

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-S-V-835-WSO-KPL2008-102.012.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST] KPL2008-102.012 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-S-V-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.5 WATTS
[ABSOLUTELUMENS]6754
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6755
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	53.5
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	1.749	1.703	1.936	1.832	2.205	2.333	1.774	2.333	2.205	1.832
92.5	22.811	27.417	28.508	30.936	33.273	32.159	35.838	32.159	33.273	30.936
95.0	45.605	58.191	54.705	57.056	58.506	57.971	59.066	57.971	58.506	57.056
97.5	67.377	88.375	90.543	80.514	81.623	83.070	83.583	83.070	81.623	80.514
100.0	91.363	119.324	149.890	144.046	104.401	103.542	106.218	103.542	104.401	144.046
102.5	115.868	149.315	191.626	236.779	188.062	148.120	133.696	148.120	188.062	236.779
105.0	141.040	179.163	234.253	320.616	325.155	257.203	226.312	257.203	325.155	320.616
107.5	166.733	210.224	279.537	365.413	457.210	402.173	382.642	402.173	457.210	365.413
110.0	193.990	239.396	321.656	426.754	522.710	545.552	540.567	545.552	522.710	426.754
112.5	221.260	266.033	351.837	514.698	576.254	613.587	627.902	613.587	576.254	514.698
115.0	249.050	293.003	381.681	581.451	669.855	672.391	670.834	672.391	669.855	581.451
117.5	278.143	320.647	409.906	607.504	784.490	785.438	770.886	785.438	784.490	607.504
120.0	301.015	344.314	436.417	623.530	859.226	923.990	916.072	923.990	859.226	623.530
122.5	322.298	364.099	458.831	637.747	876.107	1019.858	1048.907	1019.858	876.107	637.747
125.0	342.235	383.149	479.625	650.438	873.596	1043.860	1097.769	1043.860	873.596	650.438
127.5	360.154	399.631	497.421	661.780	867.545	1032.762	1090.982	1032.762	867.545	661.780
130.0	376.666	415.470	512.374	672.422	860.631	1014.720	1069.820	1014.720	860.631	672.422
132.5	392.384	430.607	525.859	679.731	854.179	995.272	1046.092	995.272	854.179	679.731

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CANDELA TABULATION - (Cont.)

135.0	408.162	445.346	537.479	684.438	847.453	973.593	1021.202	973.593	847.453	684.438
137.5	422.901	459.076	546.439	686.122	837.517	952.309	995.515	952.309	837.517	686.122
140.0	438.496	473.203	554.909	685.265	825.099	928.672	969.525	928.672	825.099	685.265
142.5	453.847	486.413	562.156	681.811	810.237	903.320	939.983	903.320	810.237	681.811
145.0	469.380	499.225	568.027	676.703	792.140	876.928	908.854	876.928	792.140	676.703
147.5	482.835	511.732	573.073	669.606	772.443	846.936	876.016	846.936	772.443	669.606
150.0	496.902	523.046	576.895	662.023	751.099	816.446	841.397	816.446	751.099	662.023
152.5	509.866	533.871	580.228	653.157	729.146	784.922	807.641	784.922	729.146	653.157
155.0	521.670	543.840	582.491	644.655	707.710	753.823	773.574	753.823	707.710	644.655
157.5	533.718	553.288	583.989	635.297	687.284	720.979	740.615	720.979	687.284	635.297
160.0	544.114	561.483	584.356	626.552	669.667	697.865	709.851	697.865	669.667	626.552
162.5	552.493	568.761	584.876	617.899	651.539	673.583	682.881	673.583	651.539	617.899
165.0	560.994	575.152	584.906	609.488	634.901	651.722	658.478	651.722	634.901	609.488
167.5	568.211	580.533	584.998	602.183	619.918	631.143	637.686	631.143	619.918	602.183
170.0	574.081	585.365	585.243	596.282	607.381	613.800	617.686	613.800	607.381	596.282
172.5	578.668	588.882	585.396	591.175	597.321	600.410	603.009	600.410	597.321	591.175
175.0	581.543	591.175	585.610	588.209	591.236	591.144	592.857	591.144	591.236	588.209
177.5	583.133	592.643	585.610	586.282	587.322	586.191	586.925	586.191	587.322	586.282
180.0	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649

**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

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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	1.936	1.703	1.749	1.703	1.936	1.832	2.205	2.333	1.774	2.333
92.5	28.508	27.417	22.811	27.417	28.508	30.936	33.273	32.159	35.838	32.159
95.0	54.705	58.191	45.605	58.191	54.705	57.056	58.506	57.971	59.066	57.971
97.5	90.543	88.375	67.377	88.375	90.543	80.514	81.623	83.070	83.583	83.070
100.0	149.890	119.324	91.363	119.324	149.890	144.046	104.401	103.542	106.218	103.542
102.5	191.626	149.315	115.868	149.315	191.626	236.779	188.062	148.120	133.696	148.120
105.0	234.253	179.163	141.040	179.163	234.253	320.616	325.155	257.203	226.312	257.203
107.5	279.537	210.224	166.733	210.224	279.537	365.413	457.210	402.173	382.642	402.173
110.0	321.656	239.396	193.990	239.396	321.656	426.754	522.710	545.552	540.567	545.552
112.5	351.837	266.033	221.260	266.033	351.837	514.698	576.254	613.587	627.902	613.587
115.0	381.681	293.003	249.050	293.003	381.681	581.451	669.855	672.391	670.834	672.391
117.5	409.906	320.647	278.143	320.647	409.906	607.504	784.490	785.438	770.886	785.438
120.0	436.417	344.314	301.015	344.314	436.417	623.530	859.226	923.990	916.072	923.990
122.5	458.831	364.099	322.298	364.099	458.831	637.747	876.107	1019.858	1048.907	1019.858
125.0	479.625	383.149	342.235	383.149	479.625	650.438	873.596	1043.860	1097.769	1043.860
127.5	497.421	399.631	360.154	399.631	497.421	661.780	867.545	1032.762	1090.982	1032.762
130.0	512.374	415.470	376.666	415.470	512.374	672.422	860.631	1014.720	1069.820	1014.720
132.5	525.859	430.607	392.384	430.607	525.859	679.731	854.179	995.272	1046.092	995.272
135.0	537.479	445.346	408.162	445.346	537.479	684.438	847.453	973.587	1021.202	973.593
137.5	546.439	459.076	422.901	459.076	546.439	686.122	837.517	952.309	995.515	952.309
140.0	554.909	473.203	438.496	473.203	554.909	685.265	825.099	928.672	969.525	928.672
142.5	562.156	486.413	453.847	486.413	562.156	681.811	810.237	903.320	939.983	903.320
145.0	568.027	499.225	469.380	499.225	568.027	676.703	792.140	876.928	908.854	876.928
147.5	573.073	511.732	482.835	511.732	573.073	669.606	772.443	846.936	876.016	846.936
150.0	576.895	523.046	496.902	523.046	576.895	662.023	751.099	816.446	841.397	816.446
152.5	580.228	533.871	509.866	533.871	580.228	653.157	729.146	784.922	807.641	784.922
155.0	582.491	543.840	521.670	543.840	582.491	644.655	707.710	753.823	773.574	753.823
157.5	583.989	553.288	533.718	553.288	583.989	635.297	687.284	720.979	740.615	720.979
160.0	584.356	561.483	544.114	561.483	584.356	626.552	669.667	697.865	709.851	697.865
162.5	584.876	568.761	552.493	568.761	584.876	617.899	651.539	673.583	682.881	673.583
165.0	584.906	575.152	560.994	575.152	584.906	609.488	634.901	651.722	658.478	651.722
167.5	584.998	580.533	568.211	580.533	584.998	602.183	619.918	631.143	637.686	631.143
170.0	585.243	585.365	574.081	585.365	585.243	596.282	607.381	613.800	617.686	613.800
172.5	585.396	588.882	578.668	588.882	585.396	591.175	597.321	600.410	603.009	600.410
175.0	585.610	591.175	581.543	591.175	585.610	588.209	591.236	591.144	592.857	591.144
177.5	585.610	592.643	583.133	592.643	585.610	586.282	587.322	586.191	586.925	586.191
180.0	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649

**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-S-V-835-WSO-KPL2008-102.012.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	2.205	1.832	1.936	1.703	1.749
92.5	33.273	30.936	28.508	27.417	22.811
95.0	58.506	57.056	54.705	58.191	45.605
97.5	81.623	80.514	90.543	88.375	67.377
100.0	104.401	144.046	149.890	119.324	91.363
102.5	188.062	236.779	191.626	149.315	115.868
105.0	325.155	320.616	234.253	179.163	141.040
107.5	457.210	365.413	279.537	210.224	166.733
110.0	522.710	426.754	321.656	239.396	193.990
112.5	576.254	514.698	351.837	266.033	221.260
115.0	669.855	581.451	381.681	293.003	249.050
117.5	784.490	607.504	409.906	320.647	278.143
120.0	859.226	623.530	436.417	344.314	301.015
122.5	876.107	637.747	458.831	364.099	322.298
125.0	873.596	650.438	479.625	383.149	342.235
127.5	867.545	661.780	497.421	399.631	360.154
130.0	860.631	672.422	512.374	415.470	376.666
132.5	854.179	679.731	525.859	430.607	392.384
135.0	847.453	684.438	537.479	445.346	408.162
137.5	837.517	686.122	546.439	459.076	422.901
140.0	825.099	685.265	554.909	473.203	438.496
142.5	810.237	681.811	562.156	486.413	453.847
145.0	792.140	676.703	568.027	499.225	469.380
147.5	772.443	669.606	573.073	511.732	482.835
150.0	751.099	662.023	576.895	523.046	496.902
152.5	729.146	653.157	580.228	533.871	509.866
155.0	707.710	644.655	582.491	543.840	521.670
157.5	687.284	635.297	583.989	553.288	533.718
160.0	669.667	626.552	584.356	561.483	544.114
162.5	651.539	617.899	584.876	568.761	552.493
165.0	634.901	609.488	584.906	575.152	560.994
167.5	619.918	602.183	584.998	580.533	568.211

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-WSO-KPL2008-102.012.IES****CANDELA TABULATION - (Cont.)**

170.0	607.381	596.282	585.243	585.365	574.081
172.5	597.321	591.175	585.396	588.882	578.668
175.0	591.236	588.209	585.610	591.175	581.543
177.5	587.322	586.282	585.610	592.643	583.133
180.0	586.649	586.649	586.649	586.649	586.649

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-WSO-KPL2008-102.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	565.82	N.A.	8.40
0-30	1168.39	N.A.	17.30
0-40	1851.36	N.A.	27.40
0-60	3073.52	N.A.	45.50
0-80	3725.86	N.A.	55.20
0-90	3802.76	N.A.	56.30
10-90	3653.73	N.A.	54.10
20-40	1285.54	N.A.	19.00
20-50	1946.78	N.A.	28.80
40-70	1633.59	N.A.	24.20
60-80	652.34	N.A.	9.70
70-80	240.91	N.A.	3.60
80-90	76.90	N.A.	1.10
90-110	330.57	N.A.	4.90
90-120	839.81	N.A.	12.40
90-130	1451.43	N.A.	21.50
90-150	2422.19	N.A.	35.90
90-180	2952.36	N.A.	43.70
110-180	2621.78	N.A.	38.80
0-180	6755.12	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	76.90
90-100	62.85
100-110	267.72
110-120	509.23
120-130	611.63
130-140	541.63
140-150	429.13
150-160	299.87
160-170	173.80
170-180	56.49

IES INDOOR REPORT

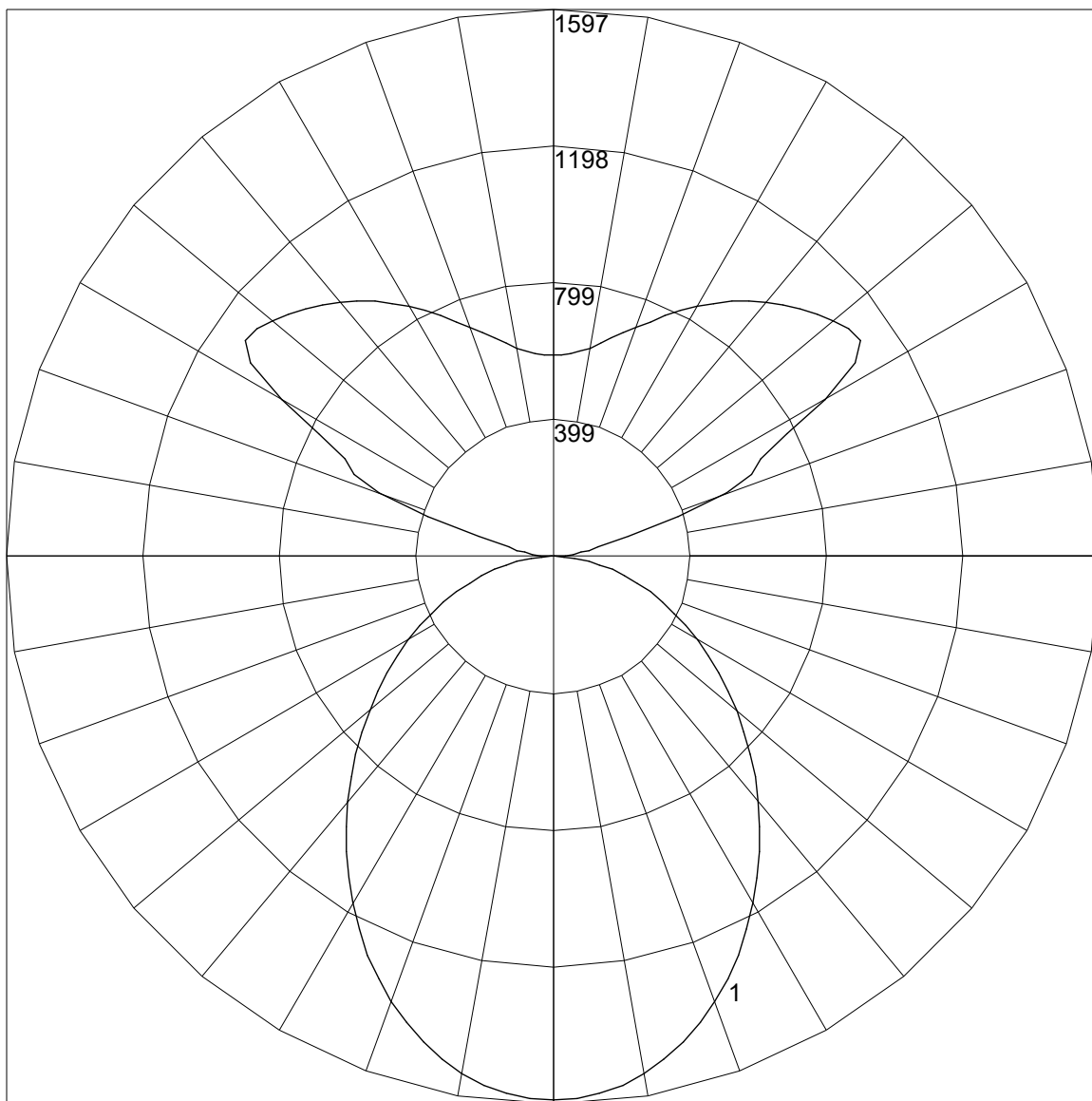
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-WSO-KPL2008-102.012.IES

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	39	35	33	29
5	70	58	50	44	64	54	47	41	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	27	48	37	30	25	33	27	23	28	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

POLAR GRAPH



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