

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-V-B-835-F-F-KPL2008-50.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.002 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 1/18/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-ID-4ft-V-B-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.24 WATTS
[ABSOLUTELUMENS]7767
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7770
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	58.24
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	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	3.459	3.369	3.828	3.622	4.361	4.615	3.508	4.615	4.361	3.622
92.5	48.466	50.450	50.510	49.089	50.123	47.595	50.389	47.595	50.123	49.089
95.0	101.335	101.625	103.192	102.139	103.300	97.864	96.714	97.864	103.300	102.139
97.5	146.583	146.898	144.273	142.785	142.344	141.884	143.777	141.884	142.344	142.785
100.0	200.601	199.011	194.699	193.853	193.441	191.270	191.167	191.270	193.441	193.853
102.5	253.108	252.654	249.056	247.283	243.946	242.233	242.173	242.233	243.946	247.283
105.0	308.323	308.812	305.384	302.299	299.650	297.570	298.864	297.570	299.650	302.299
107.5	370.214	367.033	362.425	359.359	357.031	355.271	352.809	355.271	357.031	359.359
110.0	430.618	429.118	425.224	420.150	415.361	415.451	414.689	415.451	415.361	420.150
112.5	489.076	494.833	488.725	482.157	478.662	474.017	474.936	474.017	478.662	482.157
115.0	552.152	560.619	552.334	560.075	541.328	535.581	538.121	535.581	541.328	560.075
117.5	622.789	627.446	617.226	615.229	607.791	601.925	604.404	601.925	607.791	615.229
120.0	689.435	695.603	686.895	683.448	675.283	669.478	668.631	669.478	675.283	683.448
122.5	762.007	764.366	757.834	752.209	741.082	741.022	734.067	741.022	741.082	752.209
125.0	831.072	837.300	830.830	824.842	809.360	811.296	805.066	811.296	809.360	824.842
127.5	903.885	909.208	900.619	892.576	883.444	882.415	877.638	882.415	883.444	892.576
130.0	973.554	981.900	974.340	966.842	955.956	954.383	953.476	954.383	955.956	966.842
132.5	1043.949	1055.138	1043.405	1038.869	1027.621	1026.411	1032.096	1026.411	1027.621	1038.869

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CANDELA TABULATION - (Cont.)

135.0	1113.739	1128.073	1114.284	1111.079	1104.184	1101.463	1106.362	1101.463	1104.184	1111.079
137.5	1187.521	1197.258	1181.594	1179.175	1180.566	1172.583	1179.780	1172.583	1180.566	1179.175
140.0	1255.376	1271.588	1252.718	1250.661	1251.563	1246.367	1252.357	1246.367	1251.563	1250.661
142.5	1321.896	1336.954	1322.389	1320.092	1320.453	1315.005	1317.061	1315.005	1320.453	1320.092
145.0	1390.966	1401.550	1387.876	1385.157	1386.252	1384.376	1386.853	1384.376	1386.252	1385.157
147.5	1453.013	1465.894	1454.108	1454.047	1453.987	1448.479	1451.810	1448.479	1453.987	1454.047
150.0	1516.755	1528.915	1512.883	1513.436	1513.797	1509.924	1515.180	1509.924	1513.797	1513.436
152.5	1569.613	1588.002	1573.005	1574.941	1573.005	1568.158	1574.809	1568.158	1573.005	1574.941
155.0	1623.434	1644.601	1627.366	1627.006	1627.727	1619.320	1628.401	1619.320	1627.727	1627.006
157.5	1674.115	1697.880	1678.889	1674.415	1675.450	1676.412	1675.450	1676.412	1675.450	1674.415
160.0	1722.739	1743.786	1721.044	1716.810	1719.167	1711.554	1715.848	1711.554	1719.167	1716.810
162.5	1760.119	1782.729	1760.179	1757.148	1759.626	1750.137	1755.525	1750.137	1759.626	1757.148
165.0	1794.828	1815.394	1795.129	1791.569	1793.493	1785.520	1791.689	1785.520	1793.493	1791.569
167.5	1823.368	1845.028	1825.124	1821.865	1823.548	1817.150	1823.861	1817.150	1823.548	1821.865
170.0	1846.965	1870.610	1849.803	1846.412	1849.984	1842.671	1850.344	1842.671	1849.984	1846.412
172.5	1865.582	1890.502	1869.936	1866.256	1870.116	1862.443	1870.550	1862.443	1870.116	1866.256
175.0	1879.257	1904.718	1884.392	1880.279	1884.332	1877.802	1885.787	1877.802	1884.332	1880.279
177.5	1887.724	1912.944	1892.499	1888.506	1893.040	1886.028	1894.856	1886.028	1893.040	1888.506
180.0	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756

**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

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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	3.828	3.369	3.459	3.369	3.828	3.622	4.361	4.615	3.508	4.615
92.5	50.510	50.450	48.466	50.450	50.510	49.089	50.123	47.595	50.389	47.595
95.0	103.192	101.625	101.335	101.625	103.192	102.139	103.300	97.864	96.714	97.864
97.5	144.273	146.898	146.583	146.898	144.273	142.785	142.344	141.884	143.777	141.884
100.0	194.699	199.011	200.601	199.011	194.699	193.853	193.441	191.270	191.167	191.270
102.5	249.056	252.654	253.108	252.654	249.056	247.283	243.946	242.233	242.173	242.233
105.0	305.384	308.812	308.323	308.812	305.384	302.299	299.650	297.570	298.864	297.570
107.5	362.425	367.033	370.214	367.033	362.425	359.359	357.031	355.271	352.809	355.271
110.0	425.224	429.118	430.618	429.118	425.224	420.150	415.361	415.451	414.689	415.451
112.5	488.725	494.833	489.076	494.833	488.725	482.157	478.662	474.017	474.936	474.017
115.0	552.334	560.619	552.152	560.619	552.334	560.075	541.328	535.581	538.121	535.581
117.5	617.226	627.446	622.789	627.446	617.226	615.229	607.791	601.925	604.404	601.925
120.0	686.895	695.603	689.435	695.603	686.895	683.448	675.283	669.478	668.631	669.478
122.5	757.834	764.366	762.007	764.366	757.834	752.209	741.082	741.022	734.067	741.022
125.0	830.830	837.300	831.072	837.300	830.830	824.842	809.360	811.296	805.066	811.296
127.5	900.619	909.208	903.885	909.208	900.619	892.576	883.444	882.415	877.638	882.415
130.0	974.340	981.900	973.554	981.900	974.340	966.842	955.956	954.383	953.476	954.383
132.5	1043.405	1055.138	1043.949	1055.138	1043.405	1038.869	1027.621	1026.411	1032.096	1026.411
135.0	1114.284	1128.073	1113.739	1128.073	1114.284	1111.079	1104.184	1101.463	1106.362	1101.463
137.5	1181.594	1197.258	1187.521	1197.258	1181.594	1179.175	1180.566	1172.583	1179.780	1172.583
140.0	1252.718	1271.588	1255.376	1271.588	1252.718	1250.661	1251.563	1246.367	1252.357	1246.367
142.5	1322.389	1336.954	1321.896	1336.954	1322.389	1320.092	1320.453	1315.005	1317.061	1315.005
145.0	1387.876	1401.550	1390.966	1401.550	1387.876	1385.157	1386.252	1384.376	1386.853	1384.376
147.5	1454.108	1465.894	1453.013	1465.894	1454.108	1454.047	1453.987	1448.479	1451.810	1448.479
150.0	1512.883	1528.915	1516.755	1528.915	1512.883	1513.436	1513.797	1509.924	1515.180	1509.924
152.5	1573.005	1588.002	1569.613	1588.002	1573.005	1574.941	1573.005	1568.158	1574.809	1568.158
155.0	1627.366	1644.601	1623.434	1644.601	1627.366	1627.006	1627.727	1619.320	1628.401	1619.320
157.5	1678.889	1697.880	1674.115	1697.880	1678.889	1674.415	1675.450	1676.412	1675.450	1676.412
160.0	1721.044	1743.786	1722.739	1743.786	1721.044	1716.810	1719.167	1711.554	1715.848	1711.554
162.5	1760.179	1782.729	1760.119	1782.729	1760.179	1757.148	1759.626	1750.137	1755.525	1750.137
165.0	1795.129	1815.394	1794.828	1815.394	1795.129	1791.569	1793.493	1785.520	1791.689	1785.520
167.5	1825.124	1845.028	1823.368	1845.028	1825.124	1821.865	1823.548	1817.150	1823.861	1817.150
170.0	1849.803	1870.610	1846.965	1870.610	1849.803	1846.412	1849.984	1842.671	1850.344	1842.671
172.5	1869.936	1890.502	1865.582	1890.502	1869.936	1866.256	1870.116	1862.443	1870.550	1862.443
175.0	1884.392	1904.718	1879.257	1904.718	1884.392	1880.279	1884.332	1877.802	1885.787	1877.802
177.5	1892.499	1912.944	1887.724	1912.944	1892.499	1888.506	1893.040	1886.028	1894.856	1886.028
180.0	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756	1896.756

**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	4.361	3.622	3.828	3.369	3.459
92.5	50.123	49.089	50.510	50.450	48.466
95.0	103.300	102.139	103.192	101.625	101.335
97.5	142.344	142.785	144.273	146.898	146.583
100.0	193.441	193.853	194.699	199.011	200.601
102.5	243.946	247.283	249.056	252.654	253.108
105.0	299.650	302.299	305.384	308.812	308.323
107.5	357.031	359.359	362.425	367.033	370.214
110.0	415.361	420.150	425.224	429.118	430.618
112.5	478.662	482.157	488.725	494.833	489.076
115.0	541.328	560.075	552.334	560.619	552.152
117.5	607.791	615.229	617.226	627.446	622.789
120.0	675.283	683.448	686.895	695.603	689.435
122.5	741.082	752.209	757.834	764.366	762.007
125.0	809.360	824.842	830.830	837.300	831.072
127.5	883.444	892.576	900.619	909.208	903.885
130.0	955.956	966.842	974.340	981.900	973.554
132.5	1027.621	1038.869	1043.405	1055.138	1043.949
135.0	1104.184	1111.079	1114.284	1128.073	1113.739
137.5	1180.566	1179.175	1181.594	1197.258	1187.521
140.0	1251.563	1250.661	1252.718	1271.588	1255.376
142.5	1320.453	1320.092	1322.389	1336.954	1321.896
145.0	1386.252	1385.157	1387.876	1401.550	1390.966
147.5	1453.987	1454.047	1454.108	1465.894	1453.013
150.0	1513.797	1513.436	1512.883	1528.915	1516.755
152.5	1573.005	1574.941	1573.005	1588.002	1569.613
155.0	1627.727	1627.006	1627.366	1644.601	1623.434
157.5	1675.450	1674.415	1678.889	1697.880	1674.115
160.0	1719.167	1716.810	1721.044	1743.786	1722.739
162.5	1759.626	1757.148	1760.179	1782.729	1760.119
165.0	1793.493	1791.569	1795.129	1815.394	1794.828
167.5	1823.548	1821.865	1825.124	1845.028	1823.368

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-B-835-F-F-KPL2008-50.002.IES

CANDELA TABULATION - (Cont.)

170.0	1849.984	1846.412	1849.803	1870.610	1846.965
172.5	1870.116	1866.256	1869.936	1890.502	1865.582
175.0	1884.332	1880.279	1884.392	1904.718	1879.257
177.5	1893.040	1888.506	1892.499	1912.944	1887.724
180.0	1896.756	1896.756	1896.756	1896.756	1896.756

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-B-835-F-F-KPL2008-50.002.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.77	N.A.	5.60
0-30	891.59	N.A.	11.50
0-40	1412.75	N.A.	18.20
0-60	2345.37	N.A.	30.20
0-80	2843.17	N.A.	36.60
0-90	2902.18	N.A.	37.30
10-90	2788.45	N.A.	35.90
20-40	980.98	N.A.	12.60
20-50	1485.57	N.A.	19.10
40-70	1246.58	N.A.	16.00
60-80	497.79	N.A.	6.40
70-80	183.84	N.A.	2.40
80-90	59.01	N.A.	0.80
90-110	428.58	N.A.	5.50
90-120	972.35	N.A.	12.50
90-130	1707.78	N.A.	22.00
90-150	3433.49	N.A.	44.20
90-180	4868.2	N.A.	62.70
110-180	4439.62	N.A.	57.10
0-180	7770.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

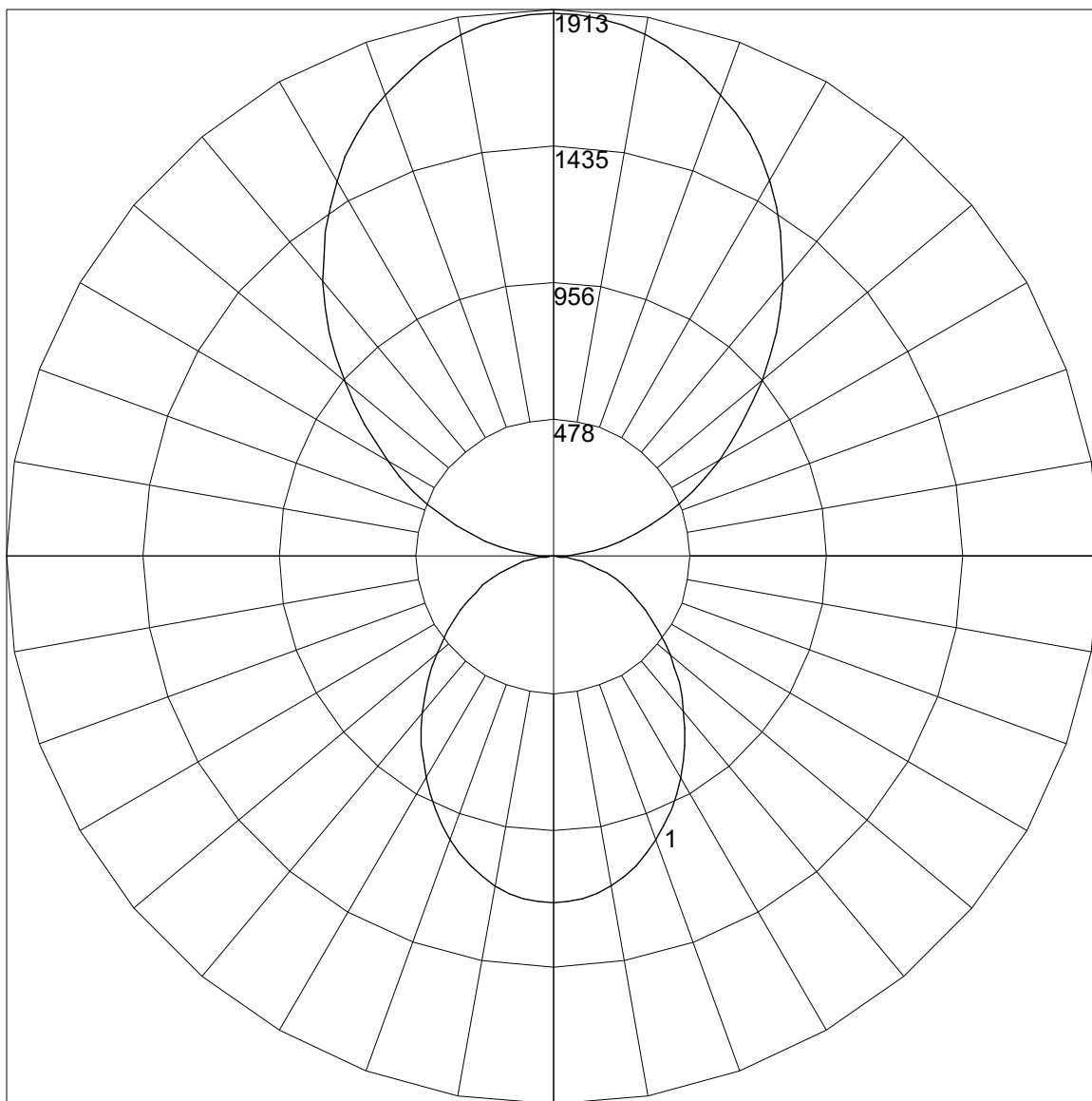
Zone	Lumens
0-10	113.72
10-20	318.05
20-30	459.82
30-40	521.16
40-50	504.59
50-60	428.03
60-70	313.96
70-80	183.84
80-90	59.01
90-100	107.20
100-110	321.38
110-120	543.78
120-130	735.42
130-140	857.08
140-150	868.63
150-160	749.59
160-170	506.23
170-180	178.90

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	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	82	79	76	67	65	63	53	51	50	39	38	38	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

POLAR GRAPH



Maximum Candela = 1912.944 Located At Horizontal Angle = 15, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)