

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 : HP3-P-ID-4FT-B-V-835-WSO-KPL2008-102.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.008 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-B-V-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.3 WATTS
[ABSOLUTE LUMENS]7495
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7497
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	58.3
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)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13724	13097	12460
55	12485	11763	11160
65	11275	10596	10023
75	10061	9374	9045
85	9043	8487	7952

CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0.0	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246
2.5	1573.405	1597.036	1577.654	1578.530	1579.910	1577.599	1582.220	1577.599	1579.910	1578.530
5.0	1565.816	1588.998	1569.561	1569.835	1569.945	1567.689	1572.091	1567.689	1569.945	1569.835
7.5	1554.252	1575.562	1555.786	1554.526	1554.198	1551.164	1555.019	1551.164	1554.198	1554.526
10.0	1543.784	1565.422	1540.542	1534.761	1532.384	1527.325	1531.344	1527.325	1532.384	1534.761
12.5	1514.163	1537.235	1514.929	1514.765	1504.088	1498.744	1500.726	1498.744	1504.088	1514.765
15.0	1485.637	1506.015	1482.494	1482.220	1473.470	1464.327	1465.816	1464.327	1473.470	1482.220
17.5	1453.037	1471.598	1447.255	1443.017	1438.998	1423.963	1425.726	1423.963	1438.998	1443.017
20.0	1417.250	1434.432	1409.925	1399.959	1395.393	1381.847	1381.672	1381.847	1395.393	1399.959
22.5	1377.927	1390.542	1367.360	1353.540	1344.451	1334.870	1333.325	1334.870	1344.451	1353.540
25.0	1340.378	1349.467	1320.941	1306.070	1292.031	1282.176	1282.230	1282.176	1292.031	1306.070
27.5	1285.099	1298.251	1273.087	1257.340	1240.772	1229.208	1224.850	1229.208	1240.772	1257.340
30.0	1235.975	1239.666	1219.517	1203.759	1184.541	1172.375	1168.794	1172.375	1184.541	1203.759
32.5	1182.570	1192.699	1162.738	1150.134	1128.211	1114.939	1109.770	1114.939	1128.211	1150.134
35.0	1130.467	1137.355	1110.099	1090.331	1079.869	1055.200	1053.492	1055.200	1079.869	1090.331
37.5	1075.849	1078.107	1052.722	1032.128	1010.982	996.666	992.591	996.666	1010.982	1032.128
40.0	1014.507	1018.692	993.638	972.107	951.899	938.133	932.020	938.133	951.899	972.107
42.5	956.799	957.956	934.002	914.785	893.585	879.819	873.652	879.819	893.585	914.785
45.0	898.541	900.414	875.194	857.518	833.565	820.130	815.834	820.130	833.565	857.518
47.5	838.631	838.631	817.046	797.828	775.142	761.486	757.356	761.486	775.142	797.828
50.0	778.391	780.373	756.420	738.414	716.168	704.935	699.979	704.935	716.168	738.414
52.5	718.701	720.848	698.162	681.092	661.599	648.879	645.795	648.879	661.599	681.092
55.0	663.086	662.039	642.877	624.762	608.187	598.936	592.714	598.936	608.187	624.762
57.5	606.810	602.350	585.005	570.357	554.333	543.320	539.522	543.320	554.333	570.357
60.0	549.544	545.744	531.758	514.963	501.086	492.055	487.871	492.055	501.086	514.963
62.5	495.359	491.835	478.290	462.233	446.456	440.676	438.346	440.676	446.456	462.233
65.0	441.220	437.459	426.816	414.635	400.191	395.429	392.224	395.429	400.191	414.635
67.5	387.852	385.649	375.892	363.414	353.117	348.492	346.333	348.492	353.117	363.414
70.0	339.021	335.486	324.599	316.698	308.967	303.107	301.841	303.107	308.967	316.698
72.5	287.580	278.967	278.108	269.645	262.415	258.539	257.779	258.539	262.415	269.645
75.0	241.116	238.847	232.675	224.652	221.716	216.392	216.778	216.392	221.716	224.652
77.5	197.901	194.537	188.728	182.846	179.692	175.843	176.118	175.843	179.692	182.846
80.0	154.313	151.702	146.867	144.252	140.316	138.305	137.143	138.305	140.316	144.252
82.5	112.639	111.384	109.441	106.797	105.157	103.797	107.354	103.797	105.157	106.797
85.0	72.982	71.689	69.133	68.494	67.322	65.967	64.172	65.967	67.322	68.494
87.5	38.137	35.406	33.826	32.631	30.902	31.046	31.397	31.046	30.902	32.631
90.0	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919	2.759	2.292
92.5	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236	41.629	38.706
95.0	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531	73.200	71.387
97.5	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934	102.124	100.735
100.0	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548	130.623	180.225
102.5	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322	235.295	296.249
105.0	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802	406.821	401.142
107.5	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183	572.043	457.191
110.0	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573	653.993	533.938
112.5	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696	720.986	643.969
115.0	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269	838.096	727.488
117.5	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709	981.522	760.085
120.0	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059	1075.030	780.136
122.5	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006	1096.151	797.924
125.0	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036	1093.008	813.803
127.5	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151	1085.438	827.992
130.0	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577	1076.787	841.307
132.5	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245	1068.715	850.452

CANDELA TABULATION - (Cont.)

135.0	510.676	557.199	672.473	856.341	1060.300	1218.121	1277.687	1218.121	1060.300	856.341
137.5	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492	1047.868	858.449
140.0	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918	1032.331	857.376
142.5	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198	1013.736	853.054
145.0	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178	991.094	846.663
147.5	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653	966.450	837.784
150.0	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505	939.745	828.297
152.5	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063	912.278	817.204
155.0	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153	885.459	806.567
157.5	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060	859.902	794.858
160.0	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141	837.860	783.917
162.5	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760	815.180	773.090
165.0	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408	794.363	762.568
167.5	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661	775.616	753.428
170.0	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962	759.931	746.044
172.5	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209	747.345	739.655
175.0	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616	739.731	735.944
177.5	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418	734.834	733.533
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

Vert.
Angles

Horizontal Angles

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0.0	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246	1584.246
2.5	1577.654	1597.036	1573.405	1597.036	1577.654	1578.530	1579.910	1577.599	1582.220	1577.599
5.0	1569.561	1588.998	1565.816	1588.998	1569.561	1569.835	1569.945	1567.689	1572.091	1567.689
7.5	1555.786	1575.562	1554.252	1575.562	1555.786	1554.526	1554.198	1551.164	1555.019	1551.164
10.0	1540.542	1565.422	1543.784	1565.422	1540.542	1534.761	1532.384	1527.325	1531.344	1527.325
12.5	1514.929	1537.235	1514.163	1537.235	1514.929	1514.765	1504.088	1498.744	1500.726	1498.744
15.0	1482.494	1506.015	1485.637	1506.015	1482.494	1482.220	1473.470	1464.327	1465.816	1464.327
17.5	1447.255	1471.598	1453.037	1471.598	1447.255	1443.017	1438.998	1423.963	1425.726	1423.963
20.0	1409.925	1434.432	1417.250	1434.432	1409.925	1399.959	1395.393	1381.847	1381.672	1381.847
22.5	1367.360	1390.542	1377.927	1390.542	1367.360	1353.540	1344.451	1334.870	1333.325	1334.870
25.0	1320.941	1349.467	1340.378	1349.467	1320.941	1306.070	1292.031	1282.176	1282.230	1282.176
27.5	1273.087	1298.251	1285.099	1298.251	1273.087	1257.340	1240.772	1229.208	1224.850	1229.208
30.0	1219.517	1239.666	1235.975	1239.666	1219.517	1203.759	1184.541	1172.375	1168.794	1172.375
32.5	1162.738	1192.699	1182.570	1192.699	1162.738	1150.134	1128.211	1114.939	1109.770	1114.939
35.0	1110.099	1137.355	1130.467	1137.355	1110.099	1090.331	1079.869	1055.200	1053.492	1055.200
37.5	1052.722	1078.107	1075.849	1078.107	1052.722	1032.128	1010.982	996.666	992.591	996.666
40.0	993.638	1018.692	1014.507	1018.692	993.638	972.107	951.899	938.133	932.020	938.133
42.5	934.002	957.956	956.799	957.956	934.002	914.785	893.585	879.819	873.652	879.819
45.0	875.194	900.414	898.541	900.414	875.194	857.518	833.565	820.130	815.834	820.130
47.5	817.046	838.631	838.631	838.631	817.046	797.828	775.142	761.486	757.356	761.486
50.0	756.420	780.373	778.391	780.373	756.420	738.414	716.168	704.935	699.979	704.935
52.5	698.162	720.848	718.701	720.848	698.162	681.092	661.599	648.879	645.795	648.879
55.0	642.877	662.039	663.086	662.039	642.877	624.762	608.187	598.936	592.714	598.936
57.5	585.005	602.350	606.810	602.350	585.005	570.357	554.333	543.320	539.522	543.320
60.0	531.758	545.744	549.544	545.744	531.758	514.963	501.086	492.055	487.871	492.055
62.5	478.290	491.835	495.359	491.835	478.290	462.233	446.456	440.676	438.346	440.676
65.0	426.816	437.459	441.220	437.459	426.816	414.635	400.191	395.429	392.224	395.429
67.5	375.892	385.649	387.852	385.649	375.892	363.414	353.117	348.492	346.333	348.492
70.0	324.599	335.486	339.021	335.486	324.599	316.698	308.967	303.107	301.841	303.107
72.5	278.108	278.967	287.580	278.967	278.108	269.645	262.415	258.539	257.779	258.539
75.0	232.675	238.847	241.116	238.847	232.675	224.652	221.716	216.392	216.778	216.392
77.5	188.728	194.537	197.901	194.537	188.728	182.846	179.692	175.843	176.118	175.843
80.0	146.867	151.702	154.313	151.702	146.867	144.252	140.316	138.305	137.143	138.305

CANDELA TABULATION - (Cont.)

82.5	109.441	111.384	112.639	111.384	109.441	106.797	105.157	103.797	107.354	103.797
85.0	69.133	71.689	72.982	71.689	69.133	68.494	67.322	65.967	64.172	65.967
87.5	33.826	35.406	38.137	35.406	33.826	32.631	30.902	31.046	31.397	31.046
90.0	2.422	2.131	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919
92.5	35.668	34.302	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236
95.0	68.444	72.806	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531
97.5	113.284	110.571	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934
100.0	187.537	149.293	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548
102.5	239.755	186.817	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322
105.0	293.088	224.161	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802
107.5	349.746	263.024	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183
110.0	402.443	299.523	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573
112.5	440.204	332.850	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696
115.0	477.545	366.594	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269
117.5	512.858	401.181	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709
120.0	546.028	430.793	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059
122.5	574.071	455.546	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006
125.0	600.087	479.381	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036
127.5	622.354	500.002	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151
130.0	641.062	519.820	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577
132.5	657.934	538.758	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245
135.0	672.473	557.199	510.676	557.199	672.473	856.341	1060.300	1218.113	1277.687	1218.121
137.5	683.682	574.378	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492
140.0	694.280	592.053	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918
142.5	703.347	608.580	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198
145.0	710.693	624.611	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178
147.5	717.006	640.259	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653
150.0	721.788	654.414	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505
152.5	725.958	667.958	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063
155.0	728.789	680.430	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153
157.5	730.664	692.252	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060
160.0	731.123	702.505	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141
162.5	731.773	711.611	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760
165.0	731.812	719.607	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408
167.5	731.926	726.340	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661
170.0	732.232	732.385	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962
172.5	732.424	736.785	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209
175.0	732.692	739.655	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616
177.5	732.692	741.491	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1584.246	1584.246	1584.246	1584.246	1584.246
2.5	1579.910	1578.530	1577.654	1597.036	1573.405
5.0	1569.945	1569.835	1569.561	1588.998	1565.816
7.5	1554.198	1554.526	1555.786	1575.562	1554.252
10.0	1532.384	1534.761	1540.542	1565.422	1543.784
12.5	1504.088	1514.765	1514.929	1537.235	1514.163
15.0	1473.470	1482.220	1482.494	1506.015	1485.637
17.5	1438.998	1443.017	1447.255	1471.598	1453.037
20.0	1395.393	1399.959	1409.925	1434.432	1417.250
22.5	1344.451	1353.540	1367.360	1390.542	1377.927
25.0	1292.031	1306.070	1320.941	1349.467	1340.378
27.5	1240.772	1257.340	1273.087	1298.251	1285.099

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-WSO-KPL2008-102.008.IES****CANDELA TABULATION - (Cont.)**

30.0	1184.541	1203.759	1219.517	1239.666	1235.975
32.5	1128.211	1150.134	1162.738	1192.699	1182.570
35.0	1079.869	1090.331	1110.099	1137.355	1130.467
37.5	1010.982	1032.128	1052.722	1078.107	1075.849
40.0	951.899	972.107	993.638	1018.692	1014.507
42.5	893.585	914.785	934.002	957.956	956.799
45.0	833.565	857.518	875.194	900.414	898.541
47.5	775.142	797.828	817.046	838.631	838.631
50.0	716.168	738.414	756.420	780.373	778.391
52.5	661.599	681.092	698.162	720.848	718.701
55.0	608.187	624.762	642.877	662.039	663.086
57.5	554.333	570.357	585.005	602.350	606.810
60.0	501.086	514.963	531.758	545.744	549.544
62.5	446.456	462.233	478.290	491.835	495.359
65.0	400.191	414.635	426.816	437.459	441.220
67.5	353.117	363.414	375.892	385.649	387.852
70.0	308.967	316.698	324.599	335.486	339.021
72.5	262.415	269.645	278.108	278.967	287.580
75.0	221.716	224.652	232.675	238.847	241.116
77.5	179.692	182.846	188.728	194.537	197.901
80.0	140.316	144.252	146.867	151.702	154.313
82.5	105.157	106.797	109.441	111.384	112.639
85.0	67.322	68.494	69.133	71.689	72.982
87.5	30.902	32.631	33.826	35.406	38.137
90.0	2.759	2.292	2.422	2.131	2.188
92.5	41.629	38.706	35.668	34.302	28.541
95.0	73.200	71.387	68.444	72.806	57.059
97.5	102.124	100.735	113.284	110.571	84.299
100.0	130.623	180.225	187.537	149.293	114.309
102.5	235.295	296.249	239.755	186.817	144.970
105.0	406.821	401.142	293.088	224.161	176.464
107.5	572.043	457.191	349.746	263.024	208.610
110.0	653.993	533.938	402.443	299.523	242.713
112.5	720.986	643.969	440.204	332.850	276.832
115.0	838.096	727.488	477.545	366.594	311.602
117.5	981.522	760.085	512.858	401.181	348.001
120.0	1075.030	780.136	546.028	430.793	376.618
122.5	1096.151	797.924	574.071	455.546	403.246
125.0	1093.008	813.803	600.087	479.381	428.191
127.5	1085.438	827.992	622.354	500.002	450.610
130.0	1076.787	841.307	641.062	519.820	471.270
132.5	1068.715	850.452	657.934	538.758	490.935
135.0	1060.300	856.341	672.473	557.199	510.676
137.5	1047.868	858.449	683.682	574.378	529.117
140.0	1032.331	857.376	694.280	592.053	548.629
142.5	1013.736	853.054	703.347	608.580	567.835
145.0	991.094	846.663	710.693	624.611	587.270
147.5	966.450	837.784	717.006	640.259	604.104
150.0	939.745	828.297	721.788	654.414	621.703
152.5	912.278	817.204	725.958	667.958	637.924
155.0	885.459	806.567	728.789	680.430	652.692
157.5	859.902	794.858	730.664	692.252	667.767
160.0	837.860	783.917	731.123	702.505	680.774
162.5	815.180	773.090	731.773	711.611	691.257
165.0	794.363	762.568	731.812	719.607	701.893
167.5	775.616	753.428	731.926	726.340	710.923

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-WSO-KPL2008-102.008.IES****CANDELA TABULATION - (Cont.)**

170.0	759.931	746.044	732.232	732.385	718.268
172.5	747.345	739.655	732.424	736.785	724.007
175.0	739.731	735.944	732.692	739.655	727.603
177.5	734.834	733.533	732.692	741.491	729.593
180.0	733.992	733.992	733.992	733.992	733.992

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-WSO-KPL2008-102.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	565.82	N.A.	7.50
0-30	1168.39	N.A.	15.60
0-40	1851.36	N.A.	24.70
0-60	3073.52	N.A.	41.00
0-80	3725.86	N.A.	49.70
0-90	3802.83	N.A.	50.70
10-90	3653.8	N.A.	48.70
20-40	1285.54	N.A.	17.10
20-50	1946.78	N.A.	26.00
40-70	1633.59	N.A.	21.80
60-80	652.34	N.A.	8.70
70-80	240.91	N.A.	3.20
80-90	76.97	N.A.	1.00
90-110	413.60	N.A.	5.50
90-120	1050.73	N.A.	14.00
90-130	1815.98	N.A.	24.20
90-150	3030.55	N.A.	40.40
90-180	3693.87	N.A.	49.30
110-180	3280.27	N.A.	43.80
0-180	7496.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.03
10-20	416.79
20-30	602.57
30-40	682.96
40-50	661.25
50-60	560.92
60-70	411.43
70-80	240.91
80-90	76.97
90-100	78.64
100-110	334.96
110-120	637.13
120-130	765.24
130-140	677.67
140-150	536.91
150-160	375.19
160-170	217.45
170-180	70.68

IES INDOOR REPORT

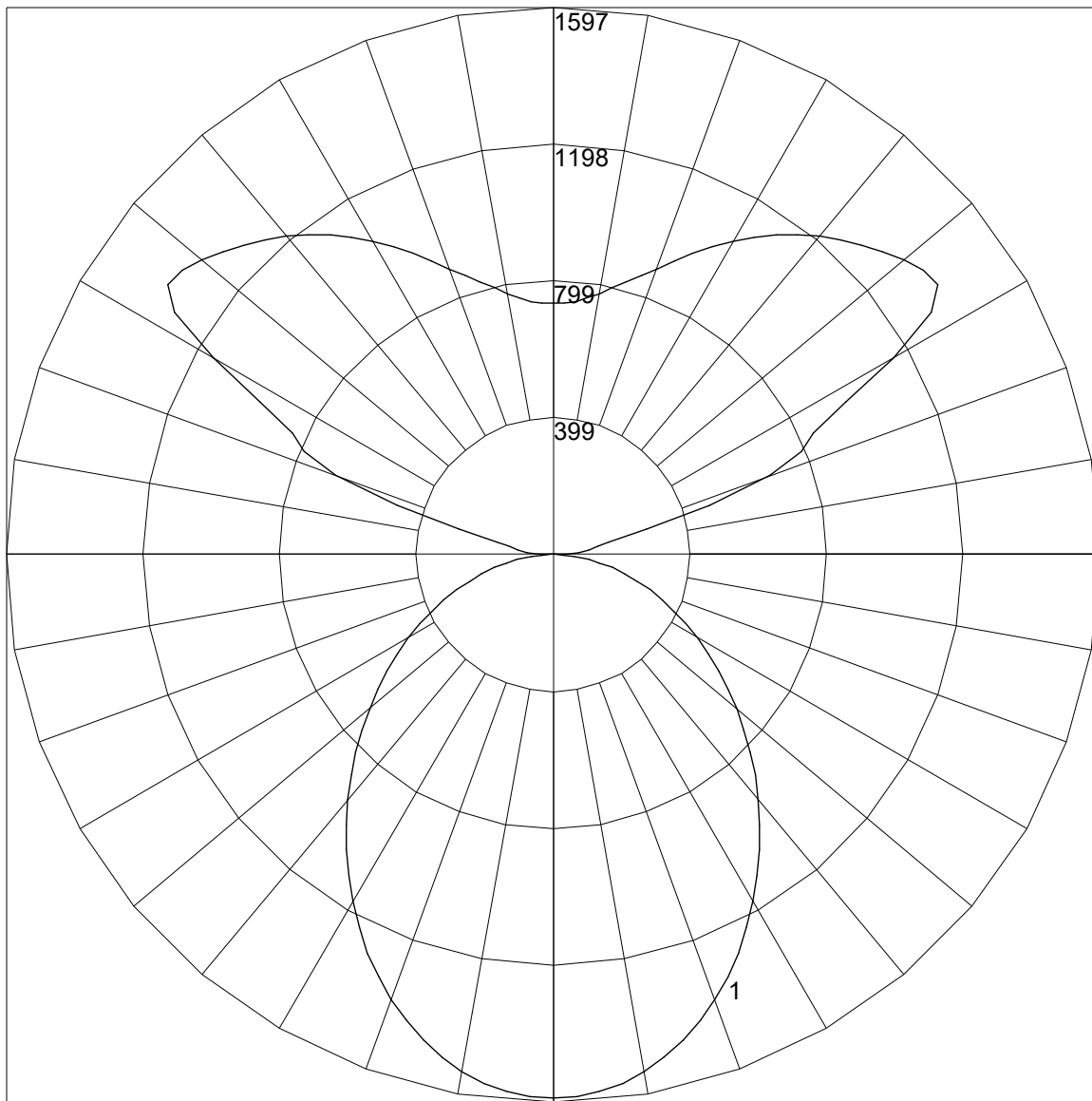
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-WSO-KPL2008-102.008.IES

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	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	40	45	40	36	38	34	31	32	29	26	23
6	63	51	43	37	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

POLAR GRAPH



Maximum Candela = 1597.036 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)