

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-V-835-ASY-F-KPL2008-103.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.008 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 12/4/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-B-V-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.3 WATTS
[ABSOLUTELUMENS]7586
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7587
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	58.3
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	13642	13019	12386
55	12411	11693	11094
65	11208	10533	9963
75	10001	9318	8992
85	8990	8437	7904

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	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800
2.5	1564.024	1587.514	1568.247	1569.118	1570.490	1568.193	1572.787	1568.193	1570.490	1569.118
5.0	1556.480	1579.524	1560.203	1560.475	1560.584	1558.342	1562.718	1558.342	1560.584	1560.475
7.5	1544.986	1566.168	1546.510	1545.258	1544.931	1541.916	1545.748	1541.916	1544.931	1545.258
10.0	1534.579	1556.089	1531.357	1525.610	1523.248	1518.219	1522.214	1518.219	1523.248	1525.610
12.5	1505.135	1528.070	1505.897	1505.733	1495.120	1489.808	1491.779	1489.808	1495.120	1505.733
15.0	1476.779	1497.036	1473.655	1473.383	1464.685	1455.596	1457.076	1455.596	1464.685	1473.383
17.5	1444.373	1462.824	1438.626	1434.413	1430.418	1415.473	1417.226	1415.473	1430.418	1434.413
20.0	1408.800	1425.879	1401.518	1391.613	1387.073	1373.608	1373.434	1373.608	1387.073	1391.613
22.5	1369.711	1382.251	1359.207	1345.470	1336.435	1326.911	1325.376	1326.911	1336.435	1345.470
25.0	1332.386	1341.421	1313.065	1298.283	1284.328	1274.531	1274.585	1274.531	1284.328	1298.283
27.5	1277.437	1290.511	1265.496	1249.843	1233.374	1221.879	1217.547	1221.879	1233.374	1249.843
30.0	1228.606	1232.275	1212.246	1196.582	1177.478	1165.385	1161.825	1165.385	1177.478	1196.582
32.5	1175.519	1185.588	1155.806	1143.277	1121.485	1108.292	1103.154	1108.292	1121.485	1143.277
35.0	1123.727	1130.574	1103.480	1083.830	1073.430	1048.908	1047.211	1048.908	1073.430	1083.830
37.5	1069.435	1071.679	1046.445	1025.974	1004.955	990.723	986.673	990.723	1004.955	1025.974
40.0	1008.459	1012.618	987.714	966.311	946.223	932.540	926.463	932.540	946.223	966.311
42.5	951.095	952.244	928.434	909.331	888.257	874.573	868.443	874.573	888.257	909.331
45.0	893.184	895.045	869.976	852.406	828.595	815.240	810.970	815.240	828.595	852.406
47.5	833.631	833.631	812.175	793.071	770.520	756.945	752.841	756.945	770.520	793.071
50.0	773.750	775.720	751.910	734.011	711.898	700.732	695.805	700.732	711.898	734.011
52.5	714.416	716.550	693.999	677.031	657.655	645.010	641.945	645.010	657.655	677.031
55.0	659.133	658.092	639.044	621.037	604.561	595.365	589.180	595.365	604.561	621.037
57.5	603.193	598.759	581.517	566.957	551.028	540.081	536.305	540.081	551.028	566.957
60.0	546.267	542.490	528.587	511.893	498.099	489.122	484.962	489.122	498.099	511.893
62.5	492.406	488.903	475.438	459.477	443.794	438.048	435.733	438.048	443.794	459.477
65.0	438.589	434.851	424.271	412.163	397.805	393.071	389.885	393.071	397.805	412.163
67.5	385.540	383.350	373.651	361.247	351.012	346.414	344.269	346.414	351.012	361.247
70.0	336.999	333.486	322.664	314.810	307.125	301.300	300.042	301.300	307.125	314.810
72.5	285.865	277.304	276.450	268.037	260.851	256.997	256.242	256.997	260.851	268.037
75.0	239.679	237.423	231.287	223.313	220.395	215.102	215.485	215.102	220.395	223.313
77.5	196.721	193.377	187.603	181.756	178.620	174.794	175.068	174.794	178.620	181.756
80.0	153.393	150.798	145.992	143.392	139.479	137.481	136.326	137.481	139.479	143.392
82.5	111.968	110.720	108.788	106.160	104.530	103.178	106.713	103.178	104.530	106.160
85.0	72.547	71.261	68.721	68.086	66.920	65.574	63.790	65.574	66.920	68.086
87.5	37.910	35.195	33.625	32.437	30.718	30.861	31.210	30.861	30.718	32.437
90.0	3.131	3.049	3.465	3.279	3.947	4.177	3.175	4.177	3.947	3.279
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

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	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800	1574.800
2.5	1568.247	1587.514	1564.024	1587.514	1568.247	1569.118	1570.490	1568.193	1572.787	1568.193
5.0	1560.203	1579.524	1556.480	1579.524	1560.203	1560.475	1560.584	1558.342	1562.718	1558.342
7.5	1546.510	1566.168	1544.986	1566.168	1546.510	1545.258	1544.931	1541.916	1545.748	1541.916
10.0	1531.357	1556.089	1534.579	1556.089	1531.357	1525.610	1523.248	1518.219	1522.214	1518.219
12.5	1505.897	1528.070	1505.135	1528.070	1505.897	1505.733	1495.120	1489.808	1491.779	1489.808
15.0	1473.655	1497.036	1476.779	1497.036	1473.655	1473.383	1464.685	1455.596	1457.076	1455.596
17.5	1438.626	1462.824	1444.373	1462.824	1438.626	1434.413	1430.418	1415.473	1417.226	1415.473
20.0	1401.518	1425.879	1408.800	1425.879	1401.518	1391.613	1387.073	1373.608	1373.434	1373.608
22.5	1359.207	1382.251	1369.711	1382.251	1359.207	1345.470	1336.435	1326.911	1325.376	1326.911
25.0	1313.065	1341.421	1332.386	1341.421	1313.065	1298.283	1284.328	1274.531	1274.585	1274.531
27.5	1265.496	1290.511	1277.437	1290.511	1265.496	1249.843	1233.374	1221.879	1217.547	1221.879
30.0	1212.246	1232.275	1228.606	1232.275	1212.246	1196.582	1177.478	1165.385	1161.825	1165.385
32.5	1155.806	1185.588	1175.519	1185.588	1155.806	1143.277	1121.485	1108.292	1103.154	1108.292
35.0	1103.480	1130.574	1123.727	1130.574	1103.480	1083.830	1073.430	1048.908	1047.211	1048.908
37.5	1046.445	1071.679	1069.435	1071.679	1046.445	1025.974	1004.955	990.723	986.673	990.723
40.0	987.714	1012.618	1008.459	1012.618	987.714	966.311	946.223	932.540	926.463	932.540
42.5	928.434	952.244	951.095	952.244	928.434	909.331	888.257	874.573	868.443	874.573
45.0	869.976	895.045	893.184	895.045	869.976	852.406	828.595	815.240	810.970	815.240
47.5	812.175	833.631	833.631	833.631	812.175	793.071	770.520	756.945	752.841	756.945
50.0	751.910	775.720	773.750	775.720	751.910	734.011	711.898	700.732	695.805	700.732
52.5	693.999	716.550	714.416	716.550	693.999	677.031	657.655	645.010	641.945	645.010
55.0	639.044	658.092	659.133	658.092	639.044	621.037	604.561	595.365	589.180	595.365
57.5	581.517	598.759	603.193	598.759	581.517	566.957	551.028	540.081	536.305	540.081
60.0	528.587	542.490	546.267	542.490	528.587	511.893	498.099	489.122	484.962	489.122
62.5	475.438	488.903	492.406	488.903	475.438	459.477	443.794	438.048	435.733	438.048
65.0	424.271	434.851	438.589	434.851	424.271	412.163	397.805	393.071	389.885	393.071
67.5	373.651	383.350	385.540	383.350	373.651	361.247	351.012	346.414	344.269	346.414
70.0	322.664	333.486	336.999	333.486	322.664	314.810	307.125	301.300	300.042	301.300
72.5	276.450	277.304	285.865	277.304	276.450	268.037	260.851	256.997	256.242	256.997
75.0	231.287	237.423	239.679	237.423	231.287	223.313	220.395	215.102	215.485	215.102
77.5	187.603	193.377	196.721	193.377	187.603	181.756	178.620	174.794	175.068	174.794
80.0	145.992	150.798	153.393	150.798	145.992	143.392	139.479	137.481	136.326	137.481

CANDELA TABULATION - (Cont.)

82.5	108.788	110.720	111.968	110.720	108.788	106.160	104.530	103.178	106.713	103.178
85.0	68.721	71.261	72.547	71.261	68.721	68.086	66.920	65.574	63.790	65.574
87.5	33.625	35.195	37.910	35.195	33.625	32.437	30.718	30.861	31.210	30.861
90.0	3.465	3.049	3.131	3.049	3.465	3.279	3.947	4.177	3.175	4.177
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	1574.800	1574.800	1574.800	1574.800	1574.800
2.5	1570.490	1569.118	1568.247	1587.514	1564.024
5.0	1560.584	1560.475	1560.203	1579.524	1556.480
7.5	1544.931	1545.258	1546.510	1566.168	1544.986
10.0	1523.248	1525.610	1531.357	1556.089	1534.579
12.5	1495.120	1505.733	1505.897	1528.070	1505.135
15.0	1464.685	1473.383	1473.655	1497.036	1476.779
17.5	1430.418	1434.413	1438.626	1462.824	1444.373
20.0	1387.073	1391.613	1401.518	1425.879	1408.800
22.5	1336.435	1345.470	1359.207	1382.251	1369.711
25.0	1284.328	1298.283	1313.065	1341.421	1332.386
27.5	1233.374	1249.843	1265.496	1290.511	1277.437

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-ASY-F-KPL2008-103.008.IES****CANDELA TABULATION - (Cont.)**

30.0	1177.478	1196.582	1212.246	1232.275	1228.606
32.5	1121.485	1143.277	1155.806	1185.588	1175.519
35.0	1073.430	1083.830	1103.480	1130.574	1123.727
37.5	1004.955	1025.974	1046.445	1071.679	1069.435
40.0	946.223	966.311	987.714	1012.618	1008.459
42.5	888.257	909.331	928.434	952.244	951.095
45.0	828.595	852.406	869.976	895.045	893.184
47.5	770.520	793.071	812.175	833.631	833.631
50.0	711.898	734.011	751.910	775.720	773.750
52.5	657.655	677.031	693.999	716.550	714.416
55.0	604.561	621.037	639.044	658.092	659.133
57.5	551.028	566.957	581.517	598.759	603.193
60.0	498.099	511.893	528.587	542.490	546.267
62.5	443.794	459.477	475.438	488.903	492.406
65.0	397.805	412.163	424.271	434.851	438.589
67.5	351.012	361.247	373.651	383.350	385.540
70.0	307.125	314.810	322.664	333.486	336.999
72.5	260.851	268.037	276.450	277.304	285.865
75.0	220.395	223.313	231.287	237.423	239.679
77.5	178.620	181.756	187.603	193.377	196.721
80.0	139.479	143.392	145.992	150.798	153.393
82.5	104.530	106.160	108.788	110.720	111.968
85.0	66.920	68.086	68.721	71.261	72.547
87.5	30.718	32.437	33.625	35.195	37.910
90.0	3.947	3.279	3.465	3.049	3.131
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

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-ASY-F-KPL2008-103.008.IES

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-V-835-ASY-F-KPL2008-103.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	562.45	N.A.	7.40
0-30	1161.43	N.A.	15.30
0-40	1840.32	N.A.	24.30
0-60	3055.2	N.A.	40.30
0-80	3703.65	N.A.	48.80
0-90	3780.31	N.A.	49.80
10-90	3632.16	N.A.	47.90
20-40	1277.87	N.A.	16.80
20-50	1935.18	N.A.	25.50
40-70	1623.85	N.A.	21.40
60-80	648.45	N.A.	8.50
70-80	239.47	N.A.	3.20
80-90	76.66	N.A.	1.00
90-110	367.22	N.A.	4.80
90-120	990.19	N.A.	13.10
90-130	1759.42	N.A.	23.20
90-150	2996.2	N.A.	39.50
90-180	3806.26	N.A.	50.20
110-180	3439.04	N.A.	45.30
0-180	7586.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.14
10-20	414.31
20-30	598.98
30-40	678.89
40-50	657.31
50-60	557.57
60-70	408.98
70-80	239.47
80-90	76.66
90-100	68.84
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

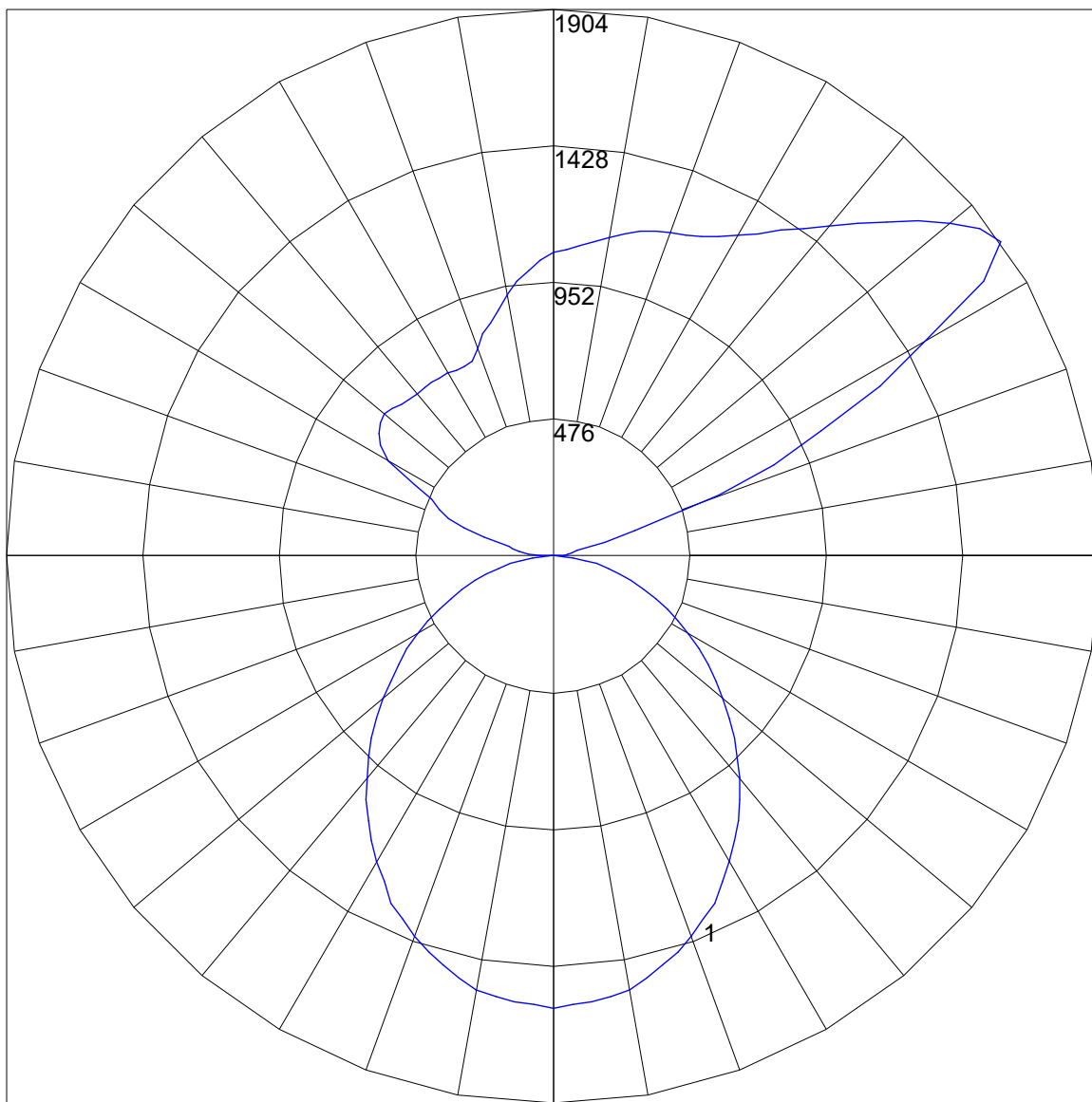
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-ASY-F-KPL2008-103.008.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	76	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	47	36	29	24	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	17	15	13

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.)