
127.5	707.00	699.00	697.00	699.00	707.00	705.00	718.00
130.0	763.00	753.00	754.00	753.00	763.00	761.00	774.00
132.5	819.00	809.00	809.00	809.00	819.00	816.00	830.00
135.0	875.00	866.00	866.00	866.00	875.00	871.00	884.00
137.5	930.00	922.00	921.00	922.00	930.00	926.00	939.00
140.0	984.00	979.00	976.00	979.00	984.00	981.00	994.00
142.5	1036.00	1031.00	1027.00	1031.00	1036.00	1032.00	1046.00
145.0	1088.00	1084.00	1077.00	1084.00	1088.00	1084.00	1099.00
147.5	1138.00	1132.00	1125.00	1132.00	1138.00	1133.00	1148.00
150.0	1186.00	1179.00	1173.00	1179.00	1186.00	1180.00	1195.00
152.5	1231.00	1225.00	1219.00	1225.00	1231.00	1225.00	1240.00
155.0	1275.00	1269.00	1263.00	1269.00	1275.00	1268.00	1283.00
157.5	1314.00	1308.00	1302.00	1308.00	1314.00	1306.00	1320.00
160.0	1350.00	1344.00	1338.00	1344.00	1350.00	1343.00	1356.00
162.5	1381.00	1377.00	1373.00	1377.00	1381.00	1376.00	1387.00
165.0	1408.00	1406.00	1403.00	1406.00	1408.00	1405.00	1415.00
167.5	1432.00	1430.00	1429.00	1430.00	1432.00	1430.00	1436.00
170.0	1453.00	1451.00	1450.00	1451.00	1453.00	1452.00	1455.00
172.5	1470.00	1469.00	1469.00	1469.00	1470.00	1470.00	1471.00
175.0	1482.00	1482.00	1481.00	1482.00	1482.00	1482.00	1482.00
177.5	1489.00	1489.00	1488.00	1489.00	1489.00	1489.00	1488.00
180.0	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00	1492.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DAO-ITL85132-KPL2008-3.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.14	N.A.	6.90
0-30	1107.93	N.A.	14.70
0-40	1793.79	N.A.	23.70
0-60	3043.17	N.A.	40.30
0-80	3676.09	N.A.	48.70
0-90	3739.99	N.A.	49.50
10-90	3605.19	N.A.	47.70
20-40	1270.65	N.A.	16.80
20-50	1947.83	N.A.	25.80
40-70	1657.72	N.A.	21.90
60-80	632.92	N.A.	8.40
70-80	224.58	N.A.	3.00
80-90	63.90	N.A.	0.80
90-110	329.21	N.A.	4.40
90-120	759.73	N.A.	10.10
90-130	1340.41	N.A.	17.70
90-150	2691.63	N.A.	35.60
90-180	3813.36	N.A.	50.50
110-180	3484.15	N.A.	46.10
0-180	7553.36	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	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DAO-ITL85132-KPL2008-3.900.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

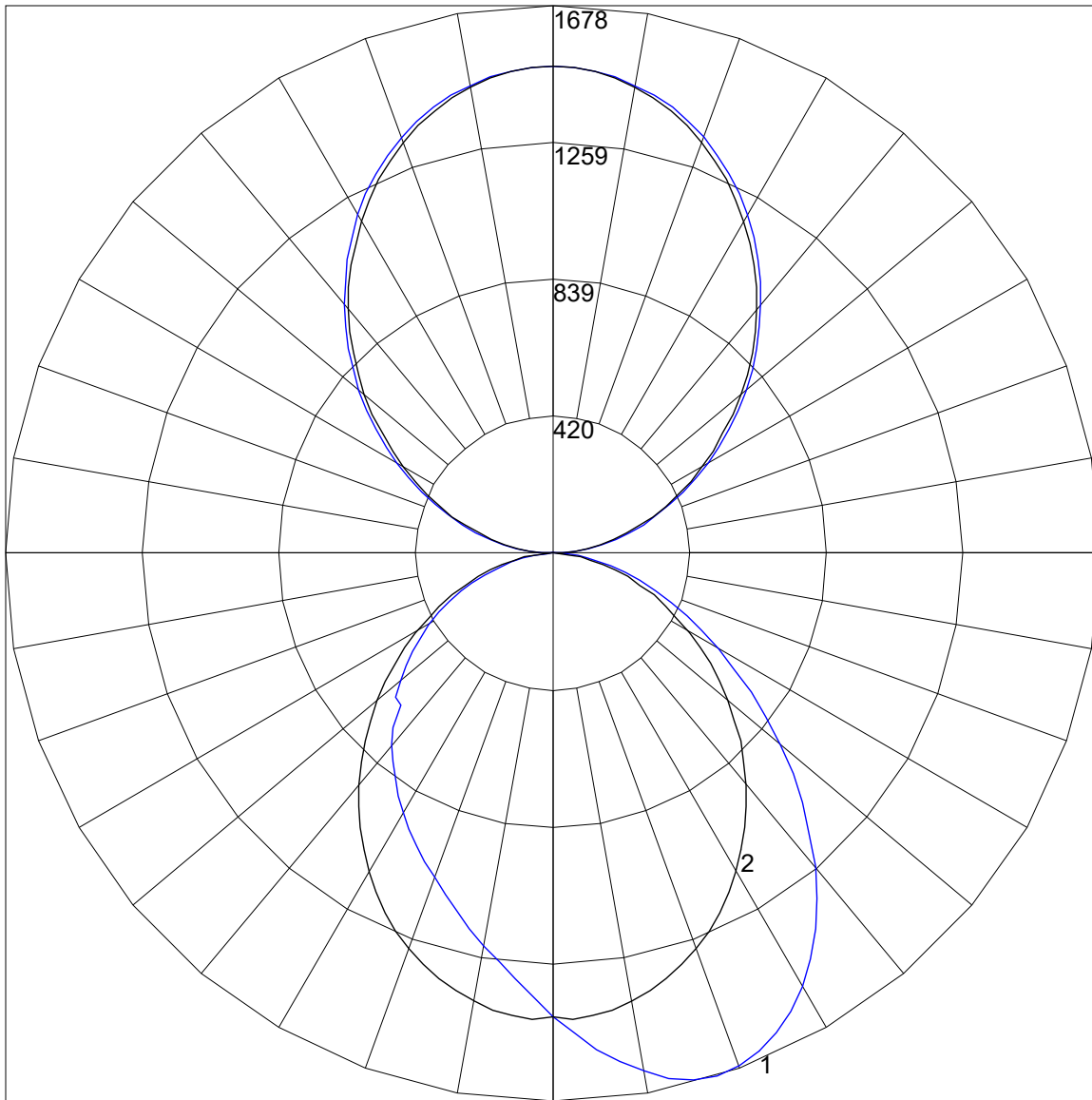
Effective Floor Cavity Reflectance 0.20

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	71	82	76	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	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	46	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DAO-ITL85132-KPL2008-3.900.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)