

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-H-835-F-F-KPL2008-50.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.001 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-H-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.24 WATTS
[ABSOLUTELUMENS]8132
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	61.24
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	11788	11250	10703
55	10724	10104	9586
65	9685	9101	8609
75	8642	8052	7770
85	7768	7290	6830

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	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1351.496	1371.795	1355.146	1355.898	1357.084	1355.099	1359.068	1355.099	1357.084	1355.898
5.0	1344.978	1364.891	1348.195	1348.430	1348.524	1346.586	1350.368	1346.586	1348.524	1348.430
7.5	1335.045	1353.350	1336.362	1335.280	1334.998	1332.393	1335.704	1332.393	1334.998	1335.280
10.0	1326.053	1344.639	1323.269	1318.302	1316.261	1311.916	1315.368	1311.916	1316.261	1318.302
12.5	1300.609	1320.428	1301.268	1301.127	1291.956	1287.366	1289.068	1287.366	1291.956	1301.127
15.0	1276.107	1293.611	1273.407	1273.172	1265.656	1257.802	1259.082	1257.802	1265.656	1273.172
17.5	1248.105	1264.048	1243.138	1239.498	1236.046	1223.131	1224.646	1223.131	1236.046	1239.498
20.0	1217.365	1232.124	1211.073	1202.513	1198.591	1186.956	1186.805	1186.956	1198.591	1202.513
22.5	1183.588	1194.424	1174.511	1162.641	1154.834	1146.603	1145.277	1146.603	1154.834	1162.641
25.0	1151.335	1159.142	1134.639	1121.865	1109.807	1101.341	1101.388	1101.341	1109.807	1121.865
27.5	1103.853	1115.149	1093.534	1080.008	1065.777	1055.844	1052.100	1055.844	1065.777	1080.008
30.0	1061.657	1064.827	1047.520	1033.984	1017.476	1007.026	1003.951	1007.026	1017.476	1033.984
32.5	1015.783	1024.484	998.749	987.923	969.092	957.691	953.252	957.691	969.092	987.923
35.0	971.029	976.946	953.534	936.554	927.567	906.377	904.911	906.377	927.567	936.554
37.5	924.114	926.054	904.249	886.560	868.396	856.099	852.599	856.099	868.396	886.560
40.0	871.424	875.018	853.498	835.004	817.646	805.821	800.571	805.821	817.646	835.004
42.5	821.855	822.848	802.273	785.767	767.556	755.732	750.435	755.732	767.556	785.767
45.0	771.814	773.422	751.759	736.577	716.002	704.461	700.771	704.461	716.002	736.577
47.5	720.353	720.353	701.813	685.305	665.818	654.088	650.541	654.088	665.818	685.305
50.0	668.609	670.311	649.737	634.270	615.162	605.513	601.256	605.513	615.162	634.270
52.5	617.337	619.182	599.695	585.033	568.289	557.363	554.714	557.363	568.289	585.033
55.0	569.567	568.667	552.208	536.647	522.410	514.464	509.119	514.464	522.410	536.647
57.5	521.228	517.397	502.497	489.916	476.152	466.692	463.429	466.692	476.152	489.916
60.0	472.038	468.774	456.760	442.334	430.415	422.657	419.063	422.657	430.415	442.334
62.5	425.495	422.468	410.833	397.041	383.489	378.524	376.523	378.524	383.489	397.041
65.0	378.991	375.761	366.619	356.156	343.750	339.659	336.906	339.659	343.750	356.156
67.5	333.151	331.258	322.878	312.159	303.315	299.342	297.488	299.342	303.315	312.159
70.0	291.206	288.170	278.818	272.032	265.391	260.358	259.271	260.358	265.391	272.032
72.5	247.020	239.622	238.885	231.615	225.405	222.075	221.422	222.075	225.405	231.615
75.0	207.110	205.161	199.859	192.968	190.446	185.873	186.204	185.873	190.446	192.968
77.5	169.990	167.100	162.110	157.058	154.348	151.042	151.279	151.042	154.348	157.058
80.0	132.549	130.306	126.154	123.907	120.526	118.799	117.801	118.799	120.526	123.907
82.5	96.753	95.675	94.005	91.735	90.326	89.158	92.213	89.158	90.326	91.735
85.0	62.689	61.578	59.383	58.834	57.827	56.663	55.122	56.663	57.827	58.834
87.5	32.759	30.413	29.055	28.029	26.544	26.667	26.969	26.667	26.544	28.029
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	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1355.146	1371.795	1351.496	1371.795	1355.146	1355.898	1357.084	1355.099	1359.068	1355.099
5.0	1348.195	1364.891	1344.978	1364.891	1348.195	1348.430	1348.524	1346.586	1350.368	1346.586
7.5	1336.362	1353.350	1335.045	1353.350	1336.362	1335.280	1334.998	1332.393	1335.704	1332.393
10.0	1323.269	1344.639	1326.053	1344.639	1323.269	1318.302	1316.261	1311.916	1315.368	1311.916
12.5	1301.268	1320.428	1300.609	1320.428	1301.268	1301.127	1291.956	1287.366	1289.068	1287.366
15.0	1273.407	1293.611	1276.107	1293.611	1273.407	1273.172	1265.656	1257.802	1259.082	1257.802
17.5	1243.138	1264.048	1248.105	1264.048	1243.138	1239.498	1236.046	1223.131	1224.646	1223.131
20.0	1211.073	1232.124	1217.365	1232.124	1211.073	1202.513	1198.591	1186.956	1186.805	1186.956
22.5	1174.511	1194.424	1183.588	1194.424	1174.511	1162.641	1154.834	1146.603	1145.277	1146.603
25.0	1134.639	1159.142	1151.335	1159.142	1134.639	1121.865	1109.807	1101.341	1101.388	1101.341
27.5	1093.534	1115.149	1103.853	1115.149	1093.534	1080.008	1065.777	1055.844	1052.100	1055.844
30.0	1047.520	1064.827	1061.657	1064.827	1047.520	1033.984	1017.476	1007.026	1003.951	1007.026
32.5	998.749	1024.484	1015.783	1024.484	998.749	987.923	969.092	957.691	953.252	957.691
35.0	953.534	976.946	971.029	976.946	953.534	936.554	927.567	906.377	904.911	906.377
37.5	904.249	926.054	924.114	926.054	904.249	886.560	868.396	856.099	852.599	856.099
40.0	853.498	875.018	871.424	875.018	853.498	835.004	817.646	805.821	800.571	805.821
42.5	802.273	822.848	821.855	822.848	802.273	785.767	767.556	755.732	750.435	755.732
45.0	751.759	773.422	771.814	773.422	751.759	736.577	716.002	704.461	700.771	704.461
47.5	701.813	720.353	720.353	720.353	701.813	685.305	665.818	654.088	650.541	654.088
50.0	649.737	670.311	668.609	670.311	649.737	634.270	615.162	605.513	601.256	605.513
52.5	599.695	619.182	617.337	619.182	599.695	585.033	568.289	557.363	554.714	557.363
55.0	552.208	568.667	569.567	568.667	552.208	536.647	522.410	514.464	509.119	514.464
57.5	502.497	517.397	521.228	517.397	502.497	489.916	476.152	466.692	463.429	466.692
60.0	456.760	468.774	472.038	468.774	456.760	442.334	430.415	422.657	419.063	422.657
62.5	410.833	422.468	425.495	422.468	410.833	397.041	383.489	378.524	376.523	378.524
65.0	366.619	375.761	378.991	375.761	366.619	356.156	343.750	339.659	336.906	339.659
67.5	322.878	331.258	333.151	331.258	322.878	312.159	303.315	299.342	297.488	299.342
70.0	278.818	288.170	291.206	288.170	278.818	272.032	265.391	260.358	259.271	260.358
72.5	238.885	239.622	247.020	239.622	238.885	231.615	225.405	222.075	221.422	222.075
75.0	199.859	205.161	207.110	205.161	199.859	192.968	190.446	185.873	186.204	185.873
77.5	162.110	167.100	169.990	167.100	162.110	157.058	154.348	151.042	151.279	151.042
80.0	126.154	130.306	132.549	130.306	126.154	123.907	120.526	118.799	117.801	118.799

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CANDELA TABULATION - (Cont.)

82.5	94.005	95.675	96.753	95.675	94.005	91.735	90.326	89.158	92.213	89.158
85.0	59.383	61.578	62.689	61.578	59.383	58.834	57.827	56.663	55.122	56.663
87.5	29.055	30.413	32.759	30.413	29.055	28.029	26.544	26.667	26.969	26.667
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	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1357.084	1355.898	1355.146	1371.795	1351.496
5.0	1348.524	1348.430	1348.195	1364.891	1344.978
7.5	1334.998	1335.280	1336.362	1353.350	1335.045
10.0	1316.261	1318.302	1323.269	1344.639	1326.053
12.5	1291.956	1301.127	1301.268	1320.428	1300.609
15.0	1265.656	1273.172	1273.407	1293.611	1276.107
17.5	1236.046	1239.498	1243.138	1264.048	1248.105
20.0	1198.591	1202.513	1211.073	1232.124	1217.365
22.5	1154.834	1162.641	1174.511	1194.424	1183.588
25.0	1109.807	1121.865	1134.639	1159.142	1151.335
27.5	1065.777	1080.008	1093.534	1115.149	1103.853

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-H-835-F-F-KPL2008-50.001.IES****CANDELA TABULATION - (Cont.)**

30.0	1017.476	1033.984	1047.520	1064.827	1061.657
32.5	969.092	987.923	998.749	1024.484	1015.783
35.0	927.567	936.554	953.534	976.946	971.029
37.5	868.396	886.560	904.249	926.054	924.114
40.0	817.646	835.004	853.498	875.018	871.424
42.5	767.556	785.767	802.273	822.848	821.855
45.0	716.002	736.577	751.759	773.422	771.814
47.5	665.818	685.305	701.813	720.353	720.353
50.0	615.162	634.270	649.737	670.311	668.609
52.5	568.289	585.033	599.695	619.182	617.337
55.0	522.410	536.647	552.208	568.667	569.567
57.5	476.152	489.916	502.497	517.397	521.228
60.0	430.415	442.334	456.760	468.774	472.038
62.5	383.489	397.041	410.833	422.468	425.495
65.0	343.750	356.156	366.619	375.761	378.991
67.5	303.315	312.159	322.878	331.258	333.151
70.0	265.391	272.032	278.818	288.170	291.206
72.5	225.405	231.615	238.885	239.622	247.020
75.0	190.446	192.968	199.859	205.161	207.110
77.5	154.348	157.058	162.110	167.100	169.990
80.0	120.526	123.907	126.154	130.306	132.549
82.5	90.326	91.735	94.005	95.675	96.753
85.0	57.827	58.834	59.383	61.578	62.689
87.5	26.544	28.029	29.055	30.413	32.759
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-H-835-F-F-KPL2008-50.001.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-H-835-F-F-KPL2008-50.001.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.02	N.A.	6.00
0-30	1003.61	N.A.	12.30
0-40	1590.25	N.A.	19.50
0-60	2640.04	N.A.	32.50
0-80	3200.38	N.A.	39.30
0-90	3266.73	N.A.	40.20
10-90	3138.72	N.A.	38.60
20-40	1104.23	N.A.	13.60
20-50	1672.22	N.A.	20.60
40-70	1403.2	N.A.	17.20
60-80	560.33	N.A.	6.90
70-80	206.93	N.A.	2.50
80-90	66.36	N.A.	0.80
90-110	428.58	N.A.	5.30
90-120	972.35	N.A.	12.00
90-130	1707.78	N.A.	21.00
90-150	3433.49	N.A.	42.20
90-180	4868.2	N.A.	59.80
110-180	4439.62	N.A.	54.60
0-180	8134.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.01
10-20	358.01
20-30	517.59
30-40	586.64
40-50	567.99
50-60	481.81
60-70	353.40
70-80	206.93
80-90	66.36
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

IES INDOOR REPORT

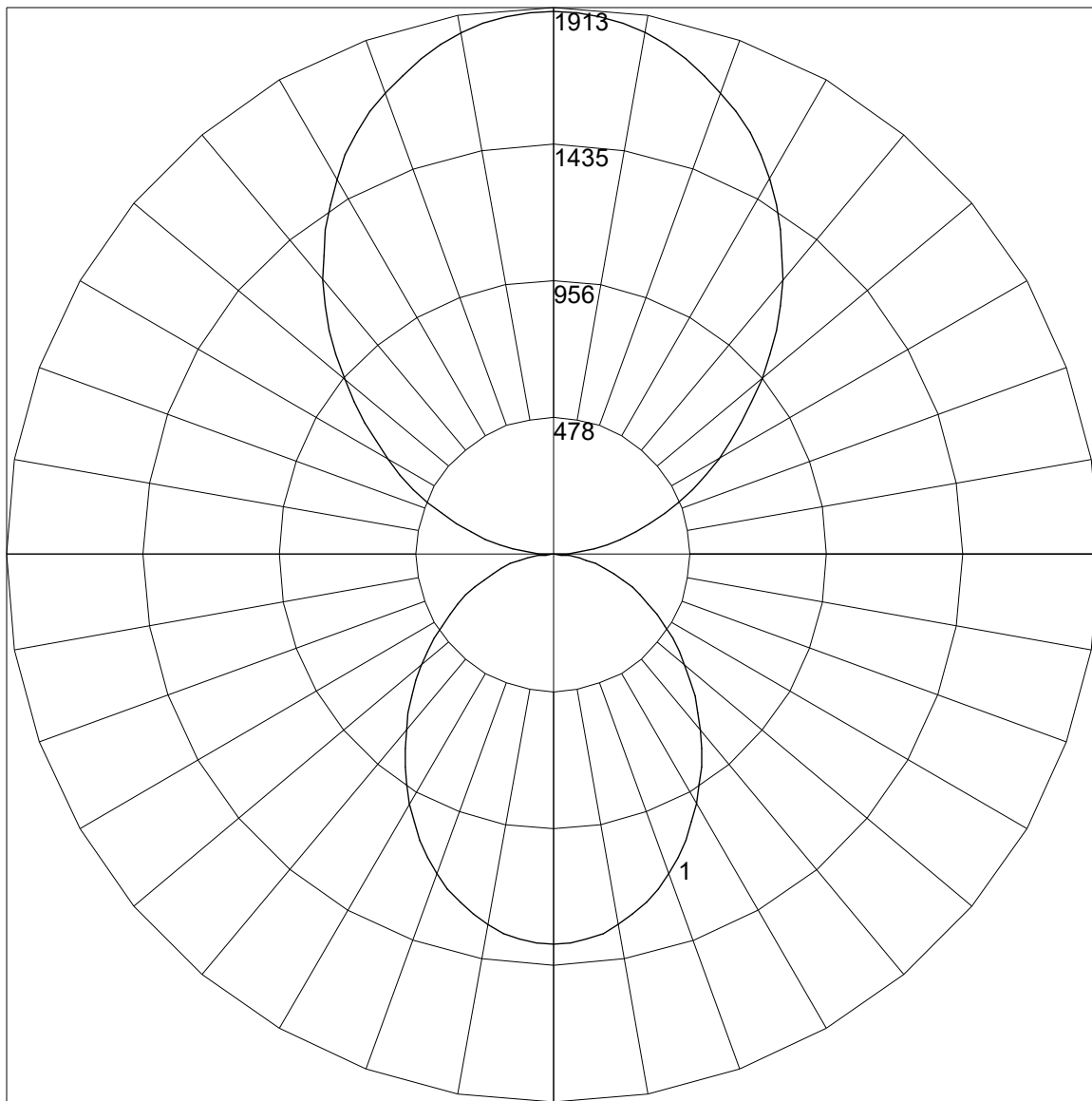
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-H-835-F-F-KPL2008-50.001.IES

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	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	28
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

POLAR GRAPH



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