

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-B-835-WSO-KPL2008-102.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.010 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-B-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 47.8 WATTS
[ABSOLUTELUMENS]6335
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	47.8
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	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	2.188	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	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

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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	2.422	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	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
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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	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-B-835-WSO-KPL2008-102.010.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-B-835-WSO-KPL2008-102.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	393.13	N.A.	6.20
0-30	811.80	N.A.	12.80
0-40	1286.32	N.A.	20.30
0-60	2135.48	N.A.	33.70
0-80	2588.72	N.A.	40.90
0-90	2642.3	N.A.	41.70
10-90	2538.76	N.A.	40.10
20-40	893.19	N.A.	14.10
20-50	1352.62	N.A.	21.30
40-70	1135.02	N.A.	17.90
60-80	453.24	N.A.	7.20
70-80	167.38	N.A.	2.60
80-90	53.58	N.A.	0.80
90-110	413.60	N.A.	6.50
90-120	1050.73	N.A.	16.60
90-130	1815.98	N.A.	28.70
90-150	3030.55	N.A.	47.80
90-180	3693.87	N.A.	58.30
110-180	3280.27	N.A.	51.80
0-180	6336.17	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	53.58
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

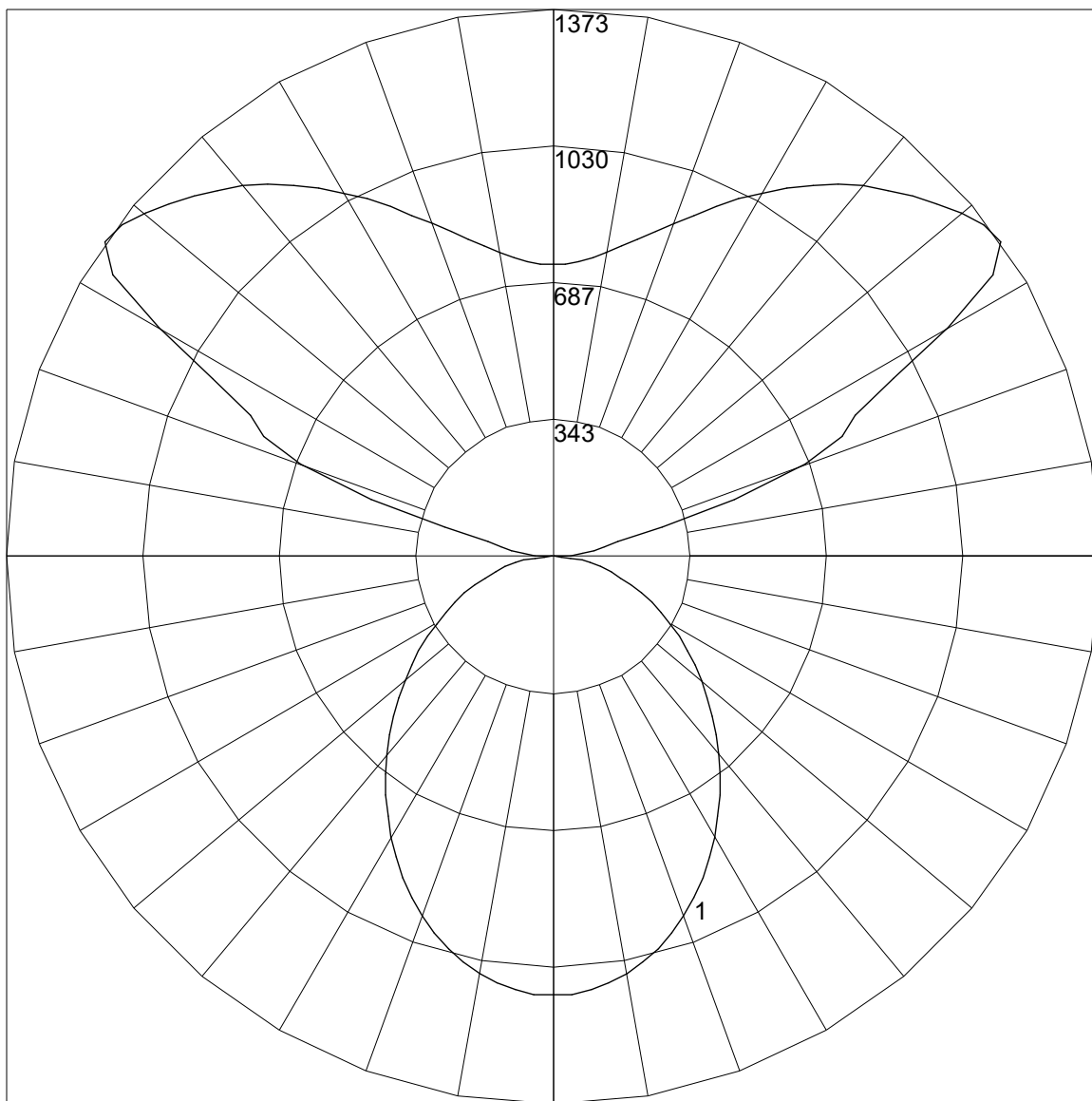
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-B-835-WSO-KPL2008-102.010.IES

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