

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-H-V-835-WSO-KPL2008-102.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.004 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-H-V-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.3 WATTS
[ABSOLUTE LUMENS]7959
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	61.3
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	1409.924	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	1333.326	1334.870	1344.451	1353.540
25.0	1340.378	1349.467	1320.940	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	1052.721	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	2.463	2.399	2.726	2.580	3.105	3.286	2.498	3.286	3.105	2.580
92.5	32.126	38.612	40.149	43.569	46.860	45.291	50.473	45.291	46.860	43.569
95.0	64.228	81.954	77.044	80.356	82.397	81.644	83.185	81.644	82.397	80.356
97.5	94.890	124.463	127.517	113.392	114.954	116.992	117.715	116.992	114.954	113.392
100.0	128.671	168.050	211.098	202.868	147.034	145.824	149.592	145.824	147.034	202.868
102.5	163.183	210.288	269.878	333.469	264.857	208.605	188.291	208.605	264.857	333.469
105.0	198.635	252.324	329.911	451.540	457.933	362.233	318.728	362.233	457.933	451.540
107.5	234.819	296.070	393.687	514.631	643.914	566.402	538.896	566.402	643.914	514.631
110.0	273.207	337.155	453.005	601.021	736.160	768.330	761.310	768.330	736.160	601.021
112.5	311.612	374.669	495.510	724.876	811.569	864.147	884.308	864.147	811.569	724.876
115.0	350.750	412.652	537.542	818.889	943.393	946.964	944.772	946.964	943.393	818.889
117.5	391.723	451.584	577.292	855.581	1104.839	1106.175	1085.681	1106.175	1104.839	855.581
120.0	423.936	484.916	614.630	878.150	1210.094	1301.304	1290.154	1301.304	1210.094	878.150
122.5	453.909	512.780	646.196	898.173	1233.869	1436.321	1477.232	1436.321	1233.869	898.173
125.0	481.988	539.610	675.481	916.047	1230.332	1470.124	1546.046	1470.124	1230.332	916.047
127.5	507.224	562.822	700.545	932.020	1221.810	1454.494	1536.489	1454.494	1221.810	932.020
130.0	530.479	585.129	721.604	947.007	1212.073	1429.084	1506.685	1429.084	1212.073	947.007
132.5	552.616	606.447	740.595	957.302	1202.986	1401.695	1473.267	1401.695	1202.986	957.302

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-WSO-KPL2008-102.004.IES

CANDELA TABULATION - (Cont.)

135.0	574.837	627.205	756.961	963.930	1193.514	1371.163	1438.213	1371.163	1193.514	963.930
137.5	595.595	646.541	769.579	966.303	1179.520	1341.188	1402.038	1341.188	1179.520	966.303
140.0	617.558	666.437	781.508	965.095	1162.031	1307.899	1365.434	1307.899	1162.031	965.095
142.5	639.177	685.041	791.714	960.230	1141.100	1272.194	1323.828	1272.194	1141.100	960.230
145.0	661.053	703.085	799.983	953.037	1115.613	1235.025	1279.988	1235.025	1115.613	953.037
147.5	680.003	720.700	807.089	943.042	1087.873	1192.786	1233.740	1192.786	1087.873	943.042
150.0	699.813	736.633	812.472	932.362	1057.812	1149.844	1184.984	1149.844	1057.812	932.362
152.5	718.072	751.879	817.166	919.875	1026.895	1105.447	1137.443	1105.447	1026.895	919.875
155.0	734.695	765.918	820.353	907.903	996.706	1061.649	1089.466	1061.649	996.706	907.903
157.5	751.664	779.225	822.463	894.722	967.938	1015.393	1043.047	1015.393	967.938	894.722
160.0	766.305	790.767	822.980	882.407	943.128	982.840	999.720	982.840	943.128	882.407
162.5	778.105	801.017	823.712	870.220	917.597	948.643	961.738	948.643	917.597	870.220
165.0	790.077	810.017	823.755	858.375	894.165	917.854	927.369	917.854	894.165	858.375
167.5	800.241	817.596	823.884	848.087	873.063	888.873	898.088	888.873	873.063	848.087
170.0	808.509	824.401	824.228	839.775	855.408	864.447	869.920	864.447	855.408	839.775
172.5	814.970	829.353	824.444	832.584	841.240	845.589	849.250	845.589	841.240	832.584
175.0	819.018	832.584	824.746	828.406	832.669	832.540	834.952	832.540	832.669	828.406
177.5	821.257	834.650	824.746	825.693	827.157	825.564	826.597	825.564	827.157	825.693
180.0	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209

**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	1409.924	1434.432	1417.250	1434.432	1409.924	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	1333.326	1334.870
25.0	1320.940	1349.467	1340.378	1349.467	1320.940	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	1052.721	1078.107	1075.849	1078.107	1052.721	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-WSO-KPL2008-102.004.IES

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	2.726	2.399	2.463	2.399	2.726	2.580	3.105	3.286	2.498	3.286
92.5	40.149	38.612	32.126	38.612	40.149	43.569	46.860	45.291	50.473	45.291
95.0	77.044	81.954	64.228	81.954	77.044	80.356	82.397	81.644	83.185	81.644
97.5	127.517	124.463	94.890	124.463	127.517	113.392	114.954	116.992	117.715	116.992
100.0	211.098	168.050	128.671	168.050	211.098	202.868	147.034	145.824	149.592	145.824
102.5	269.878	210.288	163.183	210.288	269.878	333.469	264.857	208.605	188.291	208.605
105.0	329.911	252.324	198.635	252.324	329.911	451.540	457.933	362.233	318.728	362.233
107.5	393.687	296.070	234.819	296.070	393.687	514.631	643.914	566.402	538.896	566.402
110.0	453.005	337.155	273.207	337.155	453.005	601.021	736.160	768.330	761.310	768.330
112.5	495.510	374.669	311.612	374.669	495.510	724.876	811.569	864.147	884.308	864.147
115.0	537.542	412.652	350.750	412.652	537.542	818.889	943.393	946.964	944.772	946.964
117.5	577.292	451.584	391.723	451.584	577.292	855.581	1104.839	1106.175	1085.681	1106.175
120.0	614.630	484.916	423.936	484.916	614.630	878.150	1210.094	1301.304	1290.154	1301.304
122.5	646.196	512.780	453.909	512.780	646.196	898.173	1233.869	1436.321	1477.232	1436.321
125.0	675.481	539.610	481.988	539.610	675.481	916.047	1230.332	1470.124	1546.046	1470.124
127.5	700.545	562.822	507.224	562.822	700.545	932.020	1221.810	1454.494	1536.489	1454.494
130.0	721.604	585.129	530.479	585.129	721.604	947.007	1212.073	1429.084	1506.685	1429.084
132.5	740.595	606.447	552.616	606.447	740.595	957.302	1202.986	1401.695	1473.267	1401.695
135.0	756.961	627.205	574.837	627.205	756.961	963.930	1193.514	1371.155	1438.213	1371.163
137.5	769.579	646.541	595.595	646.541	769.579	966.303	1179.520	1341.188	1402.038	1341.188
140.0	781.508	666.437	617.558	666.437	781.508	965.095	1162.031	1307.899	1365.434	1307.899
142.5	791.714	685.041	639.177	685.041	791.714	960.230	1141.100	1272.194	1323.828	1272.194
145.0	799.983	703.085	661.053	703.085	799.983	953.037	1115.613	1235.025	1279.988	1235.025
147.5	807.089	720.700	680.003	720.700	807.089	943.042	1087.873	1192.786	1233.740	1192.786
150.0	812.472	736.633	699.813	736.633	812.472	932.362	1057.812	1149.844	1184.984	1149.844
152.5	817.166	751.879	718.072	751.879	817.166	919.875	1026.895	1105.447	1137.443	1105.447
155.0	820.353	765.918	734.695	765.918	820.353	907.903	996.706	1061.649	1089.466	1061.649
157.5	822.463	779.225	751.664	779.225	822.463	894.722	967.938	1015.393	1043.047	1015.393
160.0	822.980	790.767	766.305	790.767	822.980	882.407	943.128	982.840	999.720	982.840
162.5	823.712	801.017	778.105	801.017	823.712	870.220	917.597	948.643	961.738	948.643
165.0	823.755	810.017	790.077	810.017	823.755	858.375	894.165	917.854	927.369	917.854
167.5	823.884	817.596	800.241	817.596	823.884	848.087	873.063	888.873	898.088	888.873
170.0	824.228	824.401	808.509	824.401	824.228	839.775	855.408	864.447	869.920	864.447
172.5	824.444	829.353	814.970	829.353	824.444	832.584	841.240	845.589	849.250	845.589
175.0	824.746	832.584	819.018	832.584	824.746	828.406	832.669	832.540	834.952	832.540
177.5	824.746	834.650	821.257	834.650	824.746	825.693	827.157	825.564	826.597	825.564
180.0	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209

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	1409.924	1434.432	1417.250
22.5	1344.451	1353.540	1367.360	1390.542	1377.927
25.0	1292.031	1306.070	1320.940	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-H-V-835-WSO-KPL2008-102.004.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	1052.721	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	3.105	2.580	2.726	2.399	2.463
92.5	46.860	43.569	40.149	38.612	32.126
95.0	82.397	80.356	77.044	81.954	64.228
97.5	114.954	113.392	127.517	124.463	94.890
100.0	147.034	202.868	211.098	168.050	128.671
102.5	264.857	333.469	269.878	210.288	163.183
105.0	457.933	451.540	329.911	252.324	198.635
107.5	643.914	514.631	393.687	296.070	234.819
110.0	736.160	601.021	453.005	337.155	273.207
112.5	811.569	724.876	495.510	374.669	311.612
115.0	943.393	818.889	537.542	412.652	350.750
117.5	1104.839	855.581	577.292	451.584	391.723
120.0	1210.094	878.150	614.630	484.916	423.936
122.5	1233.869	898.173	646.196	512.780	453.909
125.0	1230.332	916.047	675.481	539.610	481.988
127.5	1221.810	932.020	700.545	562.822	507.224
130.0	1212.073	947.007	721.604	585.129	530.479
132.5	1202.986	957.302	740.595	606.447	552.616
135.0	1193.514	963.930	756.961	627.205	574.837
137.5	1179.520	966.303	769.579	646.541	595.595
140.0	1162.031	965.095	781.508	666.437	617.558
142.5	1141.100	960.230	791.714	685.041	639.177
145.0	1115.613	953.037	799.983	703.085	661.053
147.5	1087.873	943.042	807.089	720.700	680.003
150.0	1057.812	932.362	812.472	736.633	699.813
152.5	1026.895	919.875	817.166	751.879	718.072
155.0	996.706	907.903	820.353	765.918	734.695
157.5	967.938	894.722	822.463	779.225	751.664
160.0	943.128	882.407	822.980	790.767	766.305
162.5	917.597	870.220	823.712	801.017	778.105
165.0	894.165	858.375	823.755	810.017	790.077
167.5	873.063	848.087	823.884	817.596	800.241

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-WSO-KPL2008-102.004.IES

CANDELA TABULATION - (Cont.)

170.0	855.408	839.775	824.228	824.401	808.509
172.5	841.240	832.584	824.444	829.353	814.970
175.0	832.669	828.406	824.746	832.584	819.018
177.5	827.157	825.693	824.746	834.650	821.257
180.0	826.209	826.209	826.209	826.209	826.209

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-WSO-KPL2008-102.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	565.82	N.A.	7.10
0-30	1168.39	N.A.	14.70
0-40	1851.36	N.A.	23.30
0-60	3073.52	N.A.	38.60
0-80	3725.86	N.A.	46.80
0-90	3802.87	N.A.	47.80
10-90	3653.84	N.A.	45.90
20-40	1285.54	N.A.	16.10
20-50	1946.78	N.A.	24.50
40-70	1633.59	N.A.	20.50
60-80	652.34	N.A.	8.20
70-80	240.91	N.A.	3.00
80-90	77.01	N.A.	1.00
90-110	465.56	N.A.	5.80
90-120	1182.75	N.A.	14.90
90-130	2044.13	N.A.	25.70
90-150	3411.31	N.A.	42.90
90-180	4157.96	N.A.	52.20
110-180	3692.4	N.A.	46.40
0-180	7960.83	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	77.01
90-100	88.52
100-110	377.04
110-120	717.18
120-130	861.38
130-140	762.81
140-150	604.37
150-160	422.33
160-170	244.77
170-180	79.56

IES INDOOR REPORT

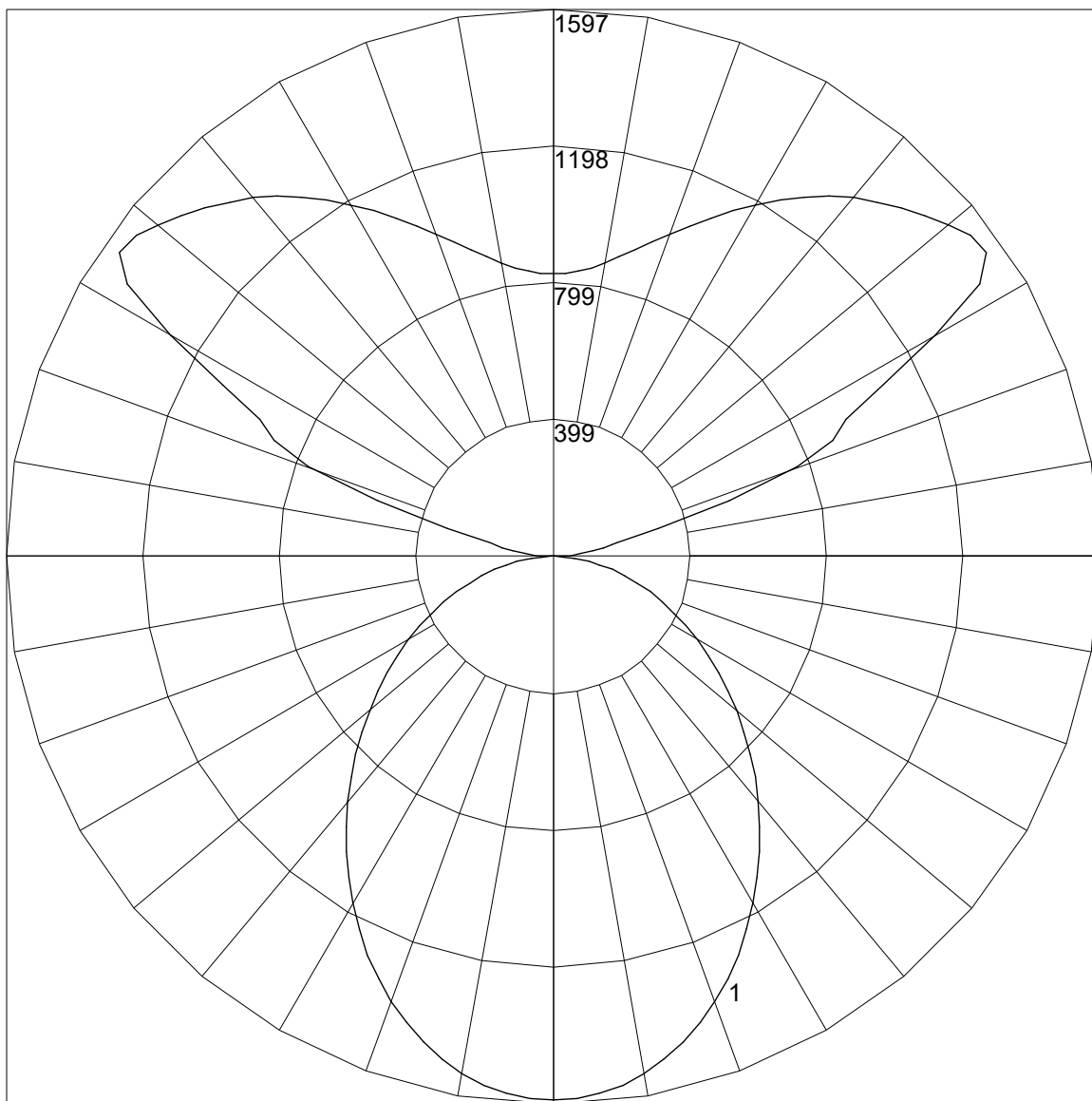
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-WSO-KPL2008-102.004.IES

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	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	34	31	29	25
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	24	22	19
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	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)