

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-H-835-ASY-F-KPL2008-103.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-103.013 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-H-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] 5998
[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	5999
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	46
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	10669	10182	9687
55	9706	9145	8676
65	8766	8237	7792
75	7822	7288	7032
85	7031	6598	6182

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	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637
2.5	1223.209	1241.581	1226.512	1227.193	1228.266	1226.470	1230.062	1226.470	1228.266	1227.193
5.0	1217.309	1235.332	1220.221	1220.434	1220.519	1218.765	1222.187	1218.765	1220.519	1220.434
7.5	1208.319	1224.886	1209.511	1208.532	1208.277	1205.919	1208.915	1205.919	1208.277	1208.532
10.0	1200.181	1217.003	1197.661	1193.166	1191.318	1187.385	1190.510	1187.385	1191.318	1193.166
12.5	1177.152	1195.090	1177.748	1177.621	1169.320	1165.166	1166.707	1165.166	1169.320	1177.621
15.0	1154.975	1170.818	1152.532	1152.319	1145.517	1138.409	1139.566	1138.409	1145.517	1152.319
17.5	1129.631	1144.061	1125.136	1121.842	1118.717	1107.029	1108.399	1107.029	1118.717	1121.842
20.0	1101.810	1115.167	1096.115	1088.368	1084.818	1074.287	1074.151	1074.287	1084.818	1088.368
22.5	1071.239	1081.046	1063.024	1052.280	1045.214	1037.765	1036.565	1037.765	1045.214	1052.280
25.0	1042.047	1049.113	1026.936	1015.375	1004.461	996.799	996.842	996.799	1004.461	1015.375
27.5	999.072	1009.297	989.733	977.491	964.611	955.621	952.232	955.621	964.611	977.491
30.0	960.882	963.751	948.086	935.836	920.895	911.437	908.653	911.437	920.895	935.836
32.5	919.363	927.237	903.945	894.146	877.103	866.785	862.767	866.785	877.103	894.146
35.0	878.857	884.212	863.022	847.654	839.520	820.342	819.014	820.342	839.520	847.654
37.5	836.395	838.151	818.415	802.405	785.966	774.836	771.668	774.836	785.966	802.405
40.0	788.706	791.959	772.482	755.743	740.033	729.331	724.579	729.331	740.033	755.743
42.5	743.843	744.741	726.120	711.180	694.698	683.996	679.201	683.996	694.698	711.180
45.0	698.551	700.007	680.400	666.659	648.037	637.592	634.252	637.592	648.037	666.659
47.5	651.975	651.975	635.195	620.254	602.617	592.000	588.790	592.000	602.617	620.254
50.0	605.143	606.684	588.062	574.064	556.769	548.036	544.183	548.036	556.769	574.064
52.5	558.738	560.408	542.771	529.500	514.346	504.457	502.059	504.457	514.346	529.500
55.0	515.502	514.688	499.791	485.707	472.822	465.630	460.792	465.630	472.822	485.707
57.5	471.751	468.284	454.799	443.412	430.954	422.392	419.439	422.392	430.954	443.412
60.0	427.231	424.276	413.403	400.347	389.559	382.538	379.285	382.538	389.559	400.347
62.5	385.106	382.367	371.836	359.353	347.088	342.594	340.783	342.594	347.088	359.353
65.0	343.017	340.093	331.818	322.349	311.120	307.418	304.926	307.418	311.120	322.349
67.5	301.527	299.814	292.229	282.528	274.523	270.927	269.249	270.927	274.523	282.528
70.0	263.564	260.816	252.352	246.210	240.200	235.644	234.660	235.644	240.200	246.210
72.5	223.572	216.877	216.209	209.629	204.009	200.995	200.404	200.995	204.009	209.629
75.0	187.451	185.687	180.888	174.651	172.369	168.229	168.529	168.229	172.369	174.651
77.5	153.854	151.239	146.722	142.150	139.697	136.705	136.919	136.705	139.697	142.150
80.0	119.967	117.937	114.179	112.146	109.085	107.522	106.619	107.522	109.085	112.146
82.5	87.569	86.593	85.082	83.027	81.752	80.695	83.460	80.695	81.752	83.027
85.0	56.738	55.733	53.746	53.250	52.338	51.285	49.889	51.285	52.338	53.250
87.5	29.649	27.526	26.297	25.369	24.024	24.136	24.409	24.136	24.024	25.369
90.0	2.448	2.385	2.710	2.564	3.087	3.267	2.483	3.267	3.087	2.564
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

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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	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637	1231.637
2.5	1226.512	1241.581	1223.209	1241.581	1226.512	1227.193	1228.266	1226.470	1230.062	1226.470
5.0	1220.221	1235.332	1217.309	1235.332	1220.221	1220.434	1220.519	1218.765	1222.187	1218.765
7.5	1209.511	1224.886	1208.319	1224.886	1209.511	1208.532	1208.277	1205.919	1208.915	1205.919
10.0	1197.661	1217.003	1200.181	1217.003	1197.661	1193.166	1191.318	1187.385	1190.510	1187.385
12.5	1177.748	1195.090	1177.152	1195.090	1177.748	1177.621	1169.320	1165.166	1166.707	1165.166
15.0	1152.532	1170.818	1154.975	1170.818	1152.532	1152.319	1145.517	1138.409	1139.566	1138.409
17.5	1125.136	1144.061	1129.631	1144.061	1125.136	1121.842	1118.717	1107.029	1108.399	1107.029
20.0	1096.115	1115.167	1101.810	1115.167	1096.115	1088.368	1084.818	1074.287	1074.151	1074.287
22.5	1063.024	1081.046	1071.239	1081.046	1063.024	1052.280	1045.214	1037.765	1036.565	1037.765
25.0	1026.936	1049.113	1042.047	1049.113	1026.936	1015.375	1004.461	996.799	996.842	996.799
27.5	989.733	1009.297	999.072	1009.297	989.733	977.491	964.611	955.621	952.232	955.621
30.0	948.086	963.751	960.882	963.751	948.086	935.836	920.895	911.437	908.653	911.437
32.5	903.945	927.237	919.363	927.237	903.945	894.146	877.103	866.785	862.767	866.785
35.0	863.022	884.212	878.857	884.212	863.022	847.654	839.520	820.342	819.014	820.342
37.5	818.415	838.151	836.395	838.151	818.415	802.405	785.966	774.836	771.668	774.836
40.0	772.482	791.959	788.706	791.959	772.482	755.743	740.033	729.331	724.579	729.331
42.5	726.120	744.741	743.843	744.741	726.120	711.180	694.698	683.996	679.201	683.996
45.0	680.400	700.007	698.551	700.007	680.400	666.659	648.037	637.592	634.252	637.592
47.5	635.195	651.975	651.975	651.975	635.195	620.254	602.617	592.000	588.790	592.000
50.0	588.062	606.684	605.143	606.684	588.062	574.064	556.769	548.036	544.183	548.036
52.5	542.771	560.408	558.738	560.408	542.771	529.500	514.346	504.457	502.059	504.457
55.0	499.791	514.688	515.502	514.688	499.791	485.707	472.822	465.630	460.792	465.630
57.5	454.799	468.284	471.751	468.284	454.799	443.412	430.954	422.392	419.439	422.392
60.0	413.403	424.276	427.231	424.276	413.403	400.347	389.559	382.538	379.285	382.538
62.5	371.836	382.367	385.106	382.367	371.836	359.353	347.088	342.594	340.783	342.594
65.0	331.818	340.093	343.017	340.093	331.818	322.349	311.120	307.418	304.926	307.418
67.5	292.229	299.814	301.527	299.814	292.229	282.528	274.523	270.927	269.249	270.927
70.0	252.352	260.816	263.564	260.816	252.352	246.210	240.200	235.644	234.660	235.644
72.5	216.209	216.877	223.572	216.877	216.209	209.629	204.009	200.995	200.404	200.995
75.0	180.888	185.687	187.451	185.687	180.888	174.651	172.369	168.229	168.529	168.229
77.5	146.722	151.239	153.854	151.239	146.722	142.150	139.697	136.705	136.919	136.705
80.0	114.179	117.937	119.967	117.937	114.179	112.146	109.085	107.522	106.619	107.522

CANDELA TABULATION - (Cont.)

82.5	85.082	86.593	87.569	86.593	85.082	83.027	81.752	80.695	83.460	80.695
85.0	53.746	55.733	56.738	55.733	53.746	53.250	52.338	51.285	49.889	51.285
87.5	26.297	27.526	29.649	27.526	26.297	25.369	24.024	24.136	24.409	24.136
90.0	2.710	2.385	2.448	2.385	2.710	2.564	3.087	3.267	2.483	3.267
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	1231.637	1231.637	1231.637	1231.637	1231.637
2.5	1228.266	1227.193	1226.512	1241.581	1223.209
5.0	1220.519	1220.434	1220.221	1235.332	1217.309
7.5	1208.277	1208.532	1209.511	1224.886	1208.319
10.0	1191.318	1193.166	1197.661	1217.003	1200.181
12.5	1169.320	1177.621	1177.748	1195.090	1177.152
15.0	1145.517	1152.319	1152.532	1170.818	1154.975
17.5	1118.717	1121.842	1125.136	1144.061	1129.631
20.0	1084.818	1088.368	1096.115	1115.167	1101.810
22.5	1045.214	1052.280	1063.024	1081.046	1071.239
25.0	1004.461	1015.375	1026.936	1049.113	1042.047
27.5	964.611	977.491	989.733	1009.297	999.072

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-ASY-F-KPL2008-103.013.IES****CANDELA TABULATION - (Cont.)**

30.0	920.895	935.836	948.086	963.751	960.882
32.5	877.103	894.146	903.945	927.237	919.363
35.0	839.520	847.654	863.022	884.212	878.857
37.5	785.966	802.405	818.415	838.151	836.395
40.0	740.033	755.743	772.482	791.959	788.706
42.5	694.698	711.180	726.120	744.741	743.843
45.0	648.037	666.659	680.400	700.007	698.551
47.5	602.617	620.254	635.195	651.975	651.975
50.0	556.769	574.064	588.062	606.684	605.143
52.5	514.346	529.500	542.771	560.408	558.738
55.0	472.822	485.707	499.791	514.688	515.502
57.5	430.954	443.412	454.799	468.284	471.751
60.0	389.559	400.347	413.403	424.276	427.231
62.5	347.088	359.353	371.836	382.367	385.106
65.0	311.120	322.349	331.818	340.093	343.017
67.5	274.523	282.528	292.229	299.814	301.527
70.0	240.200	246.210	252.352	260.816	263.564
72.5	204.009	209.629	216.209	216.877	223.572
75.0	172.369	174.651	180.888	185.687	187.451
77.5	139.697	142.150	146.722	151.239	153.854
80.0	109.085	112.146	114.179	117.937	119.967
82.5	81.752	83.027	85.082	86.593	87.569
85.0	52.338	53.250	53.746	55.733	56.738
87.5	24.024	25.369	26.297	27.526	29.649
90.0	3.087	2.564	2.710	2.385	2.448
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-H-835-ASY-F-KPL2008-103.013.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-H-835-ASY-F-KPL2008-103.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	439.89	N.A.	7.30
0-30	908.34	N.A.	15.10
0-40	1439.3	N.A.	24.00
0-60	2389.44	N.A.	39.80
0-80	2896.59	N.A.	48.30
0-90	2956.54	N.A.	49.30
10-90	2840.68	N.A.	47.40
20-40	999.41	N.A.	16.70
20-50	1513.48	N.A.	25.20
40-70	1270.00	N.A.	21.20
60-80	507.15	N.A.	8.50
70-80	187.29	N.A.	3.10
80-90	59.95	N.A.	1.00
90-110	293.50	N.A.	4.90
90-120	791.41	N.A.	13.20
90-130	1406.22	N.A.	23.40
90-150	2394.73	N.A.	39.90
90-180	3042.18	N.A.	50.70
110-180	2748.68	N.A.	45.80
0-180	5998.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.86
10-20	324.03
20-30	468.46
30-40	530.96
40-50	514.07
50-60	436.07
60-70	319.86
70-80	187.29
80-90	59.95
90-100	55.01
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

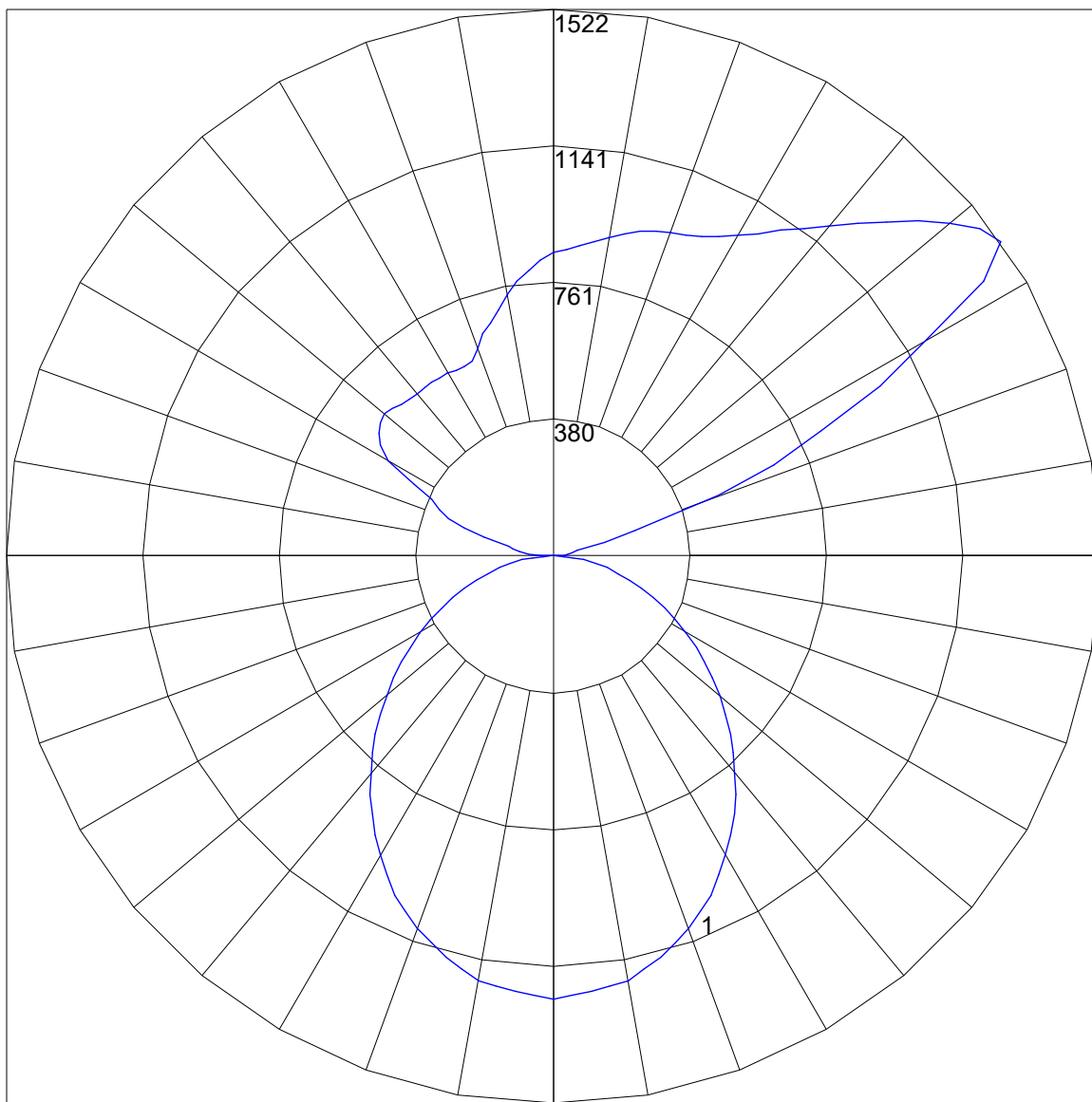
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-ASY-F-KPL2008-103.013.IES

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

POLAR GRAPH



Maximum Candela = 1521.881 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)