

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-B-835-F-F-KPL2008-50.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.014 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 1/18/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-ID-4ft-S-B-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.0 WATTS
[ABSOLUTELUMENS]5603
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	43
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	10472	9994	9508
55	9527	8977	8516
65	8604	8085	7648
75	7677	7153	6903
85	6901	6477	6068

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	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1200.649	1218.682	1203.892	1204.560	1205.613	1203.850	1207.376	1203.850	1205.613	1204.560
5.0	1194.858	1212.549	1197.716	1197.925	1198.009	1196.287	1199.647	1196.287	1198.009	1197.925
7.5	1186.034	1202.296	1187.204	1186.243	1185.993	1183.678	1186.619	1183.678	1185.993	1186.243
10.0	1178.046	1194.558	1175.572	1171.160	1169.347	1165.486	1168.553	1165.486	1169.347	1171.160
12.5	1155.442	1173.049	1156.027	1155.902	1147.754	1143.677	1145.189	1143.677	1147.754	1155.902
15.0	1133.674	1149.225	1131.276	1131.067	1124.390	1117.413	1118.549	1117.413	1124.390	1131.067
17.5	1108.798	1122.961	1104.385	1101.152	1098.085	1086.612	1087.957	1086.612	1098.085	1101.152
20.0	1081.489	1094.600	1075.899	1068.295	1064.810	1054.474	1054.340	1054.474	1064.810	1068.295
22.5	1051.482	1061.109	1043.418	1032.873	1025.937	1018.625	1017.447	1018.625	1025.937	1032.873
25.0	1022.829	1029.764	1007.996	996.648	985.936	978.415	978.457	978.415	985.936	996.648
27.5	980.646	990.682	971.479	959.463	946.820	937.996	934.670	937.996	946.820	959.463
30.0	943.160	945.976	930.601	918.576	903.911	894.627	891.895	894.627	903.911	918.576
32.5	902.407	910.136	887.274	877.656	860.926	850.799	846.855	850.799	860.926	877.656
35.0	862.648	867.904	847.105	832.021	824.037	805.212	803.909	805.212	824.037	832.021
37.5	820.969	822.693	803.321	787.606	771.470	760.546	757.436	760.546	771.470	787.606
40.0	774.160	777.353	758.235	741.805	726.384	715.880	711.215	715.880	726.384	741.805
42.5	730.124	731.006	712.728	698.063	681.886	671.381	666.675	671.381	681.886	698.063
45.0	685.668	687.097	667.851	654.364	636.085	625.833	622.555	625.833	636.085	654.364
47.5	639.951	639.951	623.480	608.815	591.503	581.082	577.931	581.082	591.503	608.815
50.0	593.982	595.495	577.216	563.476	546.500	537.929	534.147	537.929	546.500	563.476
52.5	548.433	550.072	532.760	519.735	504.860	495.153	492.800	495.153	504.860	519.735
55.0	505.994	505.196	490.573	476.749	464.101	457.042	452.294	457.042	464.101	476.749
57.5	463.051	459.647	446.411	435.234	423.006	414.602	411.704	414.602	423.006	435.234
60.0	419.351	416.452	405.779	392.963	382.374	375.483	372.290	375.483	382.374	392.963
62.5	378.004	375.315	364.978	352.725	340.686	336.275	334.498	336.275	340.686	352.725
65.0	336.690	333.821	325.699	316.404	305.382	301.748	299.302	301.748	305.382	316.404
67.5	295.966	294.285	286.840	277.318	269.460	265.931	264.284	265.931	269.460	277.318
70.0	258.703	256.006	247.698	241.669	235.770	231.298	230.332	231.298	235.770	241.669
72.5	219.449	212.877	212.222	205.763	200.246	197.288	196.708	197.288	200.246	205.763
75.0	183.993	182.262	177.552	171.430	169.190	165.127	165.421	165.127	169.190	171.430
77.5	151.016	148.449	144.016	139.528	137.121	134.184	134.394	134.184	137.121	139.528
80.0	117.754	115.762	112.073	110.078	107.073	105.539	104.653	105.539	107.073	110.078
82.5	85.954	84.996	83.513	81.496	80.244	79.206	81.920	79.206	80.244	81.496
85.0	55.692	54.705	52.755	52.267	51.372	50.339	48.969	50.339	51.372	52.267
87.5	29.102	27.018	25.812	24.901	23.581	23.691	23.959	23.691	23.581	24.901
90.0	1.921	1.871	2.126	2.012	2.422	2.563	1.948	2.563	2.422	2.012
92.5	26.914	28.016	28.050	27.260	27.835	26.431	27.982	26.431	27.835	27.260
95.0	56.273	56.434	57.305	56.720	57.365	54.346	53.708	54.346	57.365	56.720
97.5	81.401	81.576	80.118	79.292	79.047	78.792	79.843	78.792	79.047	79.292
100.0	111.398	110.515	108.121	107.651	107.422	106.217	106.159	106.217	107.422	107.651
102.5	140.557	140.305	138.306	137.322	135.469	134.518	134.484	134.518	135.469	137.322
105.0	171.219	171.491	169.587	167.873	166.403	165.247	165.966	165.247	166.403	167.873
107.5	205.589	203.822	201.263	199.560	198.267	197.290	195.923	197.290	198.267	199.560
110.0	239.132	238.299	236.137	233.319	230.659	230.710	230.286	230.710	230.659	233.319
112.5	271.595	274.792	271.400	267.753	265.812	263.233	263.743	263.233	265.812	267.753
115.0	306.623	311.325	306.724	311.023	300.612	297.421	298.831	297.421	300.612	311.023
117.5	345.849	348.435	342.760	341.651	337.520	334.263	335.639	334.263	337.520	341.651
120.0	382.859	386.285	381.449	379.534	375.000	371.776	371.306	371.776	375.000	379.534
122.5	423.160	424.470	420.843	417.719	411.540	411.506	407.644	411.506	411.540	417.719
125.0	461.513	464.972	461.379	458.054	449.456	450.531	447.072	450.531	449.456	458.054
127.5	501.948	504.904	500.135	495.668	490.597	490.026	487.373	490.026	490.597	495.668
130.0	540.637	545.272	541.074	536.909	530.864	529.991	529.487	529.991	530.864	536.909
132.5	579.729	585.942	579.427	576.908	570.661	569.989	573.147	569.989	570.661	576.908

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CANDELA TABULATION - (Cont.)

135.0	618.485	626.445	618.787	617.007	613.179	611.668	614.388	611.668	613.179	617.007
137.5	659.458	664.865	656.167	654.823	655.596	651.162	655.159	651.162	655.596	654.823
140.0	697.139	706.142	695.663	694.521	695.022	692.137	695.463	692.137	695.022	694.521
142.5	734.079	742.441	734.353	733.078	733.278	730.252	731.394	730.252	733.278	733.078
145.0	772.436	778.313	770.719	769.210	769.818	768.776	770.152	768.776	769.818	769.210
147.5	806.892	814.045	807.499	807.466	807.433	804.374	806.224	804.374	807.433	807.466
150.0	842.289	849.041	840.139	840.446	840.646	838.496	841.414	838.496	840.646	840.446
152.5	871.642	881.854	873.526	874.601	873.526	870.834	874.528	870.834	873.526	874.601
155.0	901.530	913.285	903.714	903.514	903.914	899.246	904.288	899.246	903.914	903.514
157.5	929.674	942.872	932.326	929.841	930.416	930.950	930.416	930.950	930.416	929.841
160.0	956.677	968.365	955.735	953.384	954.693	950.466	952.850	950.466	954.693	953.384
162.5	977.434	989.991	977.468	975.785	977.161	971.891	974.883	971.891	977.161	975.785
165.0	996.709	1008.130	996.876	994.899	995.968	991.540	994.966	991.540	995.968	994.899
167.5	1012.558	1024.587	1013.533	1011.723	1012.658	1009.105	1012.832	1009.105	1012.658	1011.723
170.0	1025.662	1038.793	1027.238	1025.355	1027.338	1023.278	1027.539	1023.278	1027.338	1025.355
172.5	1036.001	1049.839	1038.419	1036.375	1038.519	1034.258	1038.759	1034.258	1038.519	1036.375
175.0	1043.595	1057.734	1046.446	1044.162	1046.413	1042.786	1047.221	1042.786	1046.413	1044.162
177.5	1048.297	1062.302	1050.948	1048.731	1051.249	1047.355	1052.257	1047.355	1051.249	1048.731
180.0	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312

**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	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1203.892	1218.682	1200.649	1218.682	1203.892	1204.560	1205.613	1203.850	1207.376	1203.850
5.0	1197.716	1212.549	1194.858	1212.549	1197.716	1197.925	1198.009	1196.287	1199.647	1196.287
7.5	1187.204	1202.296	1186.034	1202.296	1187.204	1186.243	1185.993	1183.678	1186.619	1183.678
10.0	1175.572	1194.558	1178.046	1194.558	1175.572	1171.160	1169.347	1165.486	1168.553	1165.486
12.5	1156.027	1173.049	1155.442	1173.049	1156.027	1155.902	1147.754	1143.677	1145.189	1143.677
15.0	1131.276	1149.225	1133.674	1149.225	1131.276	1131.067	1124.390	1117.413	1118.549	1117.413
17.5	1104.385	1122.961	1108.798	1122.961	1104.385	1101.152	1098.085	1086.612	1087.957	1086.612
20.0	1075.899	1094.600	1081.489	1094.600	1075.899	1068.295	1064.810	1054.474	1054.340	1054.474
22.5	1043.418	1061.109	1051.482	1061.109	1043.418	1032.873	1025.937	1018.625	1017.447	1018.625
25.0	1007.996	1029.764	1022.829	1029.764	1007.996	996.648	985.936	978.415	978.457	978.415
27.5	971.479	990.682	980.646	990.682	971.479	959.463	946.820	937.996	934.670	937.996
30.0	930.601	945.976	943.160	945.976	930.601	918.576	903.911	894.627	891.895	894.627
32.5	887.274	910.136	902.407	910.136	887.274	877.656	860.926	850.799	846.855	850.799
35.0	847.105	867.904	862.648	867.904	847.105	832.021	824.037	805.212	803.909	805.212
37.5	803.321	822.693	820.969	822.693	803.321	787.606	771.470	760.546	757.436	760.546
40.0	758.235	777.353	774.160	777.353	758.235	741.805	726.384	715.880	711.215	715.880
42.5	712.728	731.006	730.124	731.006	712.728	698.063	681.886	671.381	666.675	671.381
45.0	667.851	687.097	685.668	687.097	667.851	654.364	636.085	625.833	622.555	625.833
47.5	623.480	639.951	639.951	639.951	623.480	608.815	591.503	581.082	577.931	581.082
50.0	577.216	595.495	593.982	595.495	577.216	563.476	546.500	537.929	534.147	537.929
52.5	532.760	550.072	548.433	550.072	532.760	519.735	504.860	495.153	492.800	495.153
55.0	490.573	505.196	505.994	505.196	490.573	476.749	464.101	457.042	452.294	457.042
57.5	446.411	459.647	463.051	459.647	446.411	435.234	423.006	414.602	411.704	414.602
60.0	405.779	416.452	419.351	416.452	405.779	392.963	382.374	375.483	372.290	375.483
62.5	364.978	375.315	378.004	375.315	364.978	352.725	340.686	336.275	334.498	336.275
65.0	325.699	333.821	336.690	333.821	325.699	316.404	305.382	301.748	299.302	301.748
67.5	286.840	294.285	295.966	294.285	286.840	277.318	269.460	265.931	264.284	265.931
70.0	247.698	256.006	258.703	256.006	247.698	241.669	235.770	231.298	230.332	231.298
72.5	212.222	212.877	219.449	212.877	212.222	205.763	200.246	197.288	196.708	197.288
75.0	177.552	182.262	183.993	182.262	177.552	171.430	169.190	165.127	165.421	165.127
77.5	144.016	148.449	151.016	148.449	144.016	139.528	137.121	134.184	134.394	134.184
80.0	112.073	115.762	117.754	115.762	112.073	110.078	107.073	105.539	104.653	105.539

CANDELA TABULATION - (Cont.)

82.5	83.513	84.996	85.954	84.996	83.513	81.496	80.244	79.206	81.920	79.206
85.0	52.755	54.705	55.692	54.705	52.755	52.267	51.372	50.339	48.969	50.339
87.5	25.812	27.018	29.102	27.018	25.812	24.901	23.581	23.691	23.959	23.691
90.0	2.126	1.871	1.921	1.871	2.126	2.012	2.422	2.563	1.948	2.563
92.5	28.050	28.016	26.914	28.016	28.050	27.260	27.835	26.431	27.982	26.431
95.0	57.305	56.434	56.273	56.434	57.305	56.720	57.365	54.346	53.708	54.346
97.5	80.118	81.576	81.401	81.576	80.118	79.292	79.047	78.792	79.843	78.792
100.0	108.121	110.515	111.398	110.515	108.121	107.651	107.422	106.217	106.159	106.217
102.5	138.306	140.305	140.557	140.305	138.306	137.322	135.469	134.518	134.484	134.518
105.0	169.587	171.491	171.219	171.491	169.587	167.873	166.403	165.247	165.966	165.247
107.5	201.263	203.822	205.589	203.822	201.263	199.560	198.267	197.290	195.923	197.290
110.0	236.137	238.299	239.132	238.299	236.137	233.319	230.659	230.710	230.286	230.710
112.5	271.400	274.792	271.595	274.792	271.400	267.753	265.812	263.233	263.743	263.233
115.0	306.724	311.325	306.623	311.325	306.724	311.023	300.612	297.421	298.831	297.421
117.5	342.760	348.435	345.849	348.435	342.760	341.651	337.520	334.263	335.639	334.263
120.0	381.449	386.285	382.859	386.285	381.449	379.534	375.000	371.776	371.306	371.776
122.5	420.843	424.470	423.160	424.470	420.843	417.719	411.540	411.506	407.644	411.506
125.0	461.379	464.972	461.513	464.972	461.379	458.054	449.456	450.531	447.072	450.531
127.5	500.135	504.904	501.948	504.904	500.135	495.668	490.597	490.026	487.373	490.026
130.0	541.074	545.272	540.637	545.272	541.074	536.909	530.864	529.991	529.487	529.991
132.5	579.427	585.942	579.729	585.942	579.427	576.908	570.661	569.989	573.147	569.989
135.0	618.787	626.445	618.485	626.445	618.787	617.007	613.179	611.668	614.388	611.668
137.5	656.167	664.865	659.458	664.865	656.167	654.823	655.596	651.162	655.159	651.162
140.0	695.663	706.142	697.139	706.142	695.663	694.521	695.022	692.137	695.463	692.137
142.5	734.353	742.441	734.079	742.441	734.353	733.078	733.278	730.252	731.394	730.252
145.0	770.719	778.313	772.436	778.313	770.719	769.210	769.818	768.776	770.152	768.776
147.5	807.499	814.045	806.892	814.045	807.499	807.466	807.433	804.374	806.224	804.374
150.0	840.139	849.041	842.289	849.041	840.139	840.446	840.646	838.496	841.414	838.496
152.5	873.526	881.854	871.642	881.854	873.526	874.601	873.526	870.834	874.528	870.834
155.0	903.714	913.285	901.530	913.285	903.714	903.514	903.914	899.246	904.288	899.246
157.5	932.326	942.872	929.674	942.872	932.326	929.841	930.416	930.950	930.416	930.950
160.0	955.735	968.365	956.677	968.365	955.735	953.384	954.693	950.466	952.850	950.466
162.5	977.468	989.991	977.434	989.991	977.468	975.785	977.161	971.891	974.883	971.891
165.0	996.876	1008.130	996.709	1008.130	996.876	994.899	995.968	991.540	994.966	991.540
167.5	1013.533	1024.587	1012.558	1024.587	1013.533	1011.723	1012.658	1009.105	1012.832	1009.105
170.0	1027.238	1038.793	1025.662	1038.793	1027.238	1025.355	1027.338	1023.278	1027.539	1023.278
172.5	1038.419	1049.839	1036.001	1049.839	1038.419	1036.375	1038.519	1034.258	1038.759	1034.258
175.0	1046.446	1057.734	1043.595	1057.734	1046.446	1044.162	1046.413	1042.786	1047.221	1042.786
177.5	1050.948	1062.302	1048.297	1062.302	1050.948	1048.731	1051.249	1047.355	1052.257	1047.355
180.0	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312

Vert.
Angles

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1205.613	1204.560	1203.892	1218.682	1200.649
5.0	1198.009	1197.925	1197.716	1212.549	1194.858
7.5	1185.993	1186.243	1187.204	1202.296	1186.034
10.0	1169.347	1171.160	1175.572	1194.558	1178.046
12.5	1147.754	1155.902	1156.027	1173.049	1155.442
15.0	1124.390	1131.067	1131.276	1149.225	1133.674
17.5	1098.085	1101.152	1104.385	1122.961	1108.798
20.0	1064.810	1068.295	1075.899	1094.600	1081.489
22.5	1025.937	1032.873	1043.418	1061.109	1051.482
25.0	985.936	996.648	1007.996	1029.764	1022.829
27.5	946.820	959.463	971.479	990.682	980.646

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	903.911	918.576	930.601	945.976	943.160
32.5	860.926	877.656	887.274	910.136	902.407
35.0	824.037	832.021	847.105	867.904	862.648
37.5	771.470	787.606	803.321	822.693	820.969
40.0	726.384	741.805	758.235	777.353	774.160
42.5	681.886	698.063	712.728	731.006	730.124
45.0	636.085	654.364	667.851	687.097	685.668
47.5	591.503	608.815	623.480	639.951	639.951
50.0	546.500	563.476	577.216	595.495	593.982
52.5	504.860	519.735	532.760	550.072	548.433
55.0	464.101	476.749	490.573	505.196	505.994
57.5	423.006	435.234	446.411	459.647	463.051
60.0	382.374	392.963	405.779	416.452	419.351
62.5	340.686	352.725	364.978	375.315	378.004
65.0	305.382	316.404	325.699	333.821	336.690
67.5	269.460	277.318	286.840	294.285	295.966
70.0	235.770	241.669	247.698	256.006	258.703
72.5	200.246	205.763	212.222	212.877	219.449
75.0	169.190	171.430	177.552	182.262	183.993
77.5	137.121	139.528	144.016	148.449	151.016
80.0	107.073	110.078	112.073	115.762	117.754
82.5	80.244	81.496	83.513	84.996	85.954
85.0	51.372	52.267	52.755	54.705	55.692
87.5	23.581	24.901	25.812	27.018	29.102
90.0	2.422	2.012	2.126	1.871	1.921
92.5	27.835	27.260	28.050	28.016	26.914
95.0	57.365	56.720	57.305	56.434	56.273
97.5	79.047	79.292	80.118	81.576	81.401
100.0	107.422	107.651	108.121	110.515	111.398
102.5	135.469	137.322	138.306	140.305	140.557
105.0	166.403	167.873	169.587	171.491	171.219
107.5	198.267	199.560	201.263	203.822	205.589
110.0	230.659	233.319	236.137	238.299	239.132
112.5	265.812	267.753	271.400	274.792	271.595
115.0	300.612	311.023	306.724	311.325	306.623
117.5	337.520	341.651	342.760	348.435	345.849
120.0	375.000	379.534	381.449	386.285	382.859
122.5	411.540	417.719	420.843	424.470	423.160
125.0	449.456	458.054	461.379	464.972	461.513
127.5	490.597	495.668	500.135	504.904	501.948
130.0	530.864	536.909	541.074	545.272	540.637
132.5	570.661	576.908	579.427	585.942	579.729
135.0	613.179	617.007	618.787	626.445	618.485
137.5	655.596	654.823	656.167	664.865	659.458
140.0	695.022	694.521	695.663	706.142	697.139
142.5	733.278	733.078	734.353	742.441	734.079
145.0	769.818	769.210	770.719	778.313	772.436
147.5	807.433	807.466	807.499	814.045	806.892
150.0	840.646	840.446	840.139	849.041	842.289
152.5	873.526	874.601	873.526	881.854	871.642
155.0	903.914	903.514	903.714	913.285	901.530
157.5	930.416	929.841	932.326	942.872	929.674
160.0	954.693	953.384	955.735	968.365	956.677
162.5	977.161	975.785	977.468	989.991	977.434
165.0	995.968	994.899	996.876	1008.130	996.709
167.5	1012.658	1011.723	1013.533	1024.587	1012.558

CANDELA TABULATION - (Cont.)

170.0	1027.338	1025.355	1027.238	1038.793	1025.662
172.5	1038.519	1036.375	1038.419	1049.839	1036.001
175.0	1046.413	1044.162	1046.446	1057.734	1043.595
177.5	1051.249	1048.731	1050.948	1062.302	1048.297
180.0	1053.312	1053.312	1053.312	1053.312	1053.312

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.77	N.A.	7.70
0-30	891.59	N.A.	15.90
0-40	1412.75	N.A.	25.20
0-60	2345.37	N.A.	41.80
0-80	2843.17	N.A.	50.70
0-90	2901.94	N.A.	51.80
10-90	2788.22	N.A.	49.70
20-40	980.98	N.A.	17.50
20-50	1485.57	N.A.	26.50
40-70	1246.58	N.A.	22.20
60-80	497.79	N.A.	8.90
70-80	183.84	N.A.	3.30
80-90	58.77	N.A.	1.00
90-110	238.00	N.A.	4.20
90-120	539.97	N.A.	9.60
90-130	948.37	N.A.	16.90
90-150	1906.69	N.A.	34.00
90-180	2703.42	N.A.	48.20
110-180	2465.42	N.A.	44.00
0-180	5605.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.72
10-20	318.05
20-30	459.82
30-40	521.16
40-50	504.59
50-60	428.03
60-70	313.96
70-80	183.84
80-90	58.77
90-100	59.53
100-110	178.47
110-120	301.97
120-130	408.40
130-140	475.96
140-150	482.37
150-160	416.26
160-170	281.12
170-180	99.35

IES INDOOR REPORT

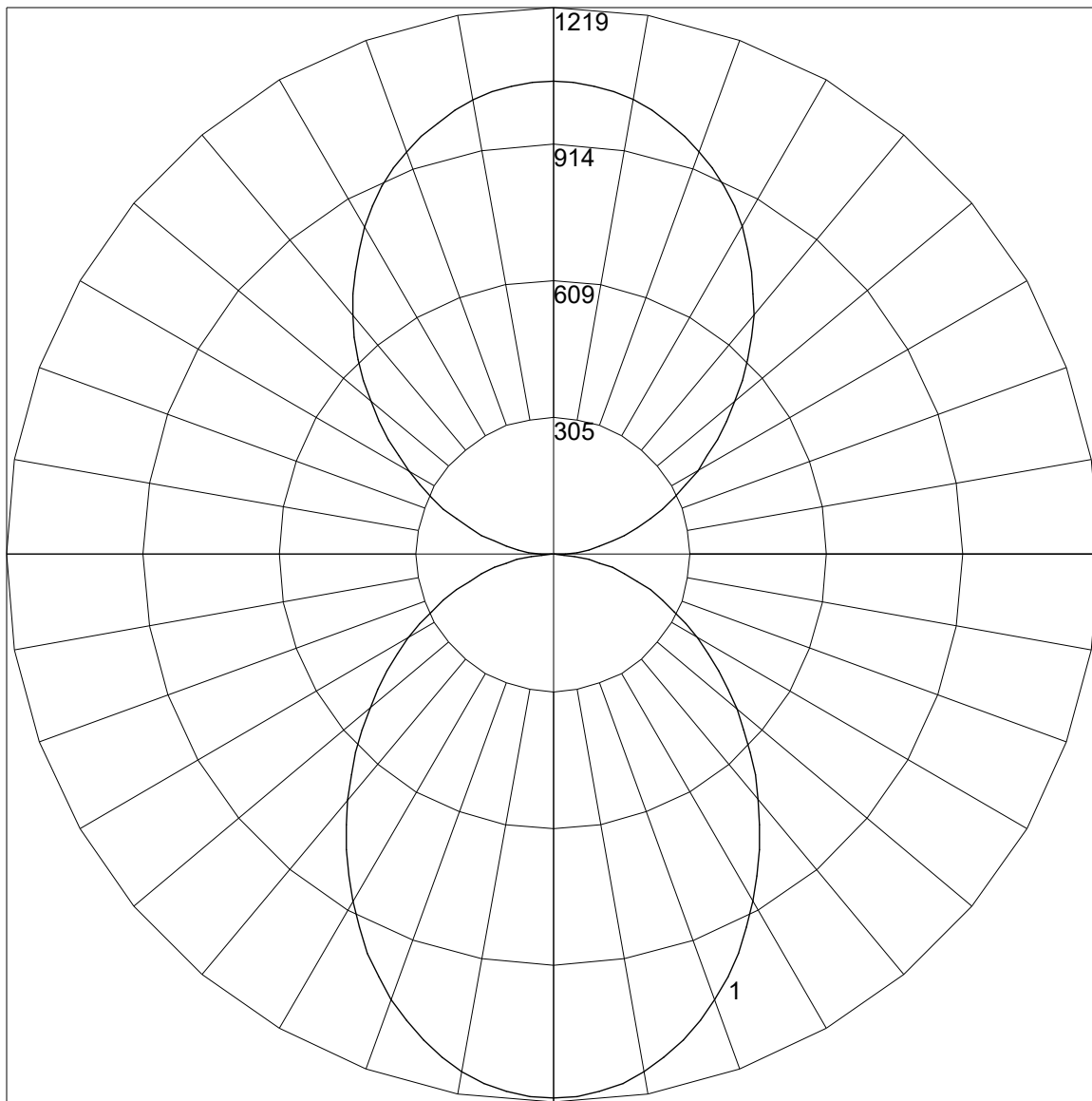
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-B-835-F-F-KPL2008-50.014.IES

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	86	91	87	84	81	74	72	69	62	60	59	51	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	24
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 1218.682 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)