

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-S-835-ASY-F-KPL2008-103.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.007 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-S-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 46.0 WATTS
[ABSOLUTE LUMENS] 6383
[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	6383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	46
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	7576	7230	6878
55	6892	6494	6160
65	6224	5849	5533
75	5554	5175	4993
85	4992	4685	4389

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	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523
2.5	868.538	881.583	870.884	871.367	872.129	870.854	873.405	870.854	872.129	871.367
5.0	864.349	877.146	866.417	866.568	866.628	865.383	867.813	865.383	866.628	866.568
7.5	857.966	869.729	858.812	858.117	857.936	856.261	858.389	856.261	857.936	858.117
10.0	852.187	864.132	850.398	847.206	845.895	843.102	845.320	843.102	845.895	847.206
12.5	835.836	848.572	836.259	836.168	830.275	827.325	828.419	827.325	830.275	836.168
15.0	820.089	831.339	818.354	818.203	813.373	808.326	809.148	808.326	813.373	818.203
17.5	802.094	812.340	798.902	796.563	794.344	786.045	787.018	786.045	794.344	796.563
20.0	782.339	791.824	778.295	772.794	770.274	762.796	762.700	762.796	770.274	772.794
22.5	760.632	767.596	754.799	747.170	742.153	736.864	736.012	736.864	742.153	747.170
25.0	739.905	744.922	729.175	720.966	713.217	707.776	707.807	707.776	713.217	720.966
27.5	709.390	716.650	702.759	694.067	684.921	678.538	676.132	678.538	684.921	694.067
30.0	682.273	684.310	673.188	664.489	653.881	647.165	645.188	647.165	653.881	664.489
32.5	652.793	658.384	641.845	634.888	622.786	615.460	612.607	615.460	622.786	634.888
35.0	624.031	627.834	612.788	601.876	596.101	582.483	581.540	582.483	596.101	601.876
37.5	593.882	595.128	581.115	569.747	558.075	550.171	547.922	550.171	558.075	569.747
40.0	560.020	562.330	548.500	536.615	525.460	517.861	514.486	517.861	525.460	536.615
42.5	528.165	528.803	515.581	504.973	493.270	485.671	482.266	485.671	493.270	504.973
45.0	496.006	497.039	483.117	473.361	460.138	452.722	450.350	452.722	460.138	473.361
47.5	462.934	462.934	451.019	440.411	427.888	420.349	418.070	420.349	427.888	440.411
50.0	429.681	430.775	417.553	407.613	395.333	389.133	386.397	389.133	395.333	407.613
52.5	396.731	397.917	385.394	375.971	365.211	358.189	356.487	358.189	365.211	375.971
55.0	366.032	365.454	354.876	344.876	335.727	330.620	327.185	330.620	335.727	344.876
57.5	334.967	332.505	322.930	314.844	305.999	299.919	297.822	299.919	305.999	314.844
60.0	303.355	301.257	293.537	284.266	276.606	271.621	269.311	271.621	276.606	284.266
62.5	273.444	271.499	264.022	255.158	246.449	243.258	241.972	243.258	246.449	255.158
65.0	243.559	241.483	235.607	228.884	220.911	218.282	216.512	218.282	220.911	228.884
67.5	214.099	212.883	207.497	200.609	194.925	192.372	191.180	192.372	194.925	200.609
70.0	187.144	185.192	179.182	174.821	170.554	167.319	166.620	167.319	170.554	174.821
72.5	158.747	153.993	153.519	148.847	144.856	142.716	142.297	142.716	144.856	148.847
75.0	133.099	131.847	128.439	124.011	122.390	119.451	119.664	119.451	122.390	124.011
77.5	109.244	107.387	104.180	100.933	99.192	97.067	97.220	97.067	99.192	100.933
80.0	85.182	83.741	81.073	79.629	77.456	76.346	75.705	76.346	77.456	79.629
82.5	62.178	61.486	60.413	58.953	58.048	57.297	59.260	57.297	58.048	58.953
85.0	40.287	39.573	38.162	37.810	37.162	36.415	35.424	36.415	37.162	37.810
87.5	21.052	19.545	18.672	18.013	17.058	17.138	17.332	17.138	17.058	18.013
90.0	1.738	1.693	1.924	1.821	2.192	2.319	1.763	2.319	2.192	1.821
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	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523	874.523
2.5	870.884	881.583	868.538	881.583	870.884	871.367	872.129	870.854	873.405	870.854
5.0	866.417	877.146	864.349	877.146	866.417	866.568	866.628	865.383	867.813	865.383
7.5	858.812	869.729	857.966	869.729	858.812	858.117	857.936	856.261	858.389	856.261
10.0	850.398	864.132	852.187	864.132	850.398	847.206	845.895	843.102	845.320	843.102
12.5	836.259	848.572	835.836	848.572	836.259	836.168	830.275	827.325	828.419	827.325
15.0	818.354	831.339	820.089	831.339	818.354	818.203	813.373	808.326	809.148	808.326
17.5	798.902	812.340	802.094	812.340	798.902	796.563	794.344	786.045	787.018	786.045
20.0	778.295	791.824	782.339	791.824	778.295	772.794	770.274	762.796	762.700	762.796
22.5	754.799	767.596	760.632	767.596	754.799	747.170	742.153	736.864	736.012	736.864
25.0	729.175	744.922	739.905	744.922	729.175	720.966	713.217	707.776	707.807	707.776
27.5	702.759	716.650	709.390	716.650	702.759	694.067	684.921	678.538	676.132	678.538
30.0	673.188	684.310	682.273	684.310	673.188	664.489	653.881	647.165	645.188	647.165
32.5	641.845	658.384	652.793	658.384	641.845	634.888	622.786	615.460	612.607	615.460
35.0	612.788	627.834	624.031	627.834	612.788	601.876	596.101	582.483	581.540	582.483
37.5	581.115	595.128	593.882	595.128	581.115	569.747	558.075	550.171	547.922	550.171
40.0	548.500	562.330	560.020	562.330	548.500	536.615	525.460	517.861	514.486	517.861
42.5	515.581	528.803	528.165	528.803	515.581	504.973	493.270	485.671	482.266	485.671
45.0	483.117	497.039	496.006	497.039	483.117	473.361	460.138	452.722	450.350	452.722
47.5	451.019	462.934	462.934	462.934	451.019	440.411	427.888	420.349	418.070	420.349
50.0	417.553	430.775	429.681	430.775	417.553	407.613	395.333	389.133	386.397	389.133
52.5	385.394	397.917	396.731	397.917	385.394	375.971	365.211	358.189	356.487	358.189
55.0	354.876	365.454	366.032	365.454	354.876	344.876	335.727	330.620	327.185	330.620
57.5	322.930	332.505	334.967	332.505	322.930	314.844	305.999	299.919	297.822	299.919
60.0	293.537	301.257	303.355	301.257	293.537	284.266	276.606	271.621	269.311	271.621
62.5	264.022	271.499	273.444	271.499	264.022	255.158	246.449	243.258	241.972	243.258
65.0	235.607	241.483	243.559	241.483	235.607	228.884	220.911	218.282	216.512	218.282
67.5	207.497	212.883	214.099	212.883	207.497	200.609	194.925	192.372	191.180	192.372
70.0	179.182	185.192	187.144	185.192	179.182	174.821	170.554	167.319	166.620	167.319
72.5	153.519	153.993	158.747	153.993	153.519	148.847	144.856	142.716	142.297	142.716
75.0	128.439	131.847	133.099	131.847	128.439	124.011	122.390	119.451	119.664	119.451
77.5	104.180	107.387	109.244	107.387	104.180	100.933	99.192	97.067	97.220	97.067
80.0	81.073	83.741	85.182	83.741	81.073	79.629	77.456	76.346	75.705	76.346

CANDELA TABULATION - (Cont.)

82.5	60.413	61.486	62.178	61.486	60.413	58.953	58.048	57.297	59.260	57.297
85.0	38.162	39.573	40.287	39.573	38.162	37.810	37.162	36.415	35.424	36.415
87.5	18.672	19.545	21.052	19.545	18.672	18.013	17.058	17.138	17.332	17.138
90.0	1.924	1.693	1.738	1.693	1.924	1.821	2.192	2.319	1.763	2.319
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	874.523	874.523	874.523	874.523	874.523
2.5	872.129	871.367	870.884	881.583	868.538
5.0	866.628	866.568	866.417	877.146	864.349
7.5	857.936	858.117	858.812	869.729	857.966
10.0	845.895	847.206	850.398	864.132	852.187
12.5	830.275	836.168	836.259	848.572	835.836
15.0	813.373	818.203	818.354	831.339	820.089
17.5	794.344	796.563	798.902	812.340	802.094
20.0	770.274	772.794	778.295	791.824	782.339
22.5	742.153	747.170	754.799	767.596	760.632
25.0	713.217	720.966	729.175	744.922	739.905
27.5	684.921	694.067	702.759	716.650	709.390

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-ASY-F-KPL2008-103.007.IES****CANDELA TABULATION - (Cont.)**

30.0	653.881	664.489	673.188	684.310	682.273
32.5	622.786	634.888	641.845	658.384	652.793
35.0	596.101	601.876	612.788	627.834	624.031
37.5	558.075	569.747	581.115	595.128	593.882
40.0	525.460	536.615	548.500	562.330	560.020
42.5	493.270	504.973	515.581	528.803	528.165
45.0	460.138	473.361	483.117	497.039	496.006
47.5	427.888	440.411	451.019	462.934	462.934
50.0	395.333	407.613	417.553	430.775	429.681
52.5	365.211	375.971	385.394	397.917	396.731
55.0	335.727	344.876	354.876	365.454	366.032
57.5	305.999	314.844	322.930	332.505	334.967
60.0	276.606	284.266	293.537	301.257	303.355
62.5	246.449	255.158	264.022	271.499	273.444
65.0	220.911	228.884	235.607	241.483	243.559
67.5	194.925	200.609	207.497	212.883	214.099
70.0	170.554	174.821	179.182	185.192	187.144
72.5	144.856	148.847	153.519	153.993	158.747
75.0	122.390	124.011	128.439	131.847	133.099
77.5	99.192	100.933	104.180	107.387	109.244
80.0	77.456	79.629	81.073	83.741	85.182
82.5	58.048	58.953	60.413	61.486	62.178
85.0	37.162	37.810	38.162	39.573	40.287
87.5	17.058	18.013	18.672	19.545	21.052
90.0	2.192	1.821	1.924	1.693	1.738
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-ASY-F-KPL2008-103.007.IES

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-S-835-ASY-F-KPL2008-103.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	312.34	N.A.	4.90
0-30	644.97	N.A.	10.10
0-40	1021.97	N.A.	16.00
0-60	1696.62	N.A.	26.60
0-80	2056.72	N.A.	32.20
0-90	2099.29	N.A.	32.90
10-90	2017.02	N.A.	31.60
20-40	709.63	N.A.	11.10
20-50	1074.65	N.A.	16.80
40-70	901.76	N.A.	14.10
60-80	360.10	N.A.	5.60
70-80	132.98	N.A.	2.10
80-90	42.57	N.A.	0.70
90-110	413.09	N.A.	6.50
90-120	1114.32	N.A.	17.50
90-130	1980.19	N.A.	31.00
90-150	3372.36	N.A.	52.80
90-180	4284.2	N.A.	67.10
110-180	3871.11	N.A.	60.60
0-180	6383.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.27
10-20	230.07
20-30	332.63
30-40	377.00
40-50	365.02
50-60	309.63
60-70	227.11
70-80	132.98
80-90	42.57
90-100	77.21
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

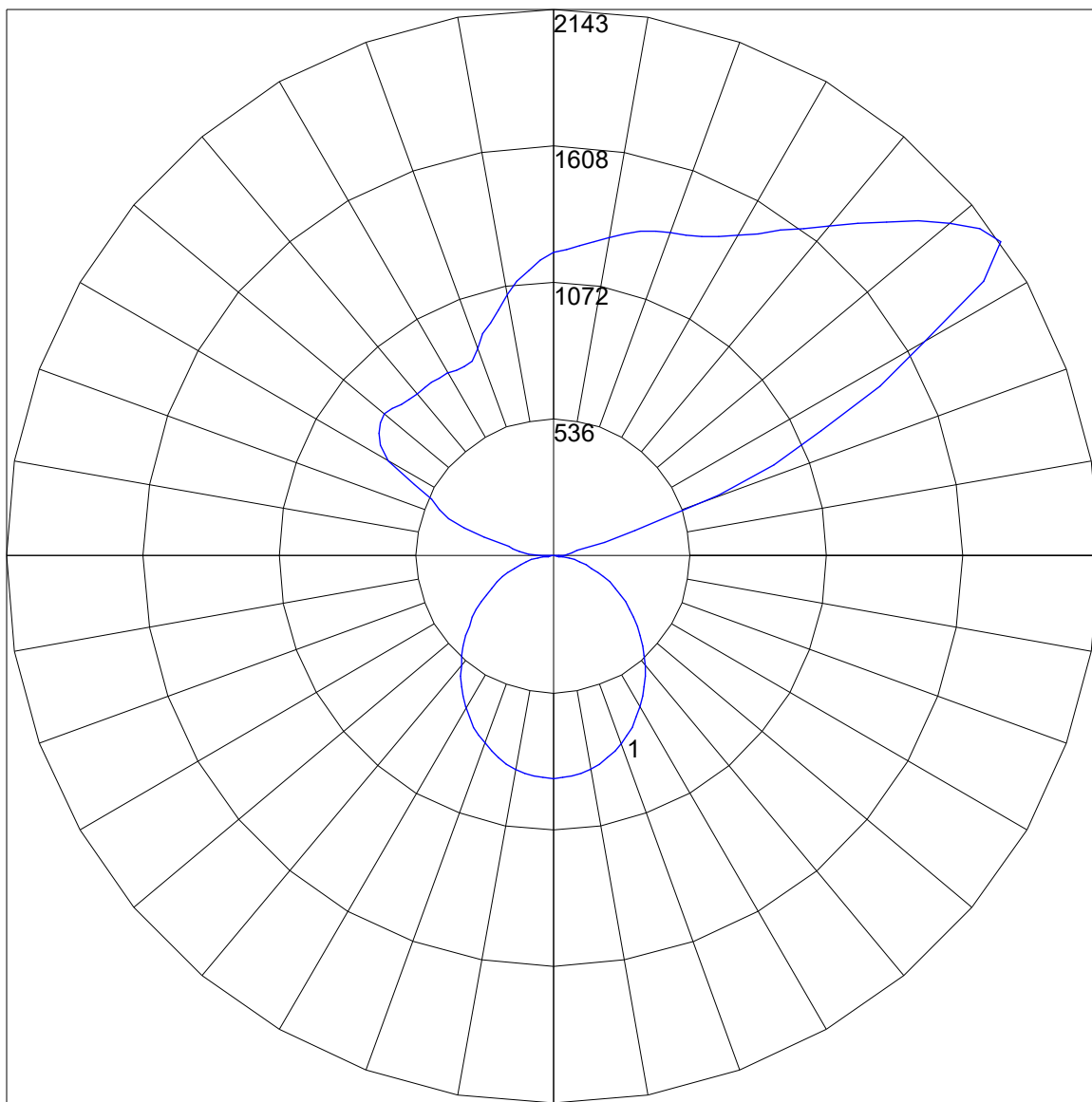
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-ASY-F-KPL2008-103.007.IES

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	86	78	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	66	54	46	41	59	49	42	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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.)