

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-H-B-835-ASY-F-KPL2008-103.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.006 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUE DATE] 8/22/2024
[TEST DATE] 12/4/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-H-B-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 50.8 WATTS
[ABSOLUTE LUMENS] 6910
[LAMP] Samsung
[BALLAST] Osram
[BALLAST CAT] Oti50 x-2 @700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	50.8
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)	0.25 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9478	9046	8606
55	8623	8125	7708
65	7787	7318	6922
75	6949	6474	6247
85	6246	5862	5492

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	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168
2.5	1086.681	1103.002	1089.615	1090.220	1091.173	1089.577	1092.769	1089.577	1091.173	1090.220
5.0	1081.439	1097.450	1084.026	1084.215	1084.291	1082.733	1085.773	1082.733	1084.291	1084.215
7.5	1073.453	1088.171	1074.512	1073.642	1073.415	1071.320	1073.982	1071.320	1073.415	1073.642
10.0	1066.223	1081.167	1063.984	1059.991	1058.350	1054.855	1057.631	1054.855	1058.350	1059.991
12.5	1045.765	1061.700	1046.294	1046.181	1038.807	1035.116	1036.485	1035.116	1038.807	1046.181
15.0	1026.063	1040.138	1023.892	1023.703	1017.660	1011.345	1012.374	1011.345	1017.660	1023.703
17.5	1003.548	1016.367	999.554	996.628	993.852	983.468	984.685	983.468	993.852	996.628
20.0	978.832	990.698	973.772	966.890	963.736	954.380	954.259	954.380	963.736	966.890
22.5	951.673	960.385	944.374	934.830	928.553	921.935	920.869	921.935	928.553	934.830
25.0	925.739	932.016	912.315	902.044	892.348	885.542	885.579	885.542	892.348	902.044
27.5	887.561	896.644	879.264	868.389	856.946	848.959	845.949	848.959	856.946	868.389
30.0	853.633	856.182	842.266	831.383	818.109	809.707	807.234	809.707	818.109	831.383
32.5	816.748	823.744	803.051	794.346	779.205	770.039	766.469	770.039	779.205	794.346
35.0	780.763	785.520	766.696	753.043	745.817	728.779	727.600	728.779	745.817	753.043
37.5	743.041	744.600	727.068	712.845	698.241	688.353	685.538	688.353	698.241	712.845
40.0	700.675	703.565	686.261	671.391	657.434	647.927	643.705	647.927	657.434	671.391
42.5	660.819	661.617	645.074	631.801	617.159	607.652	603.392	607.652	617.159	631.801
45.0	620.582	621.876	604.457	592.250	575.706	566.427	563.460	566.427	575.706	592.250
47.5	579.205	579.205	564.298	551.024	535.356	525.924	523.072	525.924	535.356	551.024
50.0	537.600	538.969	522.426	509.990	494.625	486.867	483.444	486.867	494.625	509.990
52.5	496.375	497.858	482.189	470.400	456.937	448.152	446.022	448.152	456.937	470.400
55.0	457.964	457.241	444.007	431.495	420.048	413.658	409.361	413.658	420.048	431.495
57.5	419.097	416.017	404.037	393.920	382.853	375.247	372.624	375.247	382.853	393.920
60.0	379.545	376.921	367.261	355.662	346.078	339.841	336.951	339.841	346.078	355.662
62.5	342.123	339.689	330.333	319.244	308.348	304.355	302.746	304.355	308.348	319.244
65.0	304.731	302.134	294.782	286.370	276.394	273.105	270.892	273.105	276.394	286.370
67.5	267.872	266.351	259.612	250.994	243.882	240.688	239.197	240.688	243.882	250.994
70.0	234.147	231.705	224.186	218.729	213.390	209.343	208.468	209.343	213.390	218.729
72.5	198.618	192.670	192.077	186.232	181.238	178.561	178.036	178.561	181.238	186.232
75.0	166.528	164.961	160.698	155.157	153.130	149.453	149.719	149.453	153.130	155.157
77.5	136.682	134.358	130.346	126.284	124.105	121.447	121.637	121.447	124.105	126.284
80.0	106.577	104.774	101.435	99.629	96.910	95.521	94.719	95.521	96.910	99.629
82.5	77.795	76.928	75.586	73.760	72.627	71.688	74.144	71.688	72.627	73.760
85.0	50.405	49.512	47.747	47.306	46.496	45.561	44.321	45.561	46.496	47.306
87.5	26.340	24.454	23.362	22.537	21.343	21.442	21.685	21.442	21.343	22.537
90.0	2.175	2.118	2.407	2.278	2.742	2.902	2.206	2.902	2.742	2.278
92.5	20.325	20.608	21.944	22.038	22.697	24.092	26.686	36.987	47.013	50.189
95.0	41.969	41.636	41.781	41.918	41.695	82.586	61.123	88.614	86.730	89.556
97.5	60.087	59.427	58.990	59.016	110.789	154.959	97.107	126.543	119.094	118.066
100.0	76.097	74.393	78.340	114.770	218.461	227.194	135.181	174.831	177.570	168.495
102.5	94.385	96.509	163.187	326.630	296.442	284.284	174.634	215.841	229.283	240.927
105.0	209.762	252.118	333.258	472.436	431.511	336.039	214.454	248.975	289.900	296.835
107.5	337.795	516.872	629.887	582.198	545.553	390.072	255.970	280.225	349.404	345.038
110.0	692.302	735.796	808.828	771.584	635.024	435.364	296.946	311.133	394.267	417.983
112.5	937.164	961.997	985.800	978.010	693.928	478.857	342.426	345.295	425.175	487.504
115.0	1158.747	1185.282	1219.276	1144.189	739.819	526.204	383.052	378.171	451.631	550.605
117.5	1444.196	1453.186	1484.174	1207.715	790.161	565.844	423.291	409.165	474.491	576.375
120.0	1674.675	1709.775	1688.799	1224.494	825.094	603.773	464.045	439.902	495.467	602.317
122.5	2001.218	1982.208	1726.385	1232.293	856.433	636.821	499.577	469.268	519.012	619.954
125.0	2143.346	2047.709	1693.506	1237.682	881.683	667.472	534.680	503.686	541.529	630.485
127.5	2108.927	1989.146	1647.790	1235.885	903.860	701.634	571.581	542.471	562.676	641.359
130.0	2028.784	1909.947	1604.986	1234.174	925.177	732.883	609.681	573.464	584.766	654.630
132.5	1941.804	1834.690	1559.865	1229.126	942.561	766.360	648.379	607.283	606.171	670.554

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CANDELA TABULATION - (Cont.)

135.0	1851.044	1760.548	1520.304	1223.558	961.657	799.922	688.020	638.876	624.835	686.051
137.5	1766.116	1692.400	1479.381	1217.480	985.110	833.312	726.463	671.411	648.379	701.634
140.0	1686.142	1622.702	1440.680	1211.742	1007.288	868.675	767.901	705.486	669.356	717.644
142.5	1615.423	1560.972	1407.461	1206.089	1030.486	902.660	805.145	742.388	702.318	731.685
145.0	1557.550	1510.199	1379.546	1205.578	1054.630	935.972	844.186	781.172	743.414	742.644
147.5	1499.328	1460.805	1351.725	1210.286	1079.548	971.242	885.114	826.720	783.484	755.658
150.0	1451.381	1420.052	1331.004	1216.109	1101.980	1003.176	922.870	870.301	814.819	773.466
152.5	1408.576	1385.284	1319.877	1224.494	1123.042	1034.939	961.742	909.683	846.498	810.110
155.0	1382.202	1363.797	1311.227	1233.144	1144.104	1065.595	998.553	946.503	877.580	853.521
157.5	1362.852	1347.869	1306.775	1239.827	1160.713	1094.191	1032.027	999.242	914.646	884.859
160.0	1346.762	1335.627	1303.353	1242.475	1174.581	1118.845	1063.194	1019.785	957.715	914.561
162.5	1333.064	1322.354	1295.214	1241.964	1184.942	1141.882	1091.535	1056.000	1003.346	949.755
165.0	1314.565	1306.690	1283.491	1237.682	1193.677	1160.969	1116.368	1087.252	1038.284	991.104
167.5	1291.962	1285.458	1267.563	1231.177	1199.670	1177.578	1139.737	1117.560	1070.132	1042.728
170.0	1266.967	1260.889	1250.698	1223.813	1203.092	1189.054	1157.121	1142.052	1102.321	1073.555
172.5	1241.283	1239.827	1233.314	1214.994	1203.263	1196.844	1169.278	1162.084	1130.917	1107.029
175.0	1221.583	1218.586	1217.224	1205.578	1200.870	1200.615	1178.949	1179.374	1155.750	1140.333
177.5	1202.581	1200.436	1202.667	1194.622	1195.984	1201.126	1183.912	1190.680	1175.867	1165.591
180.0	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470

**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	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168	1094.168
2.5	1089.615	1103.002	1086.681	1103.002	1089.615	1090.220	1091.173	1089.577	1092.769	1089.577
5.0	1084.026	1097.450	1081.439	1097.450	1084.026	1084.215	1084.291	1082.733	1085.773	1082.733
7.5	1074.512	1088.171	1073.453	1088.171	1074.512	1073.642	1073.415	1071.320	1073.982	1071.320
10.0	1063.984	1081.167	1066.223	1081.167	1063.984	1059.991	1058.350	1054.855	1057.631	1054.855
12.5	1046.294	1061.700	1045.765	1061.700	1046.294	1046.181	1038.807	1035.116	1036.485	1035.116
15.0	1023.892	1040.138	1026.063	1040.138	1023.892	1023.703	1017.660	1011.345	1012.374	1011.345
17.5	999.554	1016.367	1003.548	1016.367	999.554	996.628	993.852	983.468	984.685	983.468
20.0	973.772	990.698	978.832	990.698	973.772	966.890	963.736	954.380	954.259	954.380
22.5	944.374	960.385	951.673	960.385	944.374	934.830	928.553	921.935	920.869	921.935
25.0	912.315	932.016	925.739	932.016	912.315	902.044	892.348	885.542	885.579	885.542
27.5	879.264	896.644	887.561	896.644	879.264	868.389	856.946	848.959	845.949	848.959
30.0	842.266	856.182	853.633	856.182	842.266	831.383	818.109	809.707	807.234	809.707
32.5	803.051	823.744	816.748	823.744	803.051	794.346	779.205	770.039	766.469	770.039
35.0	766.696	785.520	780.763	785.520	766.696	753.043	745.817	728.779	727.600	728.779
37.5	727.068	744.600	743.041	744.600	727.068	712.845	698.241	688.353	685.538	688.353
40.0	686.261	703.565	700.675	703.565	686.261	671.391	657.434	647.927	643.705	647.927
42.5	645.074	661.617	660.819	661.617	645.074	631.801	617.159	607.652	603.392	607.652
45.0	604.457	621.876	620.582	621.876	604.457	592.250	575.706	566.427	563.460	566.427
47.5	564.298	579.205	579.205	579.205	564.298	551.024	535.356	525.924	523.072	525.924
50.0	522.426	538.969	537.600	538.969	522.426	509.990	494.625	486.867	483.444	486.867
52.5	482.189	497.858	496.375	497.858	482.189	470.400	456.937	448.152	446.022	448.152
55.0	444.007	457.241	457.964	457.241	444.007	431.495	420.048	413.658	409.361	413.658
57.5	404.037	416.017	419.097	416.017	404.037	393.920	382.853	375.247	372.624	375.247
60.0	367.261	376.921	379.545	376.921	367.261	355.662	346.078	339.841	336.951	339.841
62.5	330.333	339.689	342.123	339.689	330.333	319.244	308.348	304.355	302.746	304.355
65.0	294.782	302.134	304.731	302.134	294.782	286.370	276.394	273.105	270.892	273.105
67.5	259.612	266.351	267.872	266.351	259.612	250.994	243.882	240.688	239.197	240.688
70.0	224.186	231.705	234.147	231.705	224.186	218.729	213.390	209.343	208.468	209.343
72.5	192.077	192.670	198.618	192.670	192.077	186.232	181.238	178.561	178.036	178.561
75.0	160.698	164.961	166.528	164.961	160.698	155.157	153.130	149.453	149.719	149.453
77.5	130.346	134.358	136.682	134.358	130.346	126.284	124.105	121.447	121.637	121.447
80.0	101.435	104.774	106.577	104.774	101.435	99.629	96.910	95.521	94.719	95.521

CANDELA TABULATION - (Cont.)

82.5	75.586	76.928	77.795	76.928	75.586	73.760	72.627	71.688	74.144	71.688
85.0	47.747	49.512	50.405	49.512	47.747	47.306	46.496	45.561	44.321	45.561
87.5	23.362	24.454	26.340	24.454	23.362	22.537	21.343	21.442	21.685	21.442
90.0	2.407	2.118	2.175	2.118	2.407	2.278	2.742	2.902	2.206	2.902
92.5	51.755	50.591	52.141	50.591	51.755	50.189	47.013	36.987	26.686	24.092
95.0	92.038	93.922	95.206	93.922	92.038	89.556	86.730	88.614	61.123	82.586
97.5	126.543	130.224	131.165	130.224	126.543	118.066	119.094	126.543	97.107	154.959
100.0	149.574	155.995	158.392	155.995	149.574	168.495	177.570	174.831	135.181	227.194
102.5	229.540	188.786	178.940	188.786	229.540	240.927	229.283	215.841	174.634	284.284
105.0	313.359	297.178	280.311	297.178	313.359	296.835	289.900	248.975	214.454	336.039
107.5	371.751	367.897	367.640	367.897	371.751	345.038	349.404	280.225	255.970	390.072
110.0	417.213	431.425	433.566	431.425	417.213	417.983	394.267	311.133	296.946	435.364
112.5	466.357	476.118	480.313	476.118	466.357	487.504	425.175	345.295	342.426	478.857
115.0	568.756	528.173	526.204	528.173	568.756	550.605	451.631	378.171	383.052	526.204
117.5	643.585	646.581	610.110	646.581	643.585	576.375	474.491	409.165	423.291	565.844
120.0	688.277	741.445	747.096	741.445	688.277	602.317	495.467	439.902	464.045	603.773
122.5	720.041	782.713	803.946	782.713	720.041	619.954	519.012	469.268	499.577	636.821
125.0	740.846	811.566	833.227	811.566	740.846	630.485	541.529	503.686	534.680	667.472
127.5	749.408	833.227	852.406	833.227	749.408	641.359	562.676	542.471	571.581	701.634
130.0	748.979	837.423	864.563	837.423	748.979	654.630	584.766	573.464	609.681	732.883
132.5	750.264	826.977	854.117	826.977	750.264	670.554	606.171	607.283	648.379	766.360
135.0	755.829	816.275	839.905	816.275	755.829	686.051	624.835	638.876	688.020	799.922
137.5	762.935	813.278	831.858	813.278	762.935	701.634	648.379	671.411	726.463	833.312
140.0	771.840	813.964	829.460	813.964	771.840	717.644	669.356	705.486	767.901	868.675
142.5	778.775	816.190	829.460	816.190	778.775	731.685	702.318	742.388	805.145	902.660
145.0	786.394	816.788	829.289	816.788	786.394	742.644	743.414	781.172	844.186	935.972
147.5	791.788	816.703	827.405	816.703	791.788	755.658	783.484	826.720	885.114	971.242
150.0	794.871	816.874	826.549	816.874	794.871	773.466	814.819	870.301	922.870	1003.176
152.5	799.922	814.135	822.439	814.135	799.922	810.110	846.498	909.683	961.742	1034.939
155.0	813.535	815.247	820.384	815.247	813.535	853.521	877.580	946.503	998.553	1065.595
157.5	853.266	828.176	827.747	828.176	853.266	884.859	914.646	999.242	1032.027	1094.191
160.0	896.666	871.501	859.940	871.501	896.666	914.561	957.715	1019.785	1063.194	1118.845
162.5	928.863	915.421	911.479	915.421	928.863	949.755	1003.346	1056.000	1091.535	1141.882
165.0	964.389	946.503	944.187	946.503	964.389	991.104	1038.284	1087.252	1116.368	1160.969
167.5	1008.999	986.907	984.770	986.907	1008.999	1042.728	1070.132	1117.560	1139.737	1177.578
170.0	1062.854	1044.014	1038.880	1044.014	1062.854	1073.555	1102.321	1142.052	1157.121	1189.054
172.5	1096.072	1082.800	1083.745	1082.800	1096.072	1107.029	1130.917	1162.084	1169.278	1196.844
175.0	1132.892	1121.416	1124.328	1121.416	1132.892	1140.333	1155.750	1179.374	1178.949	1200.615
177.5	1165.762	1157.802	1158.398	1157.802	1165.762	1165.591	1175.867	1190.680	1183.912	1201.126
180.0	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470	1187.470

Vert.
Angles

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1094.168	1094.168	1094.168	1094.168	1094.168
2.5	1091.173	1090.220	1089.615	1103.002	1086.681
5.0	1084.291	1084.215	1084.026	1097.450	1081.439
7.5	1073.415	1073.642	1074.512	1088.171	1073.453
10.0	1058.350	1059.991	1063.984	1081.167	1066.223
12.5	1038.807	1046.181	1046.294	1061.700	1045.765
15.0	1017.660	1023.703	1023.892	1040.138	1026.063
17.5	993.852	996.628	999.554	1016.367	1003.548
20.0	963.736	966.890	973.772	990.698	978.832
22.5	928.553	934.830	944.374	960.385	951.673
25.0	892.348	902.044	912.315	932.016	925.739
27.5	856.946	868.389	879.264	896.644	887.561

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-B-835-ASY-F-KPL2008-103.006.IES****CANDELA TABULATION - (Cont.)**

30.0	818.109	831.383	842.266	856.182	853.633
32.5	779.205	794.346	803.051	823.744	816.748
35.0	745.817	753.043	766.696	785.520	780.763
37.5	698.241	712.845	727.068	744.600	743.041
40.0	657.434	671.391	686.261	703.565	700.675
42.5	617.159	631.801	645.074	661.617	660.819
45.0	575.706	592.250	604.457	621.876	620.582
47.5	535.356	551.024	564.298	579.205	579.205
50.0	494.625	509.990	522.426	538.969	537.600
52.5	456.937	470.400	482.189	497.858	496.375
55.0	420.048	431.495	444.007	457.241	457.964
57.5	382.853	393.920	404.037	416.017	419.097
60.0	346.078	355.662	367.261	376.921	379.545
62.5	308.348	319.244	330.333	339.689	342.123
65.0	276.394	286.370	294.782	302.134	304.731
67.5	243.882	250.994	259.612	266.351	267.872
70.0	213.390	218.729	224.186	231.705	234.147
72.5	181.238	186.232	192.077	192.670	198.618
75.0	153.130	155.157	160.698	164.961	166.528
77.5	124.105	126.284	130.346	134.358	136.682
80.0	96.910	99.629	101.435	104.774	106.577
82.5	72.627	73.760	75.586	76.928	77.795
85.0	46.496	47.306	47.747	49.512	50.405
87.5	21.343	22.537	23.362	24.454	26.340
90.0	2.742	2.278	2.407	2.118	2.175
92.5	22.697	22.038	21.944	20.608	20.325
95.0	41.695	41.918	41.781	41.636	41.969
97.5	110.789	59.016	58.990	59.427	60.087
100.0	218.461	114.771	78.340	74.393	76.097
102.5	296.442	326.630	163.187	96.509	94.385
105.0	431.511	472.436	333.258	252.118	209.762
107.5	545.553	582.198	629.887	516.872	337.795
110.0	635.024	771.584	808.828	735.796	692.302
112.5	693.928	978.010	985.800	961.997	937.164
115.0	739.819	1144.189	1219.276	1185.282	1158.747
117.5	790.161	1207.715	1484.174	1453.186	1444.196
120.0	825.094	1224.494	1688.799	1709.775	1674.675
122.5	856.433	1232.293	1726.385	1982.208	2001.218
125.0	881.683	1237.682	1693.506	2047.709	2143.346
127.5	903.860	1235.885	1647.790	1989.146	2108.927
130.0	925.177	1234.174	1604.986	1909.947	2028.784
132.5	942.561	1229.126	1559.865	1834.690	1941.804
135.0	961.657	1223.558	1520.304	1760.548	1851.044
137.5	985.110	1217.480	1479.381	1692.400	1766.116
140.0	1007.288	1211.742	1440.680	1622.702	1686.142
142.5	1030.486	1206.089	1407.461	1560.972	1615.423
145.0	1054.630	1205.578	1379.546	1510.199	1557.550
147.5	1079.548	1210.286	1351.725	1460.805	1499.328
150.0	1101.980	1216.109	1331.004	1420.052	1451.381
152.5	1123.042	1224.494	1319.877	1385.284	1408.576
155.0	1144.104	1233.144	1311.227	1363.797	1382.202
157.5	1160.713	1239.827	1306.775	1347.869	1362.852
160.0	1174.581	1242.475	1303.353	1335.627	1346.762
162.5	1184.942	1241.964	1295.214	1322.354	1333.064
165.0	1193.677	1237.682	1283.491	1306.690	1314.565
167.5	1199.670	1231.177	1267.563	1285.458	1291.962

CANDELA TABULATION - (Cont.)

170.0	1203.092	1223.813	1250.698	1260.889	1266.967
172.5	1203.263	1214.994	1233.314	1239.827	1241.283
175.0	1200.870	1205.578	1217.224	1218.586	1221.583
177.5	1195.984	1194.622	1202.667	1200.436	1202.581
180.0	1187.470	1187.470	1187.470	1187.470	1187.470

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.79	N.A.	5.70
0-30	806.96	N.A.	11.70
0-40	1278.65	N.A.	18.50
0-60	2122.75	N.A.	30.70
0-80	2573.29	N.A.	37.20
0-90	2626.55	N.A.	38.00
10-90	2523.62	N.A.	36.50
20-40	887.86	N.A.	12.80
20-50	1344.56	N.A.	19.50
40-70	1128.25	N.A.	16.30
60-80	450.54	N.A.	6.50
70-80	166.39	N.A.	2.40
80-90	53.26	N.A.	0.80
90-110	413.15	N.A.	6.00
90-120	1114.39	N.A.	16.10
90-130	1980.26	N.A.	28.70
90-150	3372.43	N.A.	48.80
90-180	4284.27	N.A.	62.00
110-180	3871.11	N.A.	56.00
0-180	6910.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.93
10-20	287.86
20-30	416.17
30-40	471.69
40-50	456.69
50-60	387.40
60-70	284.16
70-80	166.39
80-90	53.26
90-100	77.28
100-110	335.88
110-120	701.24
120-130	865.87
130-140	763.99
140-150	628.18
150-160	483.45
160-170	316.74
170-180	111.65

IES INDOOR REPORT

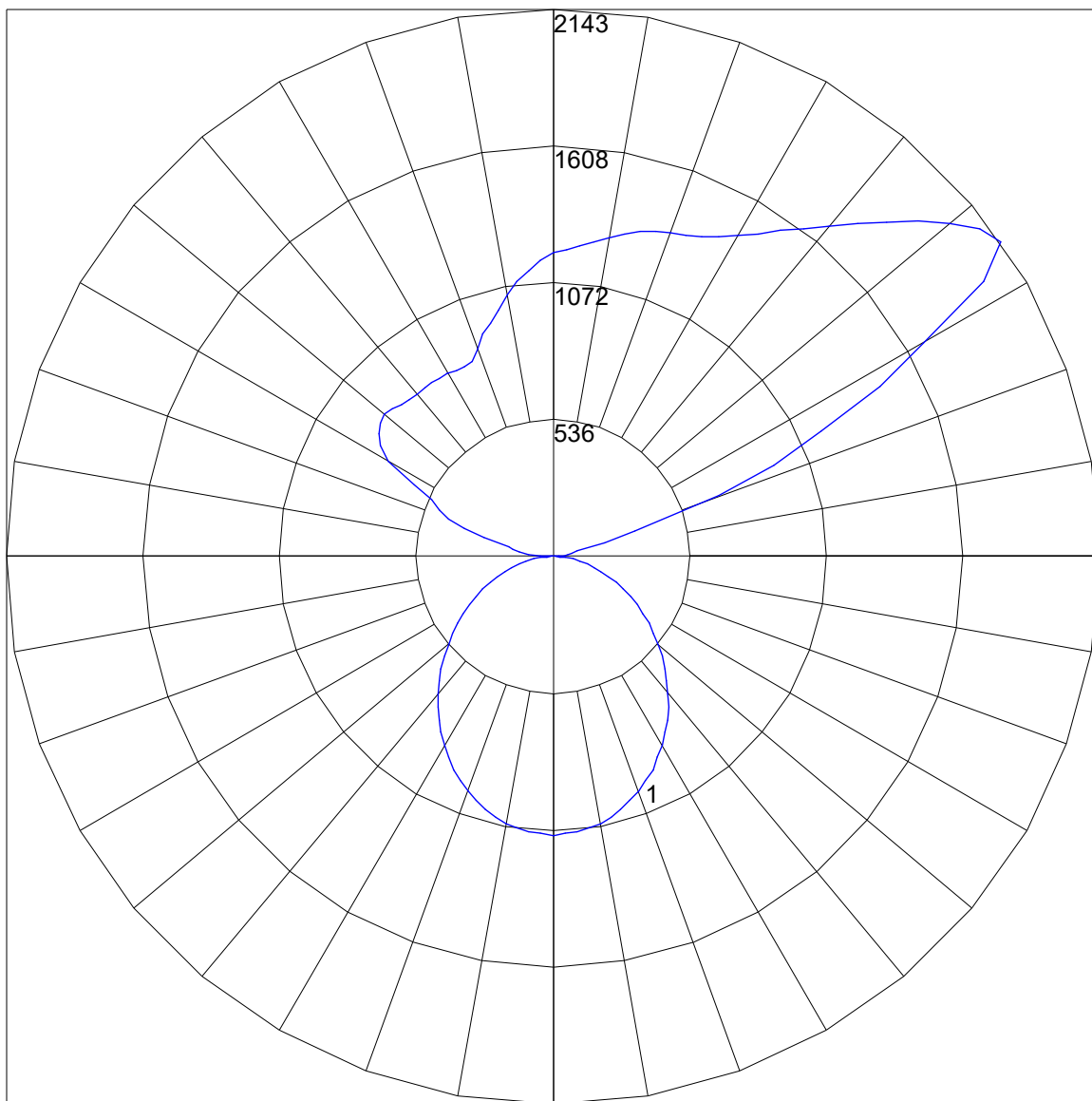
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-B-835-ASY-F-KPL2008-103.006.IES

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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 2143.346 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)