

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-WSO-KPL2008-102.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.001 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-V-H-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.3 WATTS
[ABSOLUTELUMENS]8289
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	61.3
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	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	3.149	3.067	3.486	3.298	3.971	4.202	3.194	4.202	3.971	3.298
92.5	41.078	49.370	51.336	55.709	59.916	57.911	64.536	57.911	59.916	55.709
95.0	82.123	104.788	98.510	102.744	105.355	104.391	106.362	104.391	105.355	102.744
97.5	121.329	159.142	163.046	144.985	146.983	149.589	150.513	149.589	146.983	144.985
100.0	164.522	214.872	269.915	259.392	188.001	186.454	191.272	186.454	188.001	259.392
102.5	208.650	268.879	345.072	426.381	338.653	266.728	240.753	266.728	338.653	426.381
105.0	253.979	322.628	421.832	577.350	585.524	463.159	407.533	463.159	585.524	577.350
107.5	300.245	378.562	503.377	658.019	823.323	724.214	689.045	724.214	823.323	658.019
110.0	349.328	431.094	579.223	768.480	941.271	982.405	973.429	982.405	941.271	768.480
112.5	398.435	479.060	633.571	926.844	1037.691	1104.919	1130.697	1104.919	1037.691	926.844
115.0	448.478	527.627	687.314	1047.050	1206.245	1210.811	1208.008	1210.811	1206.245	1047.050
117.5	500.866	577.406	738.139	1093.966	1412.673	1414.381	1388.177	1414.381	1412.673	1093.966
120.0	542.054	620.026	785.880	1122.823	1547.255	1663.878	1649.621	1663.878	1547.255	1122.823
122.5	580.379	655.652	826.242	1148.426	1577.654	1836.513	1888.824	1836.513	1577.654	1148.426
125.0	616.282	689.958	863.686	1171.280	1573.131	1879.735	1976.811	1879.735	1573.131	1171.280
127.5	648.548	719.637	895.734	1191.702	1562.235	1859.750	1964.591	1859.750	1562.235	1191.702
130.0	678.283	748.160	922.660	1210.866	1549.785	1827.260	1926.483	1827.260	1549.785	1210.866
132.5	706.587	775.417	946.943	1224.028	1538.166	1792.240	1883.754	1792.240	1538.166	1224.028

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CANDELA TABULATION - (Cont.)

135.0	735.000	801.959	967.868	1232.504	1526.055	1753.202	1838.933	1753.202	1526.055	1232.504
137.5	761.541	826.683	984.001	1235.537	1508.162	1714.875	1792.678	1714.875	1508.162	1235.537
140.0	789.624	852.122	999.254	1233.993	1485.801	1672.310	1745.876	1672.310	1485.801	1233.993
142.5	817.266	875.910	1012.304	1227.773	1459.038	1626.657	1692.678	1626.657	1459.038	1227.773
145.0	845.239	898.982	1022.877	1218.575	1426.449	1579.132	1636.622	1579.132	1426.449	1218.575
147.5	869.468	921.504	1031.963	1205.796	1390.980	1525.124	1577.490	1525.124	1390.980	1205.796
150.0	894.797	941.877	1038.846	1192.140	1352.544	1470.218	1515.148	1470.218	1352.544	1192.140
152.5	918.144	961.370	1044.848	1176.174	1313.012	1413.451	1454.362	1413.451	1313.012	1176.174
155.0	939.399	979.321	1048.923	1160.866	1274.412	1357.450	1393.017	1357.450	1274.412	1160.866
157.5	961.095	996.336	1051.621	1144.013	1237.629	1298.306	1333.665	1298.306	1237.629	1144.013
160.0	979.816	1011.093	1052.281	1128.266	1205.905	1256.683	1278.266	1256.683	1205.905	1128.266
162.5	994.904	1024.199	1053.218	1112.683	1173.262	1212.957	1229.701	1212.957	1173.262	1112.683
165.0	1010.212	1035.707	1053.272	1097.539	1143.301	1173.590	1185.756	1173.590	1143.301	1097.539
167.5	1023.208	1045.398	1053.438	1084.384	1116.319	1136.534	1148.316	1136.534	1116.319	1084.384
170.0	1033.779	1054.098	1053.878	1073.756	1093.744	1105.303	1112.300	1105.303	1093.744	1073.756
172.5	1042.039	1060.431	1054.154	1064.561	1075.629	1081.191	1085.871	1081.191	1075.629	1064.561
175.0	1047.216	1064.561	1054.539	1059.220	1064.671	1064.505	1067.589	1064.505	1064.671	1059.220
177.5	1050.079	1067.204	1054.539	1055.750	1057.623	1055.585	1056.907	1055.585	1057.623	1055.750
180.0	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411

**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

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	3.486	3.067	3.149	3.067	3.486	3.298	3.971	4.202	3.194	4.202
92.5	51.336	49.370	41.078	49.370	51.336	55.709	59.916	57.911	64.536	57.911
95.0	98.510	104.788	82.123	104.788	98.510	102.744	105.355	104.391	106.362	104.391
97.5	163.046	159.142	121.329	159.142	163.046	144.985	146.983	149.589	150.513	149.589
100.0	269.915	214.872	164.522	214.872	269.915	259.392	188.001	186.454	191.272	186.454
102.5	345.072	268.879	208.650	268.879	345.072	426.381	338.653	266.728	240.753	266.728
105.0	421.832	322.628	253.979	322.628	421.832	577.350	585.524	463.159	407.533	463.159
107.5	503.377	378.562	300.245	378.562	503.377	658.019	823.323	724.214	689.045	724.214
110.0	579.223	431.094	349.328	431.094	579.223	768.480	941.271	982.405	973.429	982.405
112.5	633.571	479.060	398.435	479.060	633.571	926.844	1037.691	1104.919	1130.697	1104.919
115.0	687.314	527.627	448.478	527.627	687.314	1047.050	1206.245	1210.811	1208.008	1210.811
117.5	738.139	577.406	500.866	577.406	738.139	1093.966	1412.673	1414.381	1388.177	1414.381
120.0	785.880	620.026	542.054	620.026	785.880	1122.823	1547.255	1663.878	1649.621	1663.878
122.5	826.242	655.652	580.379	655.652	826.242	1148.426	1577.654	1836.513	1888.824	1836.513
125.0	863.686	689.958	616.282	689.958	863.686	1171.280	1573.131	1879.735	1976.811	1879.735
127.5	895.734	719.637	648.548	719.637	895.734	1191.702	1562.235	1859.750	1964.591	1859.750
130.0	922.660	748.160	678.283	748.160	922.660	1210.866	1549.785	1827.260	1926.483	1827.260
132.5	946.943	775.417	706.587	775.417	946.943	1224.028	1538.166	1792.240	1883.754	1792.240
135.0	967.868	801.959	735.000	801.959	967.868	1232.504	1526.055	1753.191	1838.933	1753.202
137.5	984.001	826.683	761.541	826.683	984.001	1235.537	1508.162	1714.875	1792.678	1714.875
140.0	999.254	852.122	789.624	852.122	999.254	1233.993	1485.801	1672.310	1745.876	1672.310
142.5	1012.304	875.910	817.266	875.910	1012.304	1227.773	1459.038	1626.657	1692.678	1626.657
145.0	1022.877	898.982	845.239	898.982	1022.877	1218.575	1426.449	1579.132	1636.622	1579.132
147.5	1031.963	921.504	869.468	921.504	1031.963	1205.796	1390.980	1525.124	1577.490	1525.124
150.0	1038.846	941.877	894.797	941.877	1038.846	1192.140	1352.544	1470.218	1515.148	1470.218
152.5	1044.848	961.370	918.144	961.370	1044.848	1176.174	1313.012	1413.451	1454.362	1413.451
155.0	1048.923	979.321	939.399	979.321	1048.923	1160.866	1274.412	1357.450	1393.017	1357.450
157.5	1051.621	996.336	961.095	996.336	1051.621	1144.013	1237.629	1298.306	1333.665	1298.306
160.0	1052.281	1011.093	979.816	1011.093	1052.281	1128.266	1205.905	1256.683	1278.266	1256.683
162.5	1053.218	1024.199	994.904	1024.199	1053.218	1112.683	1173.262	1212.957	1229.701	1212.957
165.0	1053.272	1035.707	1010.212	1035.707	1053.272	1097.539	1143.301	1173.590	1185.756	1173.590
167.5	1053.438	1045.398	1023.208	1045.398	1053.438	1084.384	1116.319	1136.534	1148.316	1136.534
170.0	1053.878	1054.098	1033.779	1054.098	1053.878	1073.756	1093.744	1105.303	1112.300	1105.303
172.5	1054.154	1060.431	1042.039	1060.431	1054.154	1064.561	1075.629	1081.191	1085.871	1081.191
175.0	1054.539	1064.561	1047.216	1064.561	1054.539	1059.220	1064.671	1064.505	1067.589	1064.505
177.5	1054.539	1067.204	1050.079	1067.204	1054.539	1055.750	1057.623	1055.585	1056.907	1055.585
180.0	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411

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-V-H-835-WSO-KPL2008-102.001.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	3.971	3.298	3.486	3.067	3.149
92.5	59.916	55.709	51.336	49.370	41.078
95.0	105.355	102.744	98.510	104.788	82.123
97.5	146.983	144.985	163.046	159.142	121.329
100.0	188.001	259.392	269.915	214.872	164.522
102.5	338.653	426.381	345.072	268.879	208.650
105.0	585.524	577.350	421.832	322.628	253.979
107.5	823.323	658.019	503.377	378.562	300.245
110.0	941.271	768.480	579.223	431.094	349.328
112.5	1037.691	926.844	633.571	479.060	398.435
115.0	1206.245	1047.050	687.314	527.627	448.478
117.5	1412.673	1093.966	738.139	577.406	500.866
120.0	1547.255	1122.823	785.880	620.026	542.054
122.5	1577.654	1148.426	826.242	655.652	580.379
125.0	1573.131	1171.280	863.686	689.958	616.282
127.5	1562.235	1191.702	895.734	719.637	648.548
130.0	1549.785	1210.866	922.660	748.160	678.283
132.5	1538.166	1224.028	946.943	775.417	706.587
135.0	1526.055	1232.504	967.868	801.959	735.000
137.5	1508.162	1235.537	984.001	826.683	761.541
140.0	1485.801	1233.993	999.254	852.122	789.624
142.5	1459.038	1227.773	1012.304	875.910	817.266
145.0	1426.449	1218.575	1022.877	898.982	845.239
147.5	1390.980	1205.796	1031.963	921.504	869.468
150.0	1352.544	1192.140	1038.846	941.877	894.797
152.5	1313.012	1176.174	1044.848	961.370	918.144
155.0	1274.412	1160.866	1048.923	979.321	939.399
157.5	1237.629	1144.013	1051.621	996.336	961.095
160.0	1205.905	1128.266	1052.281	1011.093	979.816
162.5	1173.262	1112.683	1053.218	1024.199	994.904
165.0	1143.301	1097.539	1053.272	1035.707	1010.212
167.5	1116.319	1084.384	1053.438	1045.398	1023.208

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-H-835-WSO-KPL2008-102.001.IES

CANDELA TABULATION - (Cont.)

170.0	1093.744	1073.756	1053.878	1054.098	1033.779
172.5	1075.629	1064.561	1054.154	1060.431	1042.039
175.0	1064.671	1059.220	1054.539	1064.561	1047.216
177.5	1057.623	1055.750	1054.539	1067.204	1050.079
180.0	1056.411	1056.411	1056.411	1056.411	1056.411

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-H-835-WSO-KPL2008-102.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.52	N.A.	5.30
0-30	913.79	N.A.	11.00
0-40	1447.93	N.A.	17.50
0-60	2403.78	N.A.	29.00
0-80	2913.96	N.A.	35.10
0-90	2974.38	N.A.	35.90
10-90	2857.83	N.A.	34.50
20-40	1005.41	N.A.	12.10
20-50	1522.56	N.A.	18.40
40-70	1277.62	N.A.	15.40
60-80	510.19	N.A.	6.20
70-80	188.41	N.A.	2.30
80-90	60.42	N.A.	0.70
90-110	595.28	N.A.	7.20
90-120	1512.29	N.A.	18.20
90-130	2613.67	N.A.	31.50
90-150	4361.78	N.A.	52.60
90-180	5316.47	N.A.	64.10
110-180	4721.18	N.A.	56.90
0-180	8290.85	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	60.42
90-100	113.19
100-110	482.10
110-120	917.01
120-130	1101.39
130-140	975.34
140-150	772.76
150-160	540.00
160-170	312.97
170-180	101.72

IES INDOOR REPORT

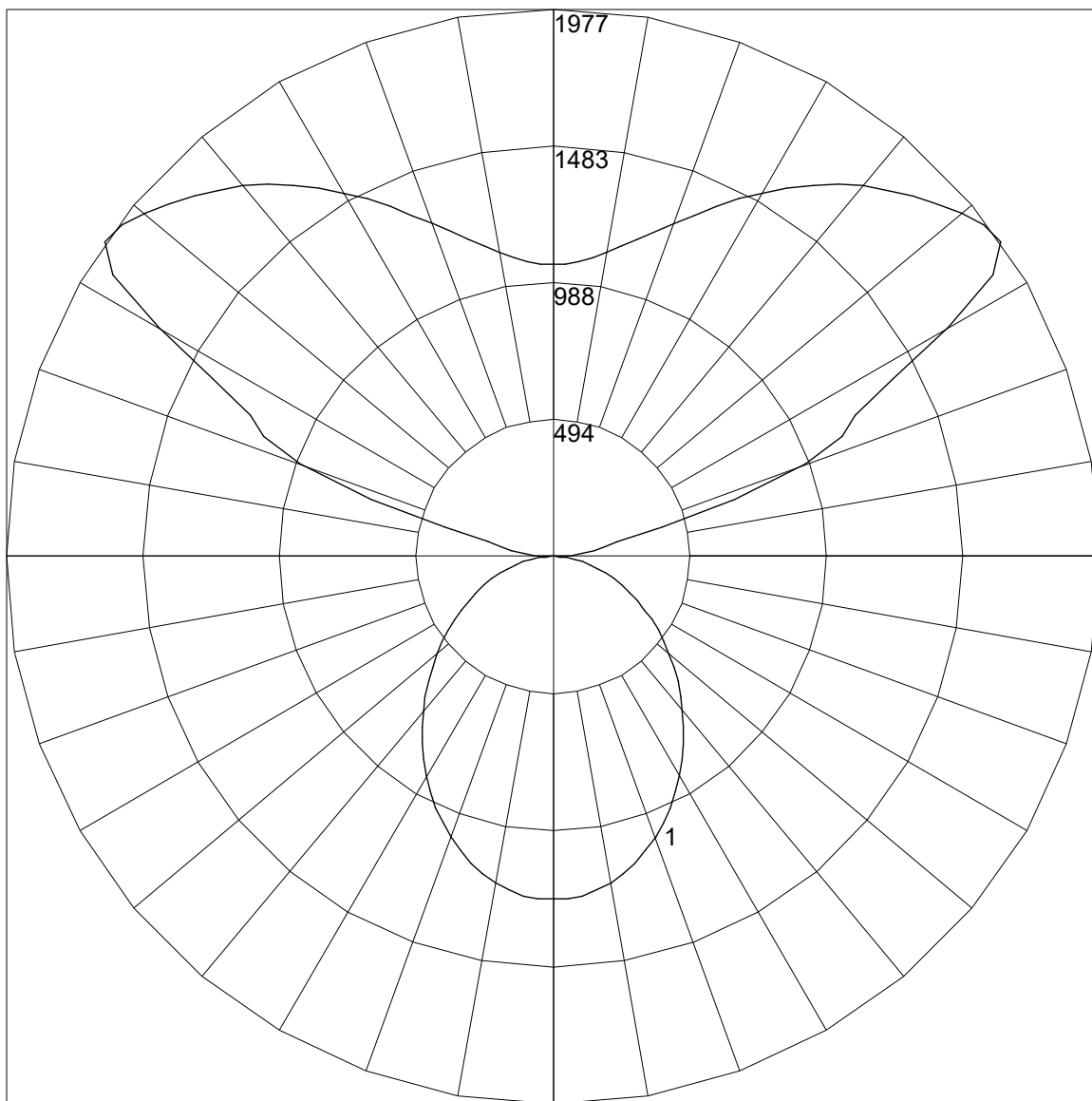
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-H-835-WSO-KPL2008-102.001.IES

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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	52	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	20	18	18	16	14	11
9	48	37	29	24	44	33	27	23	28	23	19	22	19	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	21	17	20	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1976.811 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270)