

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-B-835-WSO-KPL2008-102.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.006 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-B-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 50.8 WATTS
[ABSOLUTELUMENS]6798
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	50.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	9535	9100	8657
55	8675	8173	7754
65	7834	7362	6964
75	6990	6513	6285
85	6283	5897	5525

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	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731
2.5	1093.199	1109.618	1096.151	1096.759	1097.718	1096.113	1099.323	1096.113	1097.718	1096.759
5.0	1087.926	1104.033	1090.528	1090.718	1090.794	1089.227	1092.286	1089.227	1090.794	1090.718
7.5	1079.892	1094.697	1080.957	1080.082	1079.853	1077.746	1080.424	1077.746	1079.853	1080.082
10.0	1072.618	1087.652	1070.366	1066.349	1064.698	1061.182	1063.975	1061.182	1064.698	1066.349
12.5	1052.037	1068.068	1052.570	1052.456	1045.037	1041.325	1042.702	1041.325	1045.037	1052.456
15.0	1032.217	1046.377	1030.034	1029.843	1023.764	1017.411	1018.446	1017.411	1023.764	1029.843
17.5	1009.567	1022.463	1005.550	1002.605	999.813	989.367	990.592	989.367	999.813	1002.605
20.0	984.703	996.640	979.613	972.689	969.516	960.105	959.983	960.105	969.516	972.689
22.5	957.381	966.146	950.039	940.437	934.122	927.465	926.392	927.465	934.122	940.437
25.0	931.292	937.607	917.787	907.455	897.701	890.853	890.891	890.853	897.701	907.455
27.5	892.884	902.022	884.538	873.597	862.086	854.051	851.023	854.051	862.086	873.597
30.0	858.753	861.317	847.318	836.369	823.017	814.564	812.076	814.564	823.017	836.369
32.5	821.647	828.685	807.868	799.111	783.879	774.657	771.066	774.657	783.879	799.111
35.0	785.446	790.232	771.295	757.560	750.291	733.151	731.964	733.151	750.291	757.560
37.5	747.498	749.067	731.429	717.120	702.429	692.481	689.650	692.481	702.429	717.120
40.0	704.878	707.785	690.378	675.418	661.377	651.813	647.566	651.813	661.377	675.418
42.5	664.782	665.586	648.943	635.591	620.861	611.297	607.012	611.297	620.861	635.591
45.0	624.305	625.606	608.083	595.802	579.160	569.825	566.840	569.825	579.160	595.802
47.5	582.679	582.679	567.682	554.329	538.567	529.079	526.210	529.079	538.567	554.329
50.0	540.825	542.202	525.559	513.049	497.592	489.787	486.344	489.787	497.592	513.049
52.5	499.352	500.844	485.082	473.222	459.678	450.840	448.697	450.840	459.678	473.222
55.0	460.711	459.984	446.670	434.083	422.567	416.139	411.816	416.139	422.567	434.083
57.5	421.611	418.512	406.460	396.283	385.150	377.498	374.859	377.498	385.150	396.283
60.0	381.822	379.182	369.464	357.795	348.154	341.879	338.972	341.879	348.154	357.795
62.5	344.175	341.726	332.315	321.158	310.197	306.181	304.562	306.181	310.197	321.158
65.0	306.559	303.946	296.551	288.088	278.052	274.743	272.516	274.743	278.052	288.088
67.5	269.479	267.948	261.169	252.499	245.345	242.131	240.632	242.131	245.345	252.499
70.0	235.551	233.095	225.531	220.041	214.670	210.598	209.719	210.598	214.670	220.041
72.5	199.810	193.826	193.229	187.349	182.326	179.632	179.104	179.632	182.326	187.349
75.0	167.527	165.951	161.662	156.088	154.048	150.349	150.617	150.349	154.048	156.088
77.5	137.501	135.164	131.128	127.041	124.849	122.175	122.367	122.175	124.849	127.041
80.0	107.216	105.402	102.043	100.226	97.491	96.094	95.287	96.094	97.491	100.226
82.5	78.262	77.390	76.039	74.203	73.063	72.118	74.589	72.118	73.063	74.203
85.0	50.708	49.809	48.033	47.590	46.775	45.834	44.587	45.834	46.775	47.590
87.5	26.498	24.600	23.502	22.672	21.471	21.571	21.815	21.571	21.471	22.672
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	113.391	114.954	116.992	117.715	116.992	114.954	113.391
100.0	128.671	168.050	211.098	202.868	147.034	145.824	149.592	145.824	147.034	202.868
102.5	163.184	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	864.148	884.308	864.148	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	898.174	1233.869	1436.320	1477.232	1436.320	1233.869	898.174
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

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	960.231	1141.100	1272.194	1323.828	1272.194	1141.100	960.231
145.0	661.053	703.085	799.983	953.036	1115.613	1235.025	1279.988	1235.025	1115.613	953.036
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	736.634	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	999.721	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	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731	1100.731
2.5	1096.151	1109.618	1093.199	1109.618	1096.151	1096.759	1097.718	1096.113	1099.323	1096.113
5.0	1090.528	1104.033	1087.926	1104.033	1090.528	1090.718	1090.794	1089.227	1092.286	1089.227
7.5	1080.957	1094.697	1079.892	1094.697	1080.957	1080.082	1079.853	1077.746	1080.424	1077.746
10.0	1070.366	1087.652	1072.618	1087.652	1070.366	1066.349	1064.698	1061.182	1063.975	1061.182
12.5	1052.570	1068.068	1052.037	1068.068	1052.570	1052.456	1045.037	1041.325	1042.702	1041.325
15.0	1030.034	1046.377	1032.217	1046.377	1030.034	1029.843	1023.764	1017.411	1018.446	1017.411
17.5	1005.550	1022.463	1009.567	1022.463	1005.550	1002.605	999.813	989.367	990.592	989.367
20.0	979.613	996.640	984.703	996.640	979.613	972.689	969.516	960.105	959.983	960.105
22.5	950.039	966.146	957.381	966.146	950.039	940.437	934.122	927.465	926.392	927.465
25.0	917.787	937.607	931.292	937.607	917.787	907.455	897.701	890.853	890.891	890.853
27.5	884.538	902.022	892.884	902.022	884.538	873.597	862.086	854.051	851.023	854.051
30.0	847.318	861.317	858.753	861.317	847.318	836.369	823.017	814.564	812.076	814.564
32.5	807.868	828.685	821.647	828.685	807.868	799.111	783.879	774.657	771.066	774.657
35.0	771.295	790.232	785.446	790.232	771.295	757.560	750.291	733.151	731.964	733.151
37.5	731.429	749.067	747.498	749.067	731.429	717.120	702.429	692.481	689.650	692.481
40.0	690.378	707.785	704.878	707.785	690.378	675.418	661.377	651.813	647.566	651.813
42.5	648.943	665.586	664.782	665.586	648.943	635.591	620.861	611.297	607.012	611.297
45.0	608.083	625.606	624.305	625.606	608.083	595.802	579.160	569.825	566.840	569.825
47.5	567.682	582.679	582.679	582.679	567.682	554.329	538.567	529.079	526.210	529.079
50.0	525.559	542.202	540.825	542.202	525.559	513.049	497.592	489.787	486.344	489.787
52.5	485.082	500.844	499.352	500.844	485.082	473.222	459.678	450.840	448.697	450.840
55.0	446.670	459.984	460.711	459.984	446.670	434.083	422.567	416.139	411.816	416.139
57.5	406.460	418.512	421.611	418.512	406.460	396.283	385.150	377.498	374.859	377.498
60.0	369.464	379.182	381.822	379.182	369.464	357.795	348.154	341.879	338.972	341.879
62.5	332.315	341.726	344.175	341.726	332.315	321.158	310.197	306.181	304.562	306.181
65.0	296.551	303.946	306.559	303.946	296.551	288.088	278.052	274.743	272.516	274.743
67.5	261.169	267.948	269.479	267.948	261.169	252.499	245.345	242.131	240.632	242.131
70.0	225.531	233.095	235.551	233.095	225.531	220.041	214.670	210.598	209.719	210.598
72.5	193.229	193.826	199.810	193.826	193.229	187.349	182.326	179.632	179.104	179.632
75.0	161.662	165.951	167.527	165.951	161.662	156.088	154.048	150.349	150.617	150.349
77.5	131.128	135.164	137.501	135.164	131.128	127.041	124.849	122.175	122.367	122.175
80.0	102.043	105.402	107.216	105.402	102.043	100.226	97.491	96.094	95.287	96.094

CANDELA TABULATION - (Cont.)

82.5	76.039	77.390	78.262	77.390	76.039	74.203	73.063	72.118	74.589	72.118
85.0	48.033	49.809	50.708	49.809	48.033	47.590	46.775	45.834	44.587	45.834
87.5	23.502	24.600	26.498	24.600	23.502	22.672	21.471	21.571	21.815	21.571
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	113.391	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	163.184	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	864.148	884.308	864.148
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	898.174	1233.869	1436.320	1477.232	1436.320
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	960.231	1141.100	1272.194	1323.828	1272.194
145.0	799.983	703.085	661.053	703.085	799.983	953.036	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	736.634	699.813	736.634	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	999.721	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	1100.731	1100.731	1100.731	1100.731	1100.731
2.5	1097.718	1096.759	1096.151	1109.618	1093.199
5.0	1090.794	1090.718	1090.528	1104.033	1087.926
7.5	1079.853	1080.082	1080.957	1094.697	1079.892
10.0	1064.698	1066.349	1070.366	1087.652	1072.618
12.5	1045.037	1052.456	1052.570	1068.068	1052.037
15.0	1023.764	1029.843	1030.034	1046.377	1032.217
17.5	999.813	1002.605	1005.550	1022.463	1009.567
20.0	969.516	972.689	979.613	996.640	984.703
22.5	934.122	940.437	950.039	966.146	957.381
25.0	897.701	907.455	917.787	937.607	931.292
27.5	862.086	873.597	884.538	902.022	892.884

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-B-835-WSO-KPL2008-102.006.IES

CANDELA TABULATION - (Cont.)

30.0	823.017	836.369	847.318	861.317	858.753
32.5	783.879	799.111	807.868	828.685	821.647
35.0	750.291	757.560	771.295	790.232	785.446
37.5	702.429	717.120	731.429	749.067	747.498
40.0	661.377	675.418	690.378	707.785	704.878
42.5	620.861	635.591	648.943	665.586	664.782
45.0	579.160	595.802	608.083	625.606	624.305
47.5	538.567	554.329	567.682	582.679	582.679
50.0	497.592	513.049	525.559	542.202	540.825
52.5	459.678	473.222	485.082	500.844	499.352
55.0	422.567	434.083	446.670	459.984	460.711
57.5	385.150	396.283	406.460	418.512	421.611
60.0	348.154	357.795	369.464	379.182	381.822
62.5	310.197	321.158	332.315	341.726	344.175
65.0	278.052	288.088	296.551	303.946	306.559
67.5	245.345	252.499	261.169	267.948	269.479
70.0	214.670	220.041	225.531	233.095	235.551
72.5	182.326	187.349	193.229	193.826	199.810
75.0	154.048	156.088	161.662	165.951	167.527
77.5	124.849	127.041	131.128	135.164	137.501
80.0	97.491	100.226	102.043	105.402	107.216
82.5	73.063	74.203	76.039	77.390	78.262
85.0	46.775	47.590	48.033	49.809	50.708
87.5	21.471	22.672	23.502	24.600	26.498
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	113.391	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	163.184
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	898.174	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	960.231	791.714	685.041	639.177
145.0	1115.613	953.036	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	736.634	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-B-835-WSO-KPL2008-102.006.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-B-835-WSO-KPL2008-102.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	393.13	N.A.	5.80
0-30	811.80	N.A.	11.90
0-40	1286.32	N.A.	18.90
0-60	2135.48	N.A.	31.40
0-80	2588.72	N.A.	38.10
0-90	2642.34	N.A.	38.90
10-90	2538.8	N.A.	37.30
20-40	893.19	N.A.	13.10
20-50	1352.62	N.A.	19.90
40-70	1135.02	N.A.	16.70
60-80	453.24	N.A.	6.70
70-80	167.38	N.A.	2.50
80-90	53.62	N.A.	0.80
90-110	465.56	N.A.	6.80
90-120	1182.75	N.A.	17.40
90-130	2044.13	N.A.	30.10
90-150	3411.31	N.A.	50.20
90-180	4157.96	N.A.	61.10
110-180	3692.4	N.A.	54.30
0-180	6800.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.55
10-20	289.59
20-30	418.67
30-40	474.52
40-50	459.43
50-60	389.72
60-70	285.86
70-80	167.38
80-90	53.62
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

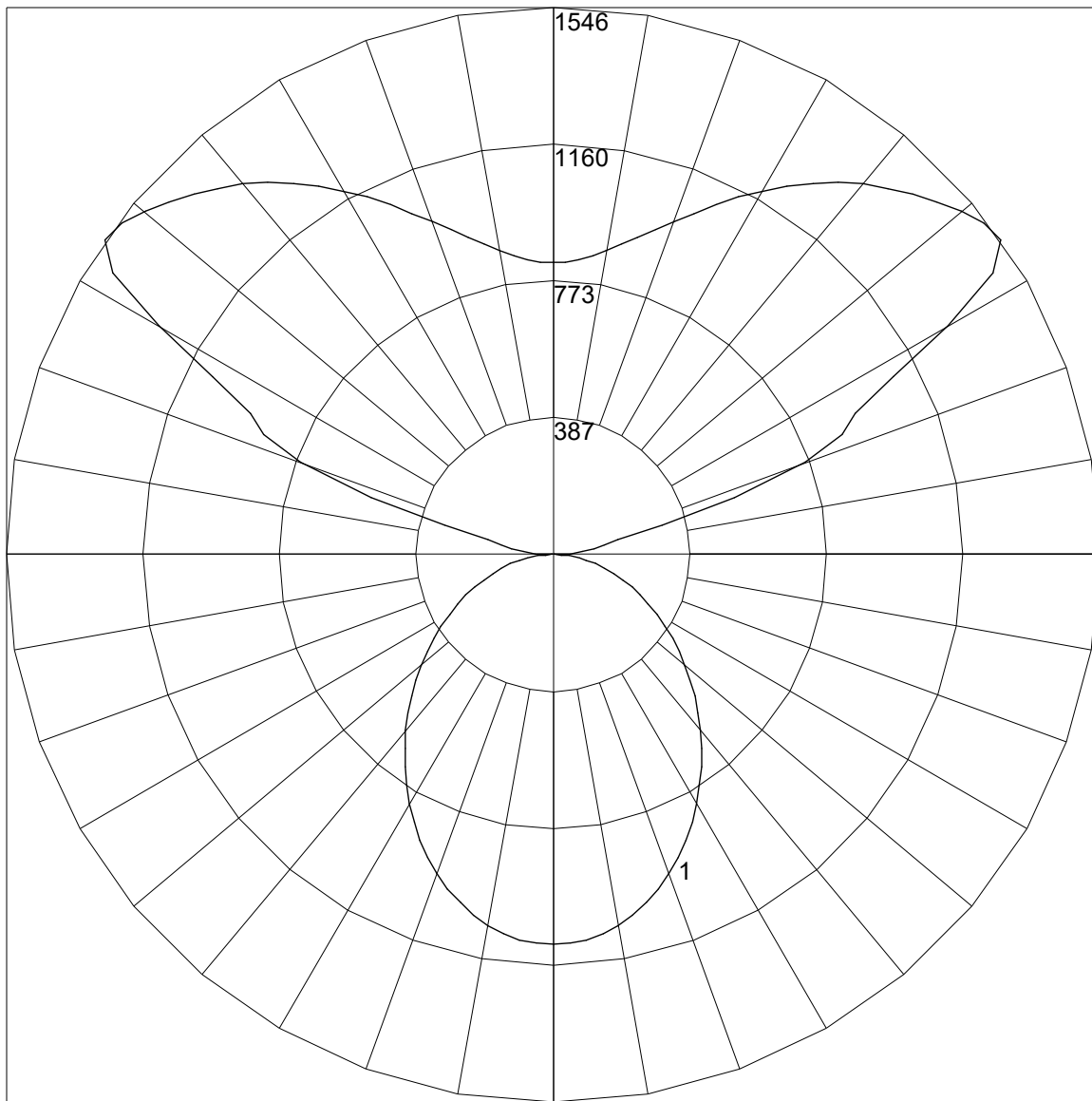
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-B-835-WSO-KPL2008-102.006.IES

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	53	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	23
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	47	41	60	51	44	38	42	36	33	33	30	27	26	23	21	18
6	61	49	42	36	56	45	38	33	38	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1546.046 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270)