

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-S-V-835-ASY-F-KPL2008-103.012.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST] KPL2008-103.012 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-S-V-835-ASY-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 53.5 WATTS
[ABSOLUTE LUMENS] 6822
[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	6823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	53.5
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	1391.612	1387.073	1373.608	1373.434	1373.608	1387.073	1391.612
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	1121.484	1108.292	1103.154	1108.292	1121.484	1143.277
35.0	1123.727	1130.574	1103.480	1083.830	1073.431	1048.908	1047.211	1048.908	1073.431	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	874.574	868.443	874.574	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	14.432	14.633	15.581	15.648	16.116	17.107	18.949	26.262	33.381	35.637
95.0	29.800	29.563	29.667	29.764	29.606	58.640	43.400	62.920	61.583	63.589
97.5	42.664	42.196	41.886	41.905	78.666	110.028	68.951	89.851	84.562	83.833
100.0	54.032	52.823	55.625	81.492	155.118	161.319	95.985	124.138	126.084	119.640
102.5	67.018	68.526	115.871	231.924	210.488	201.855	123.999	153.258	162.802	171.070
105.0	148.941	179.016	236.629	335.453	306.394	238.604	152.273	176.784	205.843	210.767
107.5	239.851	367.005	447.250	413.389	387.369	276.970	181.751	198.974	248.094	244.994
110.0	491.569	522.451	574.307	547.862	450.898	309.130	210.846	220.920	279.949	296.789
112.5	665.432	683.065	699.966	694.435	492.723	340.012	243.139	245.176	301.895	346.152
115.0	822.767	841.609	865.746	812.430	525.308	373.631	271.986	268.520	320.680	390.956
117.5	1025.450	1031.833	1053.837	857.537	561.053	401.777	300.558	290.527	336.912	409.255
120.0	1189.102	1214.024	1199.130	869.451	585.857	428.709	329.495	312.352	351.806	427.675
122.5	1420.963	1407.465	1225.818	874.988	608.109	452.174	354.724	333.203	368.524	440.198
125.0	1521.881	1453.974	1202.473	878.815	626.038	473.938	379.649	357.642	384.512	447.675
127.5	1497.442	1412.391	1170.012	877.539	641.785	498.194	405.851	385.181	399.528	455.397
130.0	1440.536	1356.156	1139.619	876.324	656.921	520.383	432.903	407.188	415.212	464.819
132.5	1378.776	1302.720	1107.581	872.740	669.265	544.153	460.381	431.201	430.411	476.127

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-ASY-F-KPL2008-103.012.IES

CANDELA TABULATION - (Cont.)

135.0	1314.332	1250.076	1079.491	868.786	682.823	567.984	488.528	453.633	443.663	487.130
137.5	1254.029	1201.687	1050.433	864.470	699.477	591.693	515.824	476.735	460.381	498.194
140.0	1197.244	1152.198	1022.953	860.396	715.224	616.802	545.247	500.930	475.275	509.562
142.5	1147.030	1108.367	999.367	856.382	731.696	640.933	571.692	527.132	498.680	519.532
145.0	1105.937	1072.316	979.546	856.020	748.839	664.586	599.414	554.671	527.861	527.314
147.5	1064.596	1037.243	959.791	859.362	766.532	689.630	628.474	587.012	556.312	536.554
150.0	1030.552	1008.307	945.078	863.497	782.460	712.304	655.283	617.956	578.562	549.199
152.5	1000.158	983.620	937.177	869.451	797.415	734.857	682.884	645.920	601.055	575.218
155.0	981.432	968.363	931.036	875.593	812.370	756.625	709.022	672.064	623.125	606.042
157.5	967.692	957.053	927.874	880.338	824.163	776.929	732.790	709.511	649.444	628.293
160.0	956.267	948.360	925.444	882.218	834.010	794.435	754.920	724.097	680.025	649.383
162.5	946.541	938.936	919.666	881.855	841.367	810.792	775.043	749.812	712.425	674.373
165.0	933.406	927.814	911.342	878.815	847.569	824.345	792.676	772.003	737.233	703.732
167.5	917.356	912.738	900.032	874.196	851.824	836.138	809.269	793.522	759.846	740.388
170.0	899.609	895.293	888.057	868.968	854.255	844.287	821.612	810.913	782.702	762.276
172.5	881.372	880.338	875.714	862.705	854.376	849.818	830.244	825.137	803.007	786.045
175.0	867.384	865.256	864.289	856.020	852.677	852.496	837.111	837.414	820.639	809.692
177.5	853.892	852.369	853.952	848.240	849.207	852.858	840.636	845.441	834.923	827.627
180.0	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162

**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	1391.612	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	1121.484	1108.292	1103.154	1108.292
35.0	1103.480	1130.574	1123.727	1130.574	1103.480	1083.830	1073.431	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	874.574	868.443	874.574
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-ASY-F-KPL2008-103.012.IES

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	36.749	35.922	37.023	35.922	36.749	35.637	33.381	26.262	18.949	17.107
95.0	65.352	66.690	67.601	66.690	65.352	63.589	61.583	62.920	43.400	58.640
97.5	89.851	92.465	93.134	92.465	89.851	83.833	84.562	89.851	68.951	110.028
100.0	106.205	110.764	112.466	110.764	106.205	119.640	126.084	124.138	95.985	161.319
102.5	162.985	134.048	127.056	134.048	162.985	171.070	162.802	153.258	123.999	201.855
105.0	222.500	211.011	199.034	211.011	222.500	210.767	205.843	176.784	152.273	238.604
107.5	263.961	261.225	261.043	261.225	263.961	244.994	248.094	198.974	181.751	276.970
110.0	296.242	306.333	307.853	306.333	296.242	296.789	279.949	220.920	210.846	309.130
112.5	331.137	338.067	341.046	338.067	331.137	346.152	301.895	245.176	243.139	340.012
115.0	403.844	375.029	373.631	375.029	403.844	390.956	320.680	268.520	271.986	373.631
117.5	456.977	459.104	433.208	459.104	456.977	409.255	336.912	290.527	300.558	401.777
120.0	488.711	526.462	530.475	526.462	488.711	427.675	351.806	312.352	329.495	428.709
122.5	511.265	555.765	570.841	555.765	511.265	440.198	368.524	333.203	354.724	452.174
125.0	526.037	576.252	591.632	576.252	526.037	447.675	384.512	357.642	379.649	473.938
127.5	532.116	591.632	605.250	591.632	532.116	455.397	399.528	385.181	405.851	498.194
130.0	531.812	594.611	613.882	594.611	531.812	464.819	415.212	407.188	432.903	520.383
132.5	532.724	587.194	606.465	587.194	532.724	476.127	430.411	431.201	460.381	544.153
135.0	536.676	579.595	596.374	579.595	536.676	487.130	443.663	453.633	488.528	567.984
137.5	541.721	577.468	590.660	577.468	541.721	498.194	460.381	476.735	515.824	591.693
140.0	548.044	577.954	588.958	577.954	548.044	509.562	475.275	500.930	545.247	616.802
142.5	552.968	579.535	588.958	579.535	552.968	519.532	498.680	527.132	571.692	640.933
145.0	558.379	579.960	588.836	579.960	558.379	527.314	527.861	554.671	599.414	664.586
147.5	562.209	579.899	587.498	579.899	562.209	536.554	556.312	587.012	628.474	689.630
150.0	564.397	580.021	586.890	580.021	564.397	549.199	578.562	617.956	655.283	712.304
152.5	567.984	578.076	583.972	578.076	567.984	575.218	601.055	645.920	682.884	734.857
155.0	577.650	578.866	582.513	578.866	577.650	606.042	623.125	672.064	709.022	756.625
157.5	605.861	588.045	587.741	588.045	605.861	628.293	649.444	709.511	732.790	776.929
160.0	636.677	618.809	610.600	618.809	636.677	649.383	680.025	724.097	754.920	794.435
162.5	659.539	649.994	647.195	649.994	659.539	674.373	712.425	749.812	775.043	810.792
165.0	684.764	672.064	670.419	672.064	684.764	703.732	737.233	772.003	792.676	824.345
167.5	716.439	700.752	699.235	700.752	716.439	740.388	759.846	793.522	809.269	836.138
170.0	754.678	741.301	737.656	741.301	754.678	762.276	782.702	810.913	821.612	844.287
172.5	778.265	768.841	769.512	768.841	778.265	786.045	803.007	825.137	830.244	849.818
175.0	804.409	796.261	798.328	796.261	804.409	809.692	820.639	837.414	837.111	852.496
177.5	827.748	822.096	822.519	822.096	827.748	827.627	834.923	845.441	840.636	852.858
180.0	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162	843.162

**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	1391.612	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-S-V-835-ASY-F-KPL2008-103.012.IES****CANDELA TABULATION - (Cont.)**

30.0	1177.478	1196.582	1212.246	1232.275	1228.606
32.5	1121.484	1143.277	1155.806	1185.588	1175.519
35.0	1073.431	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	16.116	15.648	15.581	14.633	14.432
95.0	29.606	29.764	29.667	29.563	29.800
97.5	78.666	41.905	41.886	42.196	42.664
100.0	155.118	81.493	55.625	52.823	54.032
102.5	210.488	231.924	115.871	68.526	67.018
105.0	306.394	335.453	236.629	179.016	148.941
107.5	387.369	413.389	447.250	367.005	239.851
110.0	450.898	547.862	574.307	522.451	491.569
112.5	492.723	694.435	699.966	683.065	665.432
115.0	525.308	812.430	865.746	841.609	822.767
117.5	561.053	857.537	1053.837	1031.833	1025.450
120.0	585.857	869.451	1199.130	1214.024	1189.102
122.5	608.109	874.988	1225.818	1407.465	1420.963
125.0	626.038	878.815	1202.473	1453.974	1521.881
127.5	641.785	877.539	1170.012	1412.391	1497.442
130.0	656.921	876.324	1139.619	1356.156	1440.536
132.5	669.265	872.740	1107.581	1302.720	1378.776
135.0	682.823	868.786	1079.491	1250.076	1314.332
137.5	699.477	864.470	1050.433	1201.687	1254.029
140.0	715.224	860.396	1022.953	1152.198	1197.244
142.5	731.696	856.382	999.367	1108.367	1147.030
145.0	748.839	856.020	979.546	1072.316	1105.937
147.5	766.532	859.362	959.791	1037.243	1064.596
150.0	782.460	863.497	945.078	1008.307	1030.552
152.5	797.415	869.451	937.177	983.620	1000.158
155.0	812.370	875.593	931.036	968.363	981.432
157.5	824.163	880.338	927.874	957.053	967.692
160.0	834.010	882.218	925.444	948.360	956.267
162.5	841.367	881.855	919.666	938.936	946.541
165.0	847.569	878.815	911.342	927.814	933.406
167.5	851.824	874.196	900.032	912.738	917.356

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-ASY-F-KPL2008-103.012.IES****CANDELA TABULATION - (Cont.)**

170.0	854.255	868.968	888.057	895.293	899.609
172.5	854.376	862.705	875.714	880.338	881.372
175.0	852.677	856.020	864.289	865.256	867.384
177.5	849.207	848.240	853.952	852.369	853.892
180.0	843.162	843.162	843.162	843.162	843.162

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-ASY-F-KPL2008-103.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	562.45	N.A.	8.20
0-30	1161.43	N.A.	17.00
0-40	1840.32	N.A.	27.00
0-60	3055.2	N.A.	44.80
0-80	3703.65	N.A.	54.30
0-90	3780.31	N.A.	55.40
10-90	3632.16	N.A.	53.20
20-40	1277.87	N.A.	18.70
20-50	1935.18	N.A.	28.40
40-70	1623.85	N.A.	23.80
60-80	648.45	N.A.	9.50
70-80	239.47	N.A.	3.50
80-90	76.66	N.A.	1.10
90-110	293.60	N.A.	4.30
90-120	791.52	N.A.	11.60
90-130	1406.32	N.A.	20.60
90-150	2394.83	N.A.	35.10
90-180	3042.28	N.A.	44.60
110-180	2748.68	N.A.	40.30
0-180	6822.59	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	55.11
100-110	238.49
110-120	497.91
120-130	614.81
130-140	542.47
140-150	446.04
150-160	343.27
160-170	224.90
170-180	79.27

IES INDOOR REPORT

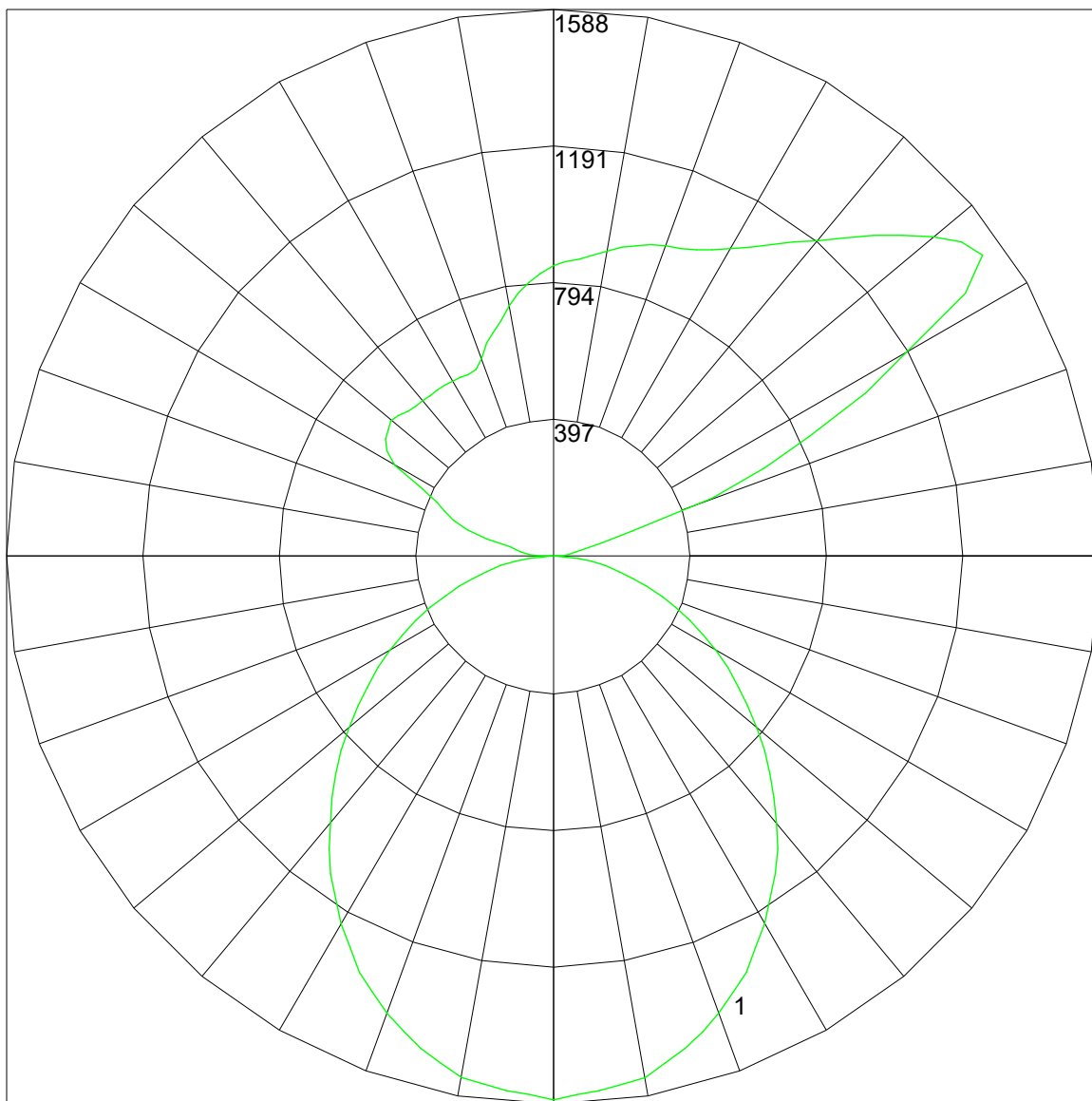
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-ASY-F-KPL2008-103.012.IES

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	71	84	77	72	67	67	62	59	57	54	51	48	46	44	39
3	82	73	66	60	76	68	62	56	59	54	50	50	47	43	42	40	37	33
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	39	33	29	33	29	25	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	25	31	26	23	26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

POLAR GRAPH



Maximum Candela = 1587.514 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)