

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-ASY-F-KPL2008-103.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.010 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-B-B-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 47.8 WATTS
[ABSOLUTE LUMENS] 6432
[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	6433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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)	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	18.057	18.308	19.494	19.578	20.164	21.403	23.708	32.858	41.765	44.587
95.0	37.285	36.989	37.118	37.240	37.042	73.368	54.300	78.723	77.050	79.560
97.5	53.380	52.794	52.406	52.429	98.423	137.663	86.269	112.419	105.801	104.888
100.0	67.603	66.090	69.596	101.960	194.078	201.836	120.093	155.317	157.751	149.689
102.5	83.850	85.737	144.973	290.174	263.354	252.553	155.142	191.750	203.692	214.036
105.0	186.350	223.978	296.061	419.705	383.348	298.532	190.518	221.186	257.543	263.704
107.5	300.092	459.182	559.582	517.216	484.661	346.534	227.400	248.948	310.405	306.526
110.0	615.031	653.670	718.550	685.464	564.145	386.771	263.803	276.406	350.261	371.330
112.5	832.562	854.624	875.770	868.850	616.475	425.410	304.206	306.755	377.720	433.092
115.0	1029.413	1052.987	1083.187	1016.480	657.244	467.472	340.298	335.962	401.222	489.149
117.5	1283.002	1290.989	1318.518	1072.916	701.968	502.687	376.046	363.496	421.531	512.043
120.0	1487.756	1518.939	1500.303	1087.823	733.001	536.383	412.251	390.802	440.165	535.090
122.5	1777.852	1760.964	1533.694	1094.750	760.842	565.742	443.817	416.891	461.082	550.758
125.0	1904.117	1819.154	1504.486	1099.538	783.274	592.972	475.001	447.467	481.087	560.114
127.5	1873.540	1767.128	1463.872	1097.942	802.976	623.321	507.784	481.923	499.873	569.774
130.0	1802.341	1696.769	1425.845	1096.422	821.914	651.083	541.631	509.457	519.497	581.563
132.5	1725.070	1629.911	1385.761	1091.937	837.357	680.823	576.010	539.501	538.513	595.711

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CANDELA TABULATION - (Cont.)

135.0	1644.440	1564.045	1350.616	1086.991	854.321	710.639	611.227	567.568	555.094	609.478
137.5	1568.991	1503.503	1314.260	1081.591	875.158	740.302	645.379	596.471	576.010	623.321
140.0	1497.944	1441.584	1279.879	1076.493	894.859	771.718	682.192	626.743	594.646	637.544
142.5	1435.118	1386.744	1250.368	1071.471	915.469	801.909	715.279	659.526	623.929	650.018
145.0	1383.704	1341.638	1225.568	1071.018	936.917	831.504	749.963	693.982	660.438	659.754
147.5	1331.980	1297.758	1200.852	1075.200	959.054	862.837	786.322	734.446	696.035	671.315
150.0	1289.385	1261.553	1182.444	1080.373	978.983	891.206	819.864	773.162	723.873	687.136
152.5	1251.358	1230.666	1172.559	1087.823	997.694	919.424	854.397	808.149	752.016	719.690
155.0	1227.928	1211.577	1164.875	1095.507	1016.405	946.658	887.100	840.859	779.629	758.256
157.5	1210.737	1197.426	1160.919	1101.444	1031.160	972.063	916.837	887.712	812.558	786.095
160.0	1196.443	1186.551	1157.879	1103.796	1043.481	993.965	944.526	905.962	850.820	812.483
162.5	1184.274	1174.760	1150.649	1103.342	1052.685	1014.431	969.703	938.135	891.358	843.748
165.0	1167.840	1160.844	1140.235	1099.538	1060.444	1031.387	991.764	965.899	922.396	880.482
167.5	1147.760	1141.982	1126.084	1093.760	1065.769	1046.143	1012.525	992.823	950.690	926.344
170.0	1125.555	1120.155	1111.102	1087.218	1068.809	1056.338	1027.969	1014.582	979.286	953.730
172.5	1102.737	1101.444	1095.658	1079.382	1068.960	1063.258	1038.769	1032.378	1004.690	983.468
175.0	1085.236	1082.574	1081.364	1071.018	1066.835	1066.608	1047.360	1047.739	1026.751	1013.054
177.5	1068.355	1066.450	1068.431	1061.284	1062.494	1067.062	1051.770	1057.782	1044.623	1035.494
180.0	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931

**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

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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	45.979	44.944	46.321	44.944	45.979	44.587	41.765	32.858	23.708	21.403
95.0	81.766	83.439	84.580	83.439	81.766	79.560	77.050	78.723	54.300	73.368
97.5	112.419	115.689	116.525	115.689	112.419	104.888	105.801	112.419	86.269	137.663
100.0	132.879	138.584	140.713	138.584	132.879	149.689	157.751	155.317	120.093	201.836
102.5	203.920	167.715	158.968	167.715	203.920	214.036	203.692	191.750	155.142	252.553
105.0	278.384	264.008	249.024	264.008	278.384	263.704	257.543	221.186	190.518	298.532
107.5	330.258	326.835	326.606	326.835	330.258	306.526	310.405	248.948	227.400	346.534
110.0	370.646	383.272	385.174	383.272	370.646	371.330	350.261	276.406	263.803	386.771
112.5	414.305	422.976	426.703	422.976	414.305	433.092	377.720	306.755	304.206	425.410
115.0	505.274	469.221	467.472	469.221	505.274	489.149	401.222	335.962	340.298	467.472
117.5	571.752	574.413	542.012	574.413	571.752	512.043	421.531	363.496	376.046	502.687
120.0	611.455	658.689	663.709	658.689	611.455	535.090	440.165	390.802	412.251	536.383
122.5	639.674	695.351	714.214	695.351	639.674	550.758	461.082	416.891	443.817	565.742
125.0	658.156	720.983	740.227	720.983	658.156	560.114	481.087	447.467	475.001	592.972
127.5	665.763	740.227	757.265	740.227	665.763	569.774	499.873	481.923	507.784	623.321
130.0	665.382	743.954	768.065	743.954	665.382	581.563	519.497	509.457	541.631	651.083
132.5	666.523	734.674	758.785	734.674	666.523	595.711	538.513	539.501	576.010	680.823
135.0	671.467	725.166	746.159	725.166	671.467	609.478	555.094	567.568	611.227	710.639
137.5	677.780	722.504	739.010	722.504	677.780	623.321	576.010	596.471	645.379	740.302
140.0	685.691	723.113	736.880	723.113	685.691	637.544	594.646	626.743	682.192	771.718
142.5	691.852	725.091	736.880	725.091	691.852	650.018	623.929	659.526	715.279	801.909
145.0	698.621	725.623	736.728	725.623	698.621	659.754	660.438	693.982	749.963	831.504
147.5	703.413	725.547	735.054	725.547	703.413	671.315	696.035	734.446	786.322	862.837
150.0	706.151	725.699	734.294	725.699	706.151	687.136	723.873	773.162	819.864	891.206
152.5	710.639	723.265	730.643	723.265	710.639	719.690	752.016	808.149	854.397	919.424
155.0	722.733	724.254	728.817	724.254	722.733	758.256	779.629	840.859	887.100	946.658
157.5	758.029	735.739	735.358	735.739	758.029	786.095	812.558	887.712	916.837	972.063
160.0	796.585	774.229	763.958	774.229	796.585	812.483	850.820	905.962	944.526	993.965
162.5	825.188	813.246	809.745	813.246	825.188	843.748	891.358	938.135	969.703	1014.431
165.0	856.749	840.859	838.802	840.859	856.749	880.482	922.396	965.899	991.764	1031.387
167.5	896.379	876.753	874.855	876.753	896.379	926.344	950.690	992.823	1012.525	1046.143
170.0	944.223	927.486	922.926	927.486	944.223	953.730	979.286	1014.582	1027.969	1056.338
172.5	973.734	961.943	962.783	961.943	973.734	983.468	1004.690	1032.378	1038.769	1063.258
175.0	1006.444	996.249	998.836	996.249	1006.444	1013.054	1026.751	1047.739	1047.360	1066.608
177.5	1035.645	1028.574	1029.103	1028.574	1035.645	1035.494	1044.623	1057.782	1051.770	1067.062
180.0	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931	1054.931

**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-B-B-835-ASY-F-KPL2008-103.010.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	20.164	19.578	19.494	18.308	18.057
95.0	37.042	37.240	37.118	36.989	37.285
97.5	98.423	52.429	52.406	52.794	53.380
100.0	194.078	101.960	69.596	66.090	67.603
102.5	263.354	290.174	144.973	85.737	83.850
105.0	383.348	419.705	296.061	223.978	186.350
107.5	484.661	517.216	559.582	459.182	300.092
110.0	564.145	685.464	718.550	653.670	615.031
112.5	616.475	868.850	875.770	854.624	832.562
115.0	657.244	1016.480	1083.187	1052.987	1029.413
117.5	701.968	1072.916	1318.518	1290.989	1283.002
120.0	733.001	1087.823	1500.303	1518.939	1487.756
122.5	760.842	1094.750	1533.694	1760.964	1777.852
125.0	783.274	1099.538	1504.486	1819.154	1904.117
127.5	802.976	1097.942	1463.872	1767.128	1873.540
130.0	821.914	1096.422	1425.845	1696.769	1802.341
132.5	837.357	1091.937	1385.761	1629.911	1725.070
135.0	854.321	1086.991	1350.616	1564.045	1644.440
137.5	875.158	1081.591	1314.260	1503.503	1568.991
140.0	894.859	1076.493	1279.879	1441.584	1497.944
142.5	915.469	1071.471	1250.368	1386.744	1435.118
145.0	936.917	1071.018	1225.568	1341.638	1383.704
147.5	959.054	1075.200	1200.852	1297.758	1331.980
150.0	978.983	1080.373	1182.444	1261.553	1289.385
152.5	997.694	1087.823	1172.559	1230.666	1251.358
155.0	1016.405	1095.507	1164.875	1211.577	1227.928
157.5	1031.160	1101.444	1160.919	1197.426	1210.737
160.0	1043.481	1103.796	1157.879	1186.551	1196.443
162.5	1052.685	1103.342	1150.649	1174.760	1184.274
165.0	1060.444	1099.538	1140.235	1160.844	1167.840
167.5	1065.769	1093.760	1126.084	1141.982	1147.760

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

170.0	1068.809	1087.218	1111.102	1120.155	1125.555
172.5	1068.960	1079.382	1095.658	1101.444	1102.737
175.0	1066.835	1071.018	1081.364	1082.574	1085.236
177.5	1062.494	1061.284	1068.431	1066.450	1068.355
180.0	1054.931	1054.931	1054.931	1054.931	1054.931

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-B-835-ASY-F-KPL2008-103.010.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.79	N.A.	6.10
0-30	806.96	N.A.	12.50
0-40	1278.65	N.A.	19.90
0-60	2122.75	N.A.	33.00
0-80	2573.29	N.A.	40.00
0-90	2626.55	N.A.	40.80
10-90	2523.62	N.A.	39.20
20-40	887.86	N.A.	13.80
20-50	1344.56	N.A.	20.90
40-70	1128.25	N.A.	17.50
60-80	450.54	N.A.	7.00
70-80	166.39	N.A.	2.60
80-90	53.26	N.A.	0.80
90-110	367.08	N.A.	5.70
90-120	990.05	N.A.	15.40
90-130	1759.27	N.A.	27.30
90-150	2996.05	N.A.	46.60
90-180	3806.12	N.A.	59.20
110-180	3439.04	N.A.	53.50
0-180	6432.66	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	68.69
100-110	298.39
110-120	622.97
120-130	769.22
130-140	678.72
140-150	558.07
150-160	429.49
160-170	281.39
170-180	99.19

IES INDOOR REPORT

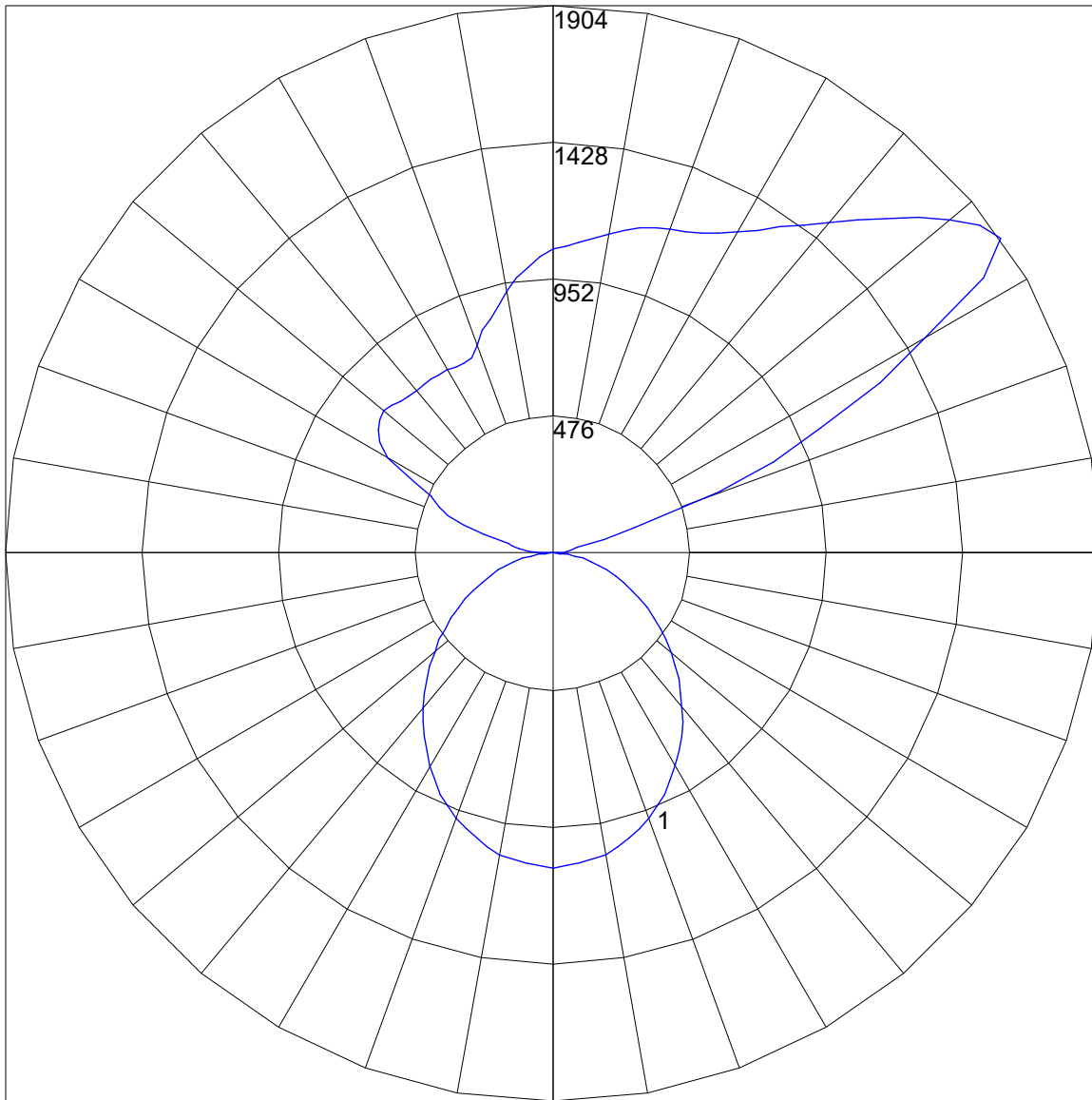
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-B-835-ASY-F-KPL2008-103.010.IES

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

POLAR GRAPH



Maximum Candela = 1904.117 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)