

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-B-H-835-WSO-KPL2008-102.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.009 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-B-H-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]6666
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	50.8
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	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919	2.759	2.292
92.5	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236	41.629	38.706
95.0	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531	73.200	71.387
97.5	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934	102.124	100.735
100.0	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548	130.623	180.225
102.5	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322	235.295	296.249
105.0	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802	406.821	401.142
107.5	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183	572.043	457.191
110.0	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573	653.993	533.938
112.5	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696	720.986	643.969
115.0	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269	838.096	727.488
117.5	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709	981.522	760.085
120.0	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059	1075.030	780.136
122.5	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006	1096.151	797.924
125.0	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036	1093.008	813.803
127.5	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151	1085.438	827.992
130.0	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577	1076.787	841.307
132.5	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245	1068.715	850.452

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CANDELA TABULATION - (Cont.)

135.0	510.676	557.199	672.473	856.341	1060.300	1218.121	1277.687	1218.121	1060.300	856.341
137.5	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492	1047.868	858.449
140.0	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918	1032.331	857.376
142.5	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198	1013.736	853.054
145.0	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178	991.094	846.663
147.5	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653	966.450	837.784
150.0	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505	939.745	828.297
152.5	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063	912.278	817.204
155.0	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153	885.459	806.567
157.5	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060	859.902	794.858
160.0	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141	837.860	783.917
162.5	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760	815.180	773.090
165.0	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408	794.363	762.568
167.5	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661	775.616	753.428
170.0	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962	759.931	746.044
172.5	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209	747.345	739.655
175.0	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616	739.731	735.944
177.5	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418	734.834	733.533
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

**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	2.422	2.131	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919
92.5	35.668	34.302	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236
95.0	68.444	72.806	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531
97.5	113.284	110.571	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934
100.0	187.537	149.293	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548
102.5	239.755	186.817	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322
105.0	293.088	224.161	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802
107.5	349.746	263.024	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183
110.0	402.443	299.523	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573
112.5	440.204	332.850	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696
115.0	477.545	366.594	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269
117.5	512.858	401.181	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709
120.0	546.028	430.793	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059
122.5	574.071	455.546	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006
125.0	600.087	479.381	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036
127.5	622.354	500.002	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151
130.0	641.062	519.820	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577
132.5	657.934	538.758	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245
135.0	672.473	557.199	510.676	557.199	672.473	856.341	1060.300	1218.113	1277.687	1218.121
137.5	683.682	574.378	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492
140.0	694.280	592.053	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918
142.5	703.347	608.580	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198
145.0	710.693	624.611	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178
147.5	717.006	640.259	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653
150.0	721.788	654.414	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505
152.5	725.958	667.958	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063
155.0	728.789	680.430	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153
157.5	730.664	692.252	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060
160.0	731.123	702.505	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141
162.5	731.773	711.611	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760
165.0	731.812	719.607	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408
167.5	731.926	726.340	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661
170.0	732.232	732.385	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962
172.5	732.424	736.785	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209
175.0	732.692	739.655	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616
177.5	732.692	741.491	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

**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-B-H-835-WSO-KPL2008-102.009.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	2.759	2.292	2.422	2.131	2.188
92.5	41.629	38.706	35.668	34.302	28.541
95.0	73.200	71.387	68.444	72.806	57.059
97.5	102.124	100.735	113.284	110.571	84.299
100.0	130.623	180.225	187.537	149.293	114.309
102.5	235.295	296.249	239.755	186.817	144.970
105.0	406.821	401.142	293.088	224.161	176.464
107.5	572.043	457.191	349.746	263.024	208.610
110.0	653.993	533.938	402.443	299.523	242.713
112.5	720.986	643.969	440.204	332.850	276.832
115.0	838.096	727.488	477.545	366.594	311.602
117.5	981.522	760.085	512.858	401.181	348.001
120.0	1075.030	780.136	546.028	430.793	376.618
122.5	1096.151	797.924	574.071	455.546	403.246
125.0	1093.008	813.803	600.087	479.381	428.191
127.5	1085.438	827.992	622.354	500.002	450.610
130.0	1076.787	841.307	641.062	519.820	471.270
132.5	1068.715	850.452	657.934	538.758	490.935
135.0	1060.300	856.341	672.473	557.199	510.676
137.5	1047.868	858.449	683.682	574.378	529.117
140.0	1032.331	857.376	694.280	592.053	548.629
142.5	1013.736	853.054	703.347	608.580	567.835
145.0	991.094	846.663	710.693	624.611	587.270
147.5	966.450	837.784	717.006	640.259	604.104
150.0	939.745	828.297	721.788	654.414	621.703
152.5	912.278	817.204	725.958	667.958	637.924
155.0	885.459	806.567	728.789	680.430	652.692
157.5	859.902	794.858	730.664	692.252	667.767
160.0	837.860	783.917	731.123	702.505	680.774
162.5	815.180	773.090	731.773	711.611	691.257
165.0	794.363	762.568	731.812	719.607	701.893
167.5	775.616	753.428	731.926	726.340	710.923

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-H-835-WSO-KPL2008-102.009.IES****CANDELA TABULATION - (Cont.)**

170.0	759.931	746.044	732.232	732.385	718.268
172.5	747.345	739.655	732.424	736.785	724.007
175.0	739.731	735.944	732.692	739.655	727.603
177.5	734.834	733.533	732.692	741.491	729.593
180.0	733.992	733.992	733.992	733.992	733.992

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-H-835-WSO-KPL2008-102.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.52	N.A.	6.60
0-30	913.79	N.A.	13.70
0-40	1447.93	N.A.	21.70
0-60	2403.78	N.A.	36.00
0-80	2913.96	N.A.	43.70
0-90	2974.23	N.A.	44.60
10-90	2857.68	N.A.	42.90
20-40	1005.41	N.A.	15.10
20-50	1522.56	N.A.	22.80
40-70	1277.62	N.A.	19.20
60-80	510.19	N.A.	7.70
70-80	188.41	N.A.	2.80
80-90	60.27	N.A.	0.90
90-110	413.60	N.A.	6.20
90-120	1050.73	N.A.	15.80
90-130	1815.98	N.A.	27.20
90-150	3030.55	N.A.	45.40
90-180	3693.87	N.A.	55.40
110-180	3280.27	N.A.	49.20
0-180	6668.1	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	60.27
90-100	78.64
100-110	334.96
110-120	637.13
120-130	765.24
130-140	677.67
140-150	536.91
150-160	375.19
160-170	217.45
170-180	70.68

IES INDOOR REPORT

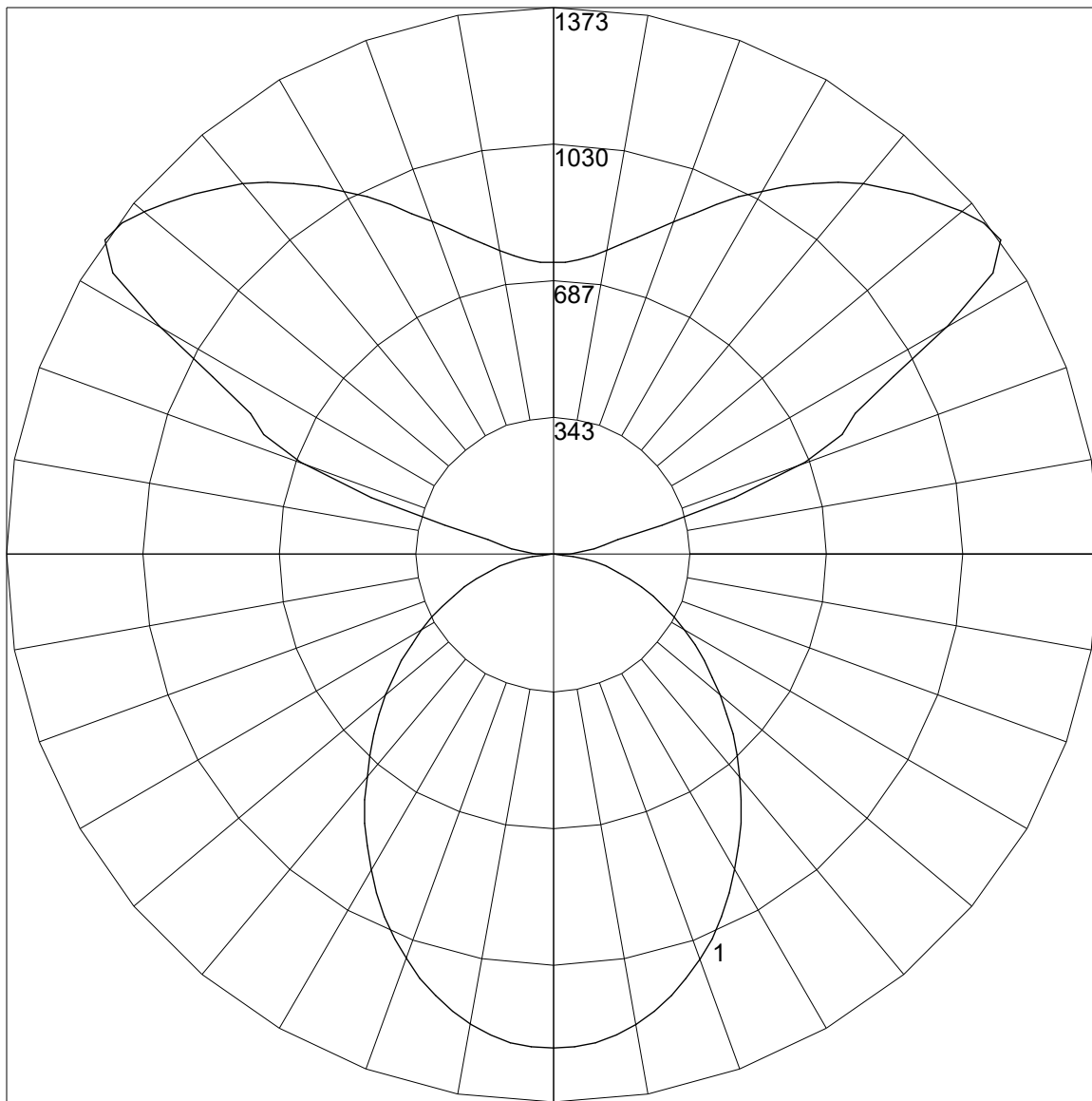
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-H-835-WSO-KPL2008-102.009.IES

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	39	35	33	31	27
4	74	63	55	49	67	58	51	46	49	43	39	40	36	33	32	29	27	23
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1373.485 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270)