

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-V-835-ASY-F-KPL2008-103.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.004 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 12/4/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-H-V-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.3 WATTS
[ABSOLUTELUMENS]8064
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8065
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	61.3
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	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	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	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	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
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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	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

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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**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-ASY-F-KPL2008-103.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	562.45	N.A.	7.00
0-30	1161.43	N.A.	14.40
0-40	1840.32	N.A.	22.80
0-60	3055.2	N.A.	37.90
0-80	3703.65	N.A.	45.90
0-90	3780.31	N.A.	46.90
10-90	3632.16	N.A.	45.00
20-40	1277.87	N.A.	15.80
20-50	1935.18	N.A.	24.00
40-70	1623.85	N.A.	20.10
60-80	648.45	N.A.	8.00
70-80	239.47	N.A.	3.00
80-90	76.66	N.A.	1.00
90-110	413.30	N.A.	5.10
90-120	1114.54	N.A.	13.80
90-130	1980.4	N.A.	24.60
90-150	3372.57	N.A.	41.80
90-180	4284.41	N.A.	53.10
110-180	3871.11	N.A.	48.00
0-180	8064.72	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	77.42
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

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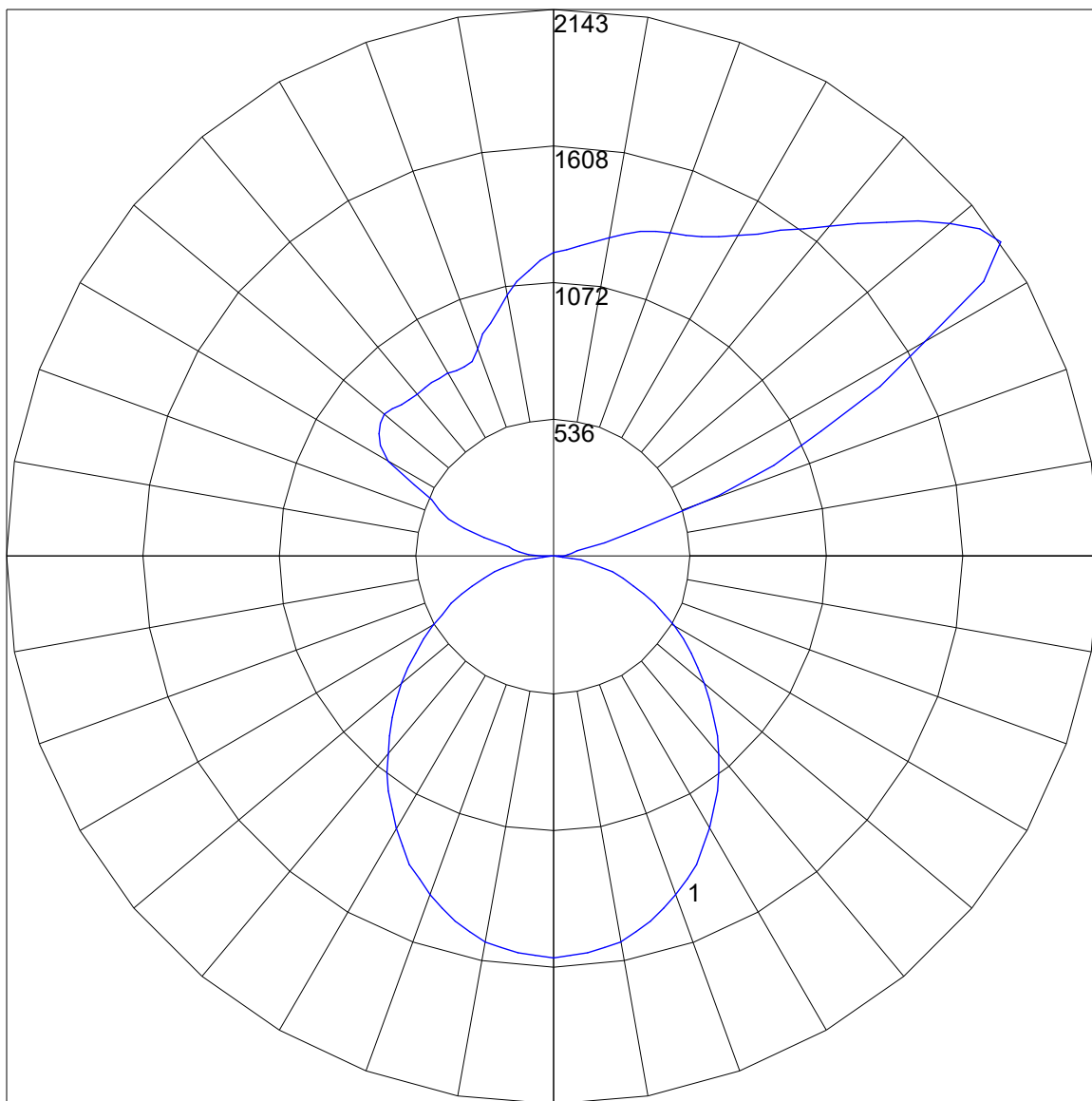
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-ASY-F-KPL2008-103.004.IES

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45	40
2	88	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	33
3	81	71	64	58	74	66	60	54	55	51	47	46	42	40	37	35	33	28
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	31	26	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

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.)