

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-H-835-WSO-KPL2008-102.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.005 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-H-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.8 WATTS
[ABSOLUTELUMENS]7130
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	53.8
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	10733	10243	9745
55	9764	9200	8728
65	8818	8287	7839
75	7869	7331	7074
85	7073	6638	6219

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	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1230.546	1249.028	1233.869	1234.554	1235.633	1233.826	1237.440	1233.826	1235.633	1234.554
5.0	1224.611	1242.741	1227.540	1227.754	1227.839	1226.075	1229.518	1226.075	1227.839	1227.754
7.5	1215.567	1232.233	1216.766	1215.781	1215.524	1213.152	1216.166	1213.152	1215.524	1215.781
10.0	1207.379	1224.302	1204.844	1200.322	1198.464	1194.507	1197.650	1194.507	1198.464	1200.322
12.5	1184.213	1202.258	1184.812	1184.684	1176.334	1172.154	1173.705	1172.154	1176.334	1184.684
15.0	1161.903	1177.841	1159.445	1159.231	1152.388	1145.237	1146.401	1145.237	1152.388	1159.231
17.5	1136.407	1150.923	1131.885	1128.571	1125.427	1113.669	1115.048	1113.669	1125.427	1128.571
20.0	1108.419	1121.856	1102.689	1094.896	1091.324	1080.730	1080.593	1080.730	1091.324	1094.896
22.5	1077.664	1087.530	1069.400	1058.592	1051.483	1043.989	1042.782	1043.989	1051.483	1058.592
25.0	1048.297	1055.406	1033.096	1021.465	1010.486	1002.778	1002.821	1002.778	1010.486	1021.465
27.5	1005.065	1015.350	995.670	983.354	970.396	961.352	957.944	961.352	970.396	983.354
30.0	966.645	969.531	953.773	941.449	926.419	916.904	914.103	916.904	926.419	941.449
32.5	924.877	932.799	909.367	899.510	882.364	871.984	867.941	871.984	882.364	899.510
35.0	884.128	889.515	868.198	852.738	844.556	825.262	823.927	825.262	844.556	852.738
37.5	841.412	843.178	823.324	807.218	790.680	779.483	776.297	779.483	790.680	807.218
40.0	793.437	796.710	777.115	760.276	744.472	733.705	728.925	733.705	744.472	760.276
42.5	748.304	749.208	730.475	715.445	698.865	688.099	683.275	688.099	698.865	715.445
45.0	702.741	704.206	684.481	670.657	651.924	641.416	638.057	641.416	651.924	670.657
47.5	655.886	655.886	639.005	623.974	606.232	595.551	592.321	595.551	606.232	623.974
50.0	608.773	610.323	591.589	577.507	560.108	551.323	547.447	551.323	560.108	577.507
52.5	562.089	563.769	546.026	532.676	517.431	507.483	505.071	507.483	517.431	532.676
55.0	518.594	517.775	502.788	488.620	475.658	468.422	463.556	468.422	475.658	488.620
57.5	474.581	471.093	457.527	446.071	433.539	424.926	421.955	424.926	433.539	446.071
60.0	429.793	426.821	415.883	402.748	391.895	384.832	381.560	384.832	391.895	402.748
62.5	387.416	384.660	374.066	361.508	349.170	344.648	342.827	344.648	349.170	361.508
65.0	345.074	342.133	333.809	324.282	312.986	309.262	306.755	309.262	312.986	324.282
67.5	303.336	301.613	293.982	284.223	276.170	272.552	270.864	272.552	276.170	284.223
70.0	265.145	262.381	253.866	247.687	241.640	237.058	236.068	237.058	241.640	247.687
72.5	224.913	218.178	217.506	210.887	205.233	202.201	201.606	202.201	205.233	210.887
75.0	188.575	186.800	181.973	175.699	173.402	169.238	169.540	169.238	173.402	175.699
77.5	154.777	152.146	147.602	143.003	140.535	137.525	137.741	137.525	140.535	143.003
80.0	120.687	118.645	114.864	112.819	109.740	108.167	107.259	108.167	109.740	112.819
82.5	88.094	87.113	85.593	83.525	82.242	81.179	83.960	81.179	82.242	83.525
85.0	57.079	56.067	54.068	53.569	52.652	51.592	50.189	51.592	52.652	53.569
87.5	29.827	27.691	26.455	25.521	24.168	24.281	24.556	24.281	24.168	25.521
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

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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	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1233.869	1249.028	1230.546	1249.028	1233.869	1234.554	1235.633	1233.826	1237.440	1233.826
5.0	1227.540	1242.741	1224.611	1242.741	1227.540	1227.754	1227.839	1226.075	1229.518	1226.075
7.5	1216.766	1232.233	1215.567	1232.233	1216.766	1215.781	1215.524	1213.152	1216.166	1213.152
10.0	1204.844	1224.302	1207.379	1224.302	1204.844	1200.322	1198.464	1194.507	1197.650	1194.507
12.5	1184.812	1202.258	1184.213	1202.258	1184.812	1184.684	1176.334	1172.154	1173.705	1172.154
15.0	1159.445	1177.841	1161.903	1177.841	1159.445	1159.231	1152.388	1145.237	1146.401	1145.237
17.5	1131.885	1150.923	1136.407	1150.923	1131.885	1128.571	1125.427	1113.669	1115.048	1113.669
20.0	1102.689	1121.856	1108.419	1121.856	1102.689	1094.896	1091.324	1080.730	1080.593	1080.730
22.5	1069.400	1087.530	1077.664	1087.530	1069.400	1058.592	1051.483	1043.989	1042.782	1043.989
25.0	1033.096	1055.406	1048.297	1055.406	1033.096	1021.465	1010.486	1002.778	1002.821	1002.778
27.5	995.670	1015.350	1005.065	1015.350	995.670	983.354	970.396	961.352	957.944	961.352
30.0	953.773	969.531	966.645	969.531	953.773	941.449	926.419	916.904	914.103	916.904
32.5	909.367	932.799	924.877	932.799	909.367	899.510	882.364	871.984	867.941	871.984
35.0	868.198	889.515	884.128	889.515	868.198	852.738	844.556	825.262	823.927	825.262
37.5	823.324	843.178	841.412	843.178	823.324	807.218	790.680	779.483	776.297	779.483
40.0	777.115	796.710	793.437	796.710	777.115	760.276	744.472	733.705	728.925	733.705
42.5	730.475	749.208	748.304	749.208	730.475	715.445	698.865	688.099	683.275	688.099
45.0	684.481	704.206	702.741	704.206	684.481	670.657	651.924	641.416	638.057	641.416
47.5	639.005	655.886	655.886	655.886	639.005	623.974	606.232	595.551	592.321	595.551
50.0	591.589	610.323	608.773	610.323	591.589	577.507	560.108	551.323	547.447	551.323
52.5	546.026	563.769	562.089	563.769	546.026	532.676	517.431	507.483	505.071	507.483
55.0	502.788	517.775	518.594	517.775	502.788	488.620	475.658	468.422	463.556	468.422
57.5	457.527	471.093	474.581	471.093	457.527	446.071	433.539	424.926	421.955	424.926
60.0	415.883	426.821	429.793	426.821	415.883	402.748	391.895	384.832	381.560	384.832
62.5	374.066	384.660	387.416	384.660	374.066	361.508	349.170	344.648	342.827	344.648
65.0	333.809	342.133	345.074	342.133	333.809	324.282	312.986	309.262	306.755	309.262
67.5	293.982	301.613	303.336	301.613	293.982	284.223	276.170	272.552	270.864	272.552
70.0	253.866	262.381	265.145	262.381	253.866	247.687	241.640	237.058	236.068	237.058
72.5	217.506	218.178	224.913	218.178	217.506	210.887	205.233	202.201	201.606	202.201
75.0	181.973	186.800	188.575	186.800	181.973	175.699	173.402	169.238	169.540	169.238
77.5	147.602	152.146	154.777	152.146	147.602	143.003	140.535	137.525	137.741	137.525
80.0	114.864	118.645	120.687	118.645	114.864	112.819	109.740	108.167	107.259	108.167

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CANDELA TABULATION - (Cont.)

82.5	85.593	87.113	88.094	87.113	85.593	83.525	82.242	81.179	83.960	81.179
85.0	54.068	56.067	57.079	56.067	54.068	53.569	52.652	51.592	50.189	51.592
87.5	26.455	27.691	29.827	27.691	26.455	25.521	24.168	24.281	24.556	24.281
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	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1235.633	1234.554	1233.869	1249.028	1230.546
5.0	1227.839	1227.754	1227.540	1242.741	1224.611
7.5	1215.524	1215.781	1216.766	1232.233	1215.567
10.0	1198.464	1200.322	1204.844	1224.302	1207.379
12.5	1176.334	1184.684	1184.812	1202.258	1184.213
15.0	1152.388	1159.231	1159.445	1177.841	1161.903
17.5	1125.427	1128.571	1131.885	1150.923	1136.407
20.0	1091.324	1094.896	1102.689	1121.856	1108.419
22.5	1051.483	1058.592	1069.400	1087.530	1077.664
25.0	1010.486	1021.465	1033.096	1055.406	1048.297
27.5	970.396	983.354	995.670	1015.350	1005.065

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-H-835-WSO-KPL2008-102.005.IES****CANDELA TABULATION - (Cont.)**

30.0	926.419	941.449	953.773	969.531	966.645
32.5	882.364	899.510	909.367	932.799	924.877
35.0	844.556	852.738	868.198	889.515	884.128
37.5	790.680	807.218	823.324	843.178	841.412
40.0	744.472	760.276	777.115	796.710	793.437
42.5	698.865	715.445	730.475	749.208	748.304
45.0	651.924	670.657	684.481	704.206	702.741
47.5	606.232	623.974	639.005	655.886	655.886
50.0	560.108	577.507	591.589	610.323	608.773
52.5	517.431	532.676	546.026	563.769	562.089
55.0	475.658	488.620	502.788	517.775	518.594
57.5	433.539	446.071	457.527	471.093	474.581
60.0	391.895	402.748	415.883	426.821	429.793
62.5	349.170	361.508	374.066	384.660	387.416
65.0	312.986	324.282	333.809	342.133	345.074
67.5	276.170	284.223	293.982	301.613	303.336
70.0	241.640	247.687	253.866	262.381	265.145
72.5	205.233	210.887	217.506	218.178	224.913
75.0	173.402	175.699	181.973	186.800	188.575
77.5	140.535	143.003	147.602	152.146	154.777
80.0	109.740	112.819	114.864	118.645	120.687
82.5	82.242	83.525	85.593	87.113	88.094
85.0	52.652	53.569	54.068	56.067	57.079
87.5	24.168	25.521	26.455	27.691	29.827
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-H-835-WSO-KPL2008-102.005.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-H-835-WSO-KPL2008-102.005.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.52	N.A.	6.20
0-30	913.79	N.A.	12.80
0-40	1447.93	N.A.	20.30
0-60	2403.78	N.A.	33.70
0-80	2913.96	N.A.	40.90
0-90	2974.28	N.A.	41.70
10-90	2857.72	N.A.	40.10
20-40	1005.41	N.A.	14.10
20-50	1522.56	N.A.	21.30
40-70	1277.62	N.A.	17.90
60-80	510.19	N.A.	7.20
70-80	188.41	N.A.	2.60
80-90	60.31	N.A.	0.80
90-110	465.56	N.A.	6.50
90-120	1182.75	N.A.	16.60
90-130	2044.13	N.A.	28.70
90-150	3411.31	N.A.	47.80
90-180	4157.96	N.A.	58.30
110-180	3692.4	N.A.	51.80
0-180	7132.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.55
10-20	325.97
20-30	471.27
30-40	534.14
40-50	517.16
50-60	438.69
60-70	321.77
70-80	188.41
80-90	60.31
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

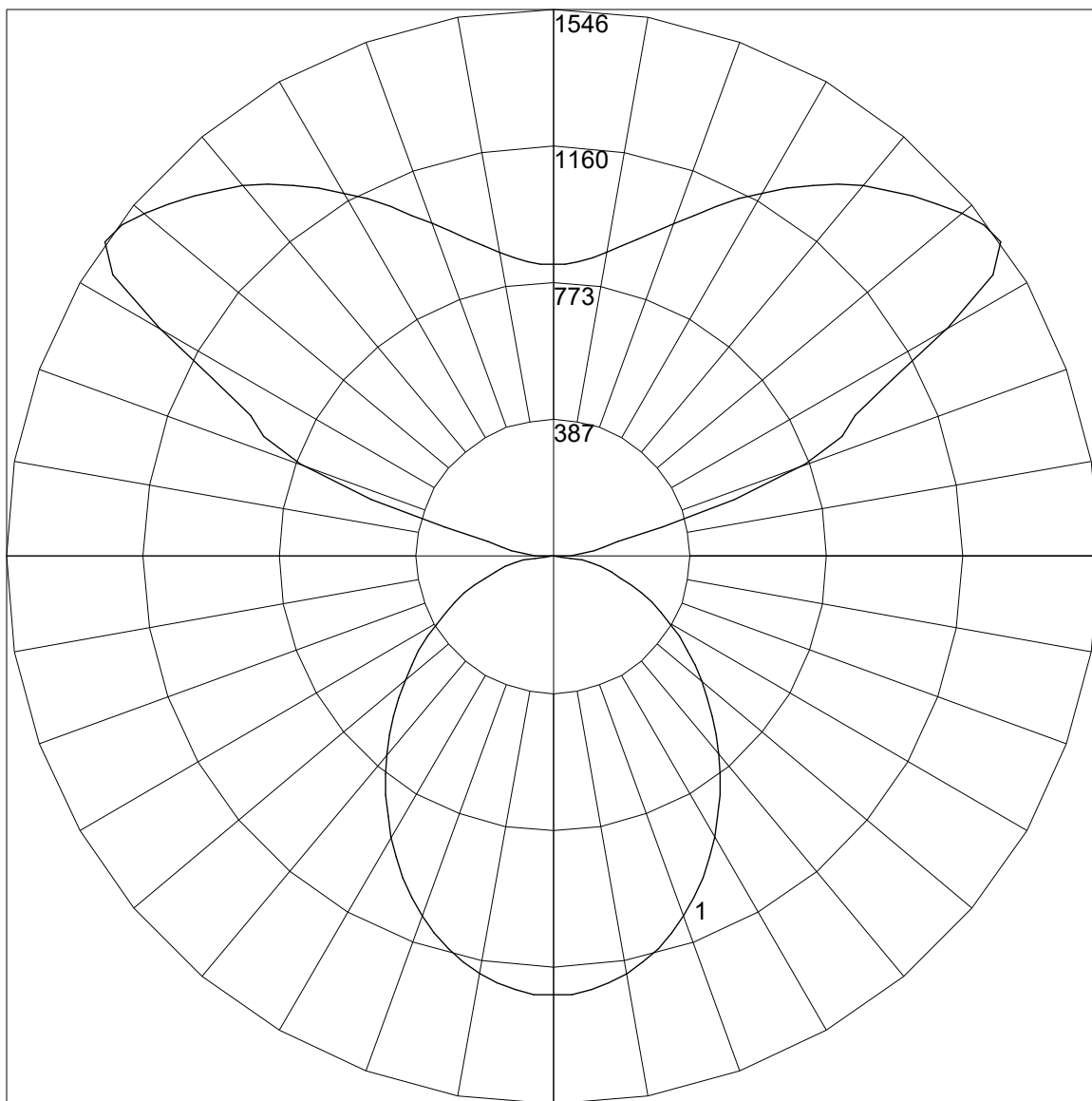
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-H-835-WSO-KPL2008-102.005.IES

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	58	73	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	51	45	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	41	35	30	35	29	26	28	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



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