

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-WSO-KPL2008-102.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.013 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-S-H-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.0 WATTS
[ABSOLUTELUMENS]5925
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10733	10243	9745
55	9764	9200	8728
65	8818	8287	7839
75	7869	7331	7074
85	7073	6638	6219

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	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1230.546	1249.028	1233.869	1234.554	1235.633	1233.826	1237.440	1233.826	1235.633	1234.554
5.0	1224.611	1242.741	1227.540	1227.754	1227.839	1226.075	1229.518	1226.075	1227.839	1227.754
7.5	1215.567	1232.233	1216.766	1215.781	1215.524	1213.152	1216.166	1213.152	1215.524	1215.781
10.0	1207.379	1224.302	1204.844	1200.322	1198.464	1194.507	1197.650	1194.507	1198.464	1200.322
12.5	1184.213	1202.258	1184.812	1184.684	1176.334	1172.154	1173.705	1172.154	1176.334	1184.684
15.0	1161.903	1177.841	1159.445	1159.231	1152.388	1145.237	1146.401	1145.237	1152.388	1159.231
17.5	1136.407	1150.923	1131.885	1128.571	1125.427	1113.669	1115.048	1113.669	1125.427	1128.571
20.0	1108.419	1121.856	1102.689	1094.896	1091.324	1080.730	1080.593	1080.730	1091.324	1094.896
22.5	1077.664	1087.530	1069.400	1058.592	1051.483	1043.989	1042.782	1043.989	1051.483	1058.592
25.0	1048.297	1055.406	1033.096	1021.465	1010.486	1002.778	1002.821	1002.778	1010.486	1021.465
27.5	1005.065	1015.350	995.670	983.354	970.396	961.352	957.944	961.352	970.396	983.354
30.0	966.645	969.531	953.773	941.449	926.419	916.904	914.103	916.904	926.419	941.449
32.5	924.877	932.799	909.367	899.510	882.364	871.984	867.941	871.984	882.364	899.510
35.0	884.128	889.515	868.198	852.738	844.556	825.262	823.927	825.262	844.556	852.738
37.5	841.412	843.178	823.324	807.218	790.680	779.483	776.297	779.483	790.680	807.218
40.0	793.437	796.710	777.115	760.276	744.472	733.705	728.925	733.705	744.472	760.276
42.5	748.304	749.208	730.475	715.445	698.865	688.099	683.275	688.099	698.865	715.445
45.0	702.741	704.206	684.481	670.657	651.924	641.416	638.057	641.416	651.924	670.657
47.5	655.886	655.886	639.005	623.974	606.232	595.551	592.321	595.551	606.232	623.974
50.0	608.773	610.323	591.589	577.507	560.108	551.323	547.447	551.323	560.108	577.507
52.5	562.089	563.769	546.026	532.676	517.431	507.483	505.071	507.483	517.431	532.676
55.0	518.594	517.775	502.788	488.620	475.658	468.422	463.556	468.422	475.658	488.620
57.5	474.581	471.093	457.527	446.071	433.539	424.926	421.955	424.926	433.539	446.071
60.0	429.793	426.821	415.883	402.748	391.895	384.832	381.560	384.832	391.895	402.748
62.5	387.416	384.660	374.066	361.508	349.170	344.648	342.827	344.648	349.170	361.508
65.0	345.074	342.133	333.809	324.282	312.986	309.262	306.755	309.262	312.986	324.282
67.5	303.336	301.613	293.982	284.223	276.170	272.552	270.864	272.552	276.170	284.223
70.0	265.145	262.381	253.866	247.687	241.640	237.058	236.068	237.058	241.640	247.687
72.5	224.913	218.178	217.506	210.887	205.233	202.201	201.606	202.201	205.233	210.887
75.0	188.575	186.800	181.973	175.699	173.402	169.238	169.540	169.238	173.402	175.699
77.5	154.777	152.146	147.602	143.003	140.535	137.525	137.741	137.525	140.535	143.003
80.0	120.687	118.645	114.864	112.819	109.740	108.167	107.259	108.167	109.740	112.819
82.5	88.094	87.113	85.593	83.525	82.242	81.179	83.960	81.179	82.242	83.525
85.0	57.079	56.067	54.068	53.569	52.652	51.592	50.189	51.592	52.652	53.569
87.5	29.827	27.691	26.455	25.521	24.168	24.281	24.556	24.281	24.168	25.521
90.0	1.749	1.703	1.936	1.832	2.205	2.333	1.774	2.333	2.205	1.832
92.5	22.811	27.417	28.508	30.936	33.273	32.159	35.838	32.159	33.273	30.936
95.0	45.605	58.191	54.705	57.056	58.506	57.971	59.066	57.971	58.506	57.056
97.5	67.377	88.375	90.543	80.514	81.623	83.070	83.583	83.070	81.623	80.514
100.0	91.363	119.324	149.890	144.046	104.401	103.542	106.218	103.542	104.401	144.046
102.5	115.868	149.315	191.626	236.779	188.062	148.120	133.696	148.120	188.062	236.779
105.0	141.040	179.163	234.253	320.616	325.155	257.203	226.312	257.203	325.155	320.616
107.5	166.733	210.224	279.537	365.413	457.210	402.173	382.642	402.173	457.210	365.413
110.0	193.990	239.396	321.656	426.754	522.710	545.552	540.567	545.552	522.710	426.754
112.5	221.260	266.033	351.837	514.698	576.254	613.587	627.902	613.587	576.254	514.698
115.0	249.050	293.003	381.681	581.451	669.855	672.391	670.834	672.391	669.855	581.451
117.5	278.143	320.647	409.906	607.504	784.490	785.438	770.886	785.438	784.490	607.504
120.0	301.015	344.314	436.417	623.530	859.226	923.990	916.072	923.990	859.226	623.530
122.5	322.298	364.099	458.831	637.747	876.107	1019.858	1048.907	1019.858	876.107	637.747
125.0	342.235	383.149	479.625	650.438	873.596	1043.860	1097.769	1043.860	873.596	650.438
127.5	360.154	399.631	497.421	661.780	867.545	1032.762	1090.982	1032.762	867.545	661.780
130.0	376.666	415.470	512.374	672.422	860.631	1014.720	1069.820	1014.720	860.631	672.422
132.5	392.384	430.607	525.859	679.731	854.179	995.272	1046.092	995.272	854.179	679.731

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CANDELA TABULATION - (Cont.)

135.0	408.162	445.346	537.479	684.438	847.453	973.593	1021.202	973.593	847.453	684.438
137.5	422.901	459.076	546.439	686.122	837.517	952.309	995.515	952.309	837.517	686.122
140.0	438.496	473.203	554.909	685.265	825.099	928.672	969.525	928.672	825.099	685.265
142.5	453.847	486.413	562.156	681.811	810.237	903.320	939.983	903.320	810.237	681.811
145.0	469.380	499.225	568.027	676.703	792.140	876.928	908.854	876.928	792.140	676.703
147.5	482.835	511.732	573.073	669.606	772.443	846.936	876.016	846.936	772.443	669.606
150.0	496.902	523.046	576.895	662.023	751.099	816.446	841.397	816.446	751.099	662.023
152.5	509.866	533.871	580.228	653.157	729.146	784.922	807.641	784.922	729.146	653.157
155.0	521.670	543.840	582.491	644.655	707.710	753.823	773.574	753.823	707.710	644.655
157.5	533.718	553.288	583.989	635.297	687.284	720.979	740.615	720.979	687.284	635.297
160.0	544.114	561.483	584.356	626.552	669.667	697.865	709.851	697.865	669.667	626.552
162.5	552.493	568.761	584.876	617.899	651.539	673.583	682.881	673.583	651.539	617.899
165.0	560.994	575.152	584.906	609.488	634.901	651.722	658.478	651.722	634.901	609.488
167.5	568.211	580.533	584.998	602.183	619.918	631.143	637.686	631.143	619.918	602.183
170.0	574.081	585.365	585.243	596.282	607.381	613.800	617.686	613.800	607.381	596.282
172.5	578.668	588.882	585.396	591.175	597.321	600.410	603.009	600.410	597.321	591.175
175.0	581.543	591.175	585.610	588.209	591.236	591.144	592.857	591.144	591.236	588.209
177.5	583.133	592.643	585.610	586.282	587.322	586.191	586.925	586.191	587.322	586.282
180.0	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649

**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	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1233.869	1249.028	1230.546	1249.028	1233.869	1234.554	1235.633	1233.826	1237.440	1233.826
5.0	1227.540	1242.741	1224.611	1242.741	1227.540	1227.754	1227.839	1226.075	1229.518	1226.075
7.5	1216.766	1232.233	1215.567	1232.233	1216.766	1215.781	1215.524	1213.152	1216.166	1213.152
10.0	1204.844	1224.302	1207.379	1224.302	1204.844	1200.322	1198.464	1194.507	1197.650	1194.507
12.5	1184.812	1202.258	1184.213	1202.258	1184.812	1184.684	1176.334	1172.154	1173.705	1172.154
15.0	1159.445	1177.841	1161.903	1177.841	1159.445	1159.231	1152.388	1145.237	1146.401	1145.237
17.5	1131.885	1150.923	1136.407	1150.923	1131.885	1128.571	1125.427	1113.669	1115.048	1113.669
20.0	1102.689	1121.856	1108.419	1121.856	1102.689	1094.896	1091.324	1080.730	1080.593	1080.730
22.5	1069.400	1087.530	1077.664	1087.530	1069.400	1058.592	1051.483	1043.989	1042.782	1043.989
25.0	1033.096	1055.406	1048.297	1055.406	1033.096	1021.465	1010.486	1002.778	1002.821	1002.778
27.5	995.670	1015.350	1005.065	1015.350	995.670	983.354	970.396	961.352	957.944	961.352
30.0	953.773	969.531	966.645	969.531	953.773	941.449	926.419	916.904	914.103	916.904
32.5	909.367	932.799	924.877	932.799	909.367	899.510	882.364	871.984	867.941	871.984
35.0	868.198	889.515	884.128	889.515	868.198	852.738	844.556	825.262	823.927	825.262
37.5	823.324	843.178	841.412	843.178	823.324	807.218	790.680	779.483	776.297	779.483
40.0	777.115	796.710	793.437	796.710	777.115	760.276	744.472	733.705	728.925	733.705
42.5	730.475	749.208	748.304	749.208	730.475	715.445	698.865	688.099	683.275	688.099
45.0	684.481	704.206	702.741	704.206	684.481	670.657	651.924	641.416	638.057	641.416
47.5	639.005	655.886	655.886	655.886	639.005	623.974	606.232	595.551	592.321	595.551
50.0	591.589	610.323	608.773	610.323	591.589	577.507	560.108	551.323	547.447	551.323
52.5	546.026	563.769	562.089	563.769	546.026	532.676	517.431	507.483	505.071	507.483
55.0	502.788	517.775	518.594	517.775	502.788	488.620	475.658	468.422	463.556	468.422
57.5	457.527	471.093	474.581	471.093	457.527	446.071	433.539	424.926	421.955	424.926
60.0	415.883	426.821	429.793	426.821	415.883	402.748	391.895	384.832	381.560	384.832
62.5	374.066	384.660	387.416	384.660	374.066	361.508	349.170	344.648	342.827	344.648
65.0	333.809	342.133	345.074	342.133	333.809	324.282	312.986	309.262	306.755	309.262
67.5	293.982	301.613	303.336	301.613	293.982	284.223	276.170	272.552	270.864	272.552
70.0	253.866	262.381	265.145	262.381	253.866	247.687	241.640	237.058	236.068	237.058
72.5	217.506	218.178	224.913	218.178	217.506	210.887	205.233	202.201	201.606	202.201
75.0	181.973	186.800	188.575	186.800	181.973	175.699	173.402	169.238	169.540	169.238
77.5	147.602	152.146	154.777	152.146	147.602	143.003	140.535	137.525	137.741	137.525
80.0	114.864	118.645	120.687	118.645	114.864	112.819	109.740	108.167	107.259	108.167

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CANDELA TABULATION - (Cont.)

82.5	85.593	87.113	88.094	87.113	85.593	83.525	82.242	81.179	83.960	81.179
85.0	54.068	56.067	57.079	56.067	54.068	53.569	52.652	51.592	50.189	51.592
87.5	26.455	27.691	29.827	27.691	26.455	25.521	24.168	24.281	24.556	24.281
90.0	1.936	1.703	1.749	1.703	1.936	1.832	2.205	2.333	1.774	2.333
92.5	28.508	27.417	22.811	27.417	28.508	30.936	33.273	32.159	35.838	32.159
95.0	54.705	58.191	45.605	58.191	54.705	57.056	58.506	57.971	59.066	57.971
97.5	90.543	88.375	67.377	88.375	90.543	80.514	81.623	83.070	83.583	83.070
100.0	149.890	119.324	91.363	119.324	149.890	144.046	104.401	103.542	106.218	103.542
102.5	191.626	149.315	115.868	149.315	191.626	236.779	188.062	148.120	133.696	148.120
105.0	234.253	179.163	141.040	179.163	234.253	320.616	325.155	257.203	226.312	257.203
107.5	279.537	210.224	166.733	210.224	279.537	365.413	457.210	402.173	382.642	402.173
110.0	321.656	239.396	193.990	239.396	321.656	426.754	522.710	545.552	540.567	545.552
112.5	351.837	266.033	221.260	266.033	351.837	514.698	576.254	613.587	627.902	613.587
115.0	381.681	293.003	249.050	293.003	381.681	581.451	669.855	672.391	670.834	672.391
117.5	409.906	320.647	278.143	320.647	409.906	607.504	784.490	785.438	770.886	785.438
120.0	436.417	344.314	301.015	344.314	436.417	623.530	859.226	923.990	916.072	923.990
122.5	458.831	364.099	322.298	364.099	458.831	637.747	876.107	1019.858	1048.907	1019.858
125.0	479.625	383.149	342.235	383.149	479.625	650.438	873.596	1043.860	1097.769	1043.860
127.5	497.421	399.631	360.154	399.631	497.421	661.780	867.545	1032.762	1090.982	1032.762
130.0	512.374	415.470	376.666	415.470	512.374	672.422	860.631	1014.720	1069.820	1014.720
132.5	525.859	430.607	392.384	430.607	525.859	679.731	854.179	995.272	1046.092	995.272
135.0	537.479	445.346	408.162	445.346	537.479	684.438	847.453	973.587	1021.202	973.593
137.5	546.439	459.076	422.901	459.076	546.439	686.122	837.517	952.309	995.515	952.309
140.0	554.909	473.203	438.496	473.203	554.909	685.265	825.099	928.672	969.525	928.672
142.5	562.156	486.413	453.847	486.413	562.156	681.811	810.237	903.320	939.983	903.320
145.0	568.027	499.225	469.380	499.225	568.027	676.703	792.140	876.928	908.854	876.928
147.5	573.073	511.732	482.835	511.732	573.073	669.606	772.443	846.936	876.016	846.936
150.0	576.895	523.046	496.902	523.046	576.895	662.023	751.099	816.446	841.397	816.446
152.5	580.228	533.871	509.866	533.871	580.228	653.157	729.146	784.922	807.641	784.922
155.0	582.491	543.840	521.670	543.840	582.491	644.655	707.710	753.823	773.574	753.823
157.5	583.989	553.288	533.718	553.288	583.989	635.297	687.284	720.979	740.615	720.979
160.0	584.356	561.483	544.114	561.483	584.356	626.552	669.667	697.865	709.851	697.865
162.5	584.876	568.761	552.493	568.761	584.876	617.899	651.539	673.583	682.881	673.583
165.0	584.906	575.152	560.994	575.152	584.906	609.488	634.901	651.722	658.478	651.722
167.5	584.998	580.533	568.211	580.533	584.998	602.183	619.918	631.143	637.686	631.143
170.0	585.243	585.365	574.081	585.365	585.243	596.282	607.381	613.800	617.686	613.800
172.5	585.396	588.882	578.668	588.882	585.396	591.175	597.321	600.410	603.009	600.410
175.0	585.610	591.175	581.543	591.175	585.610	588.209	591.236	591.144	592.857	591.144
177.5	585.610	592.643	583.133	592.643	585.610	586.282	587.322	586.191	586.925	586.191
180.0	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649	586.649

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1239.024	1239.024	1239.024	1239.024	1239.024
2.5	1235.633	1234.554	1233.869	1249.028	1230.546
5.0	1227.839	1227.754	1227.540	1242.741	1224.611
7.5	1215.524	1215.781	1216.766	1232.233	1215.567
10.0	1198.464	1200.322	1204.844	1224.302	1207.379
12.5	1176.334	1184.684	1184.812	1202.258	1184.213
15.0	1152.388	1159.231	1159.445	1177.841	1161.903
17.5	1125.427	1128.571	1131.885	1150.923	1136.407
20.0	1091.324	1094.896	1102.689	1121.856	1108.419
22.5	1051.483	1058.592	1069.400	1087.530	1077.664
25.0	1010.486	1021.465	1033.096	1055.406	1048.297
27.5	970.396	983.354	995.670	1015.350	1005.065

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-WSO-KPL2008-102.013.IES

CANDELA TABULATION - (Cont.)

30.0	926.419	941.449	953.773	969.531	966.645
32.5	882.364	899.510	909.367	932.799	924.877
35.0	844.556	852.738	868.198	889.515	884.128
37.5	790.680	807.218	823.324	843.178	841.412
40.0	744.472	760.276	777.115	796.710	793.437
42.5	698.865	715.445	730.475	749.208	748.304
45.0	651.924	670.657	684.481	704.206	702.741
47.5	606.232	623.974	639.005	655.886	655.886
50.0	560.108	577.507	591.589	610.323	608.773
52.5	517.431	532.676	546.026	563.769	562.089
55.0	475.658	488.620	502.788	517.775	518.594
57.5	433.539	446.071	457.527	471.093	474.581
60.0	391.895	402.748	415.883	426.821	429.793
62.5	349.170	361.508	374.066	384.660	387.416
65.0	312.986	324.282	333.809	342.133	345.074
67.5	276.170	284.223	293.982	301.613	303.336
70.0	241.640	247.687	253.866	262.381	265.145
72.5	205.233	210.887	217.506	218.178	224.913
75.0	173.402	175.699	181.973	186.800	188.575
77.5	140.535	143.003	147.602	152.146	154.777
80.0	109.740	112.819	114.864	118.645	120.687
82.5	82.242	83.525	85.593	87.113	88.094
85.0	52.652	53.569	54.068	56.067	57.079
87.5	24.168	25.521	26.455	27.691	29.827
90.0	2.205	1.832	1.936	1.703	1.749
92.5	33.273	30.936	28.508	27.417	22.811
95.0	58.506	57.056	54.705	58.191	45.605
97.5	81.623	80.514	90.543	88.375	67.377
100.0	104.401	144.046	149.890	119.324	91.363
102.5	188.062	236.779	191.626	149.315	115.868
105.0	325.155	320.616	234.253	179.163	141.040
107.5	457.210	365.413	279.537	210.224	166.733
110.0	522.710	426.754	321.656	239.396	193.990
112.5	576.254	514.698	351.837	266.033	221.260
115.0	669.855	581.451	381.681	293.003	249.050
117.5	784.490	607.504	409.906	320.647	278.143
120.0	859.226	623.530	436.417	344.314	301.015
122.5	876.107	637.747	458.831	364.099	322.298
125.0	873.596	650.438	479.625	383.149	342.235
127.5	867.545	661.780	497.421	399.631	360.154
130.0	860.631	672.422	512.374	415.470	376.666
132.5	854.179	679.731	525.859	430.607	392.384
135.0	847.453	684.438	537.479	445.346	408.162
137.5	837.517	686.122	546.439	459.076	422.901
140.0	825.099	685.265	554.909	473.203	438.496
142.5	810.237	681.811	562.156	486.413	453.847
145.0	792.140	676.703	568.027	499.225	469.380
147.5	772.443	669.606	573.073	511.732	482.835
150.0	751.099	662.023	576.895	523.046	496.902
152.5	729.146	653.157	580.228	533.871	509.866
155.0	707.710	644.655	582.491	543.840	521.670
157.5	687.284	635.297	583.989	553.288	533.718
160.0	669.667	626.552	584.356	561.483	544.114
162.5	651.539	617.899	584.876	568.761	552.493
165.0	634.901	609.488	584.906	575.152	560.994
167.5	619.918	602.183	584.998	580.533	568.211

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-WSO-KPL2008-102.013.IES****CANDELA TABULATION - (Cont.)**

170.0	607.381	596.282	585.243	585.365	574.081
172.5	597.321	591.175	585.396	588.882	578.668
175.0	591.236	588.209	585.610	591.175	581.543
177.5	587.322	586.282	585.610	592.643	583.133
180.0	586.649	586.649	586.649	586.649	586.649

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-WSO-KPL2008-102.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.52	N.A.	7.50
0-30	913.79	N.A.	15.40
0-40	1447.93	N.A.	24.40
0-60	2403.78	N.A.	40.60
0-80	2913.96	N.A.	49.20
0-90	2974.17	N.A.	50.20
10-90	2857.61	N.A.	48.20
20-40	1005.41	N.A.	17.00
20-50	1522.56	N.A.	25.70
40-70	1277.62	N.A.	21.60
60-80	510.19	N.A.	8.60
70-80	188.41	N.A.	3.20
80-90	60.20	N.A.	1.00
90-110	330.57	N.A.	5.60
90-120	839.81	N.A.	14.20
90-130	1451.43	N.A.	24.50
90-150	2422.19	N.A.	40.90
90-180	2952.36	N.A.	49.80
110-180	2621.78	N.A.	44.20
0-180	5926.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.55
10-20	325.97
20-30	471.27
30-40	534.14
40-50	517.16
50-60	438.69
60-70	321.77
70-80	188.41
80-90	60.20
90-100	62.85
100-110	267.72
110-120	509.23
120-130	611.63
130-140	541.63
140-150	429.13
150-160	299.87
160-170	173.80
170-180	56.49

IES INDOOR REPORT

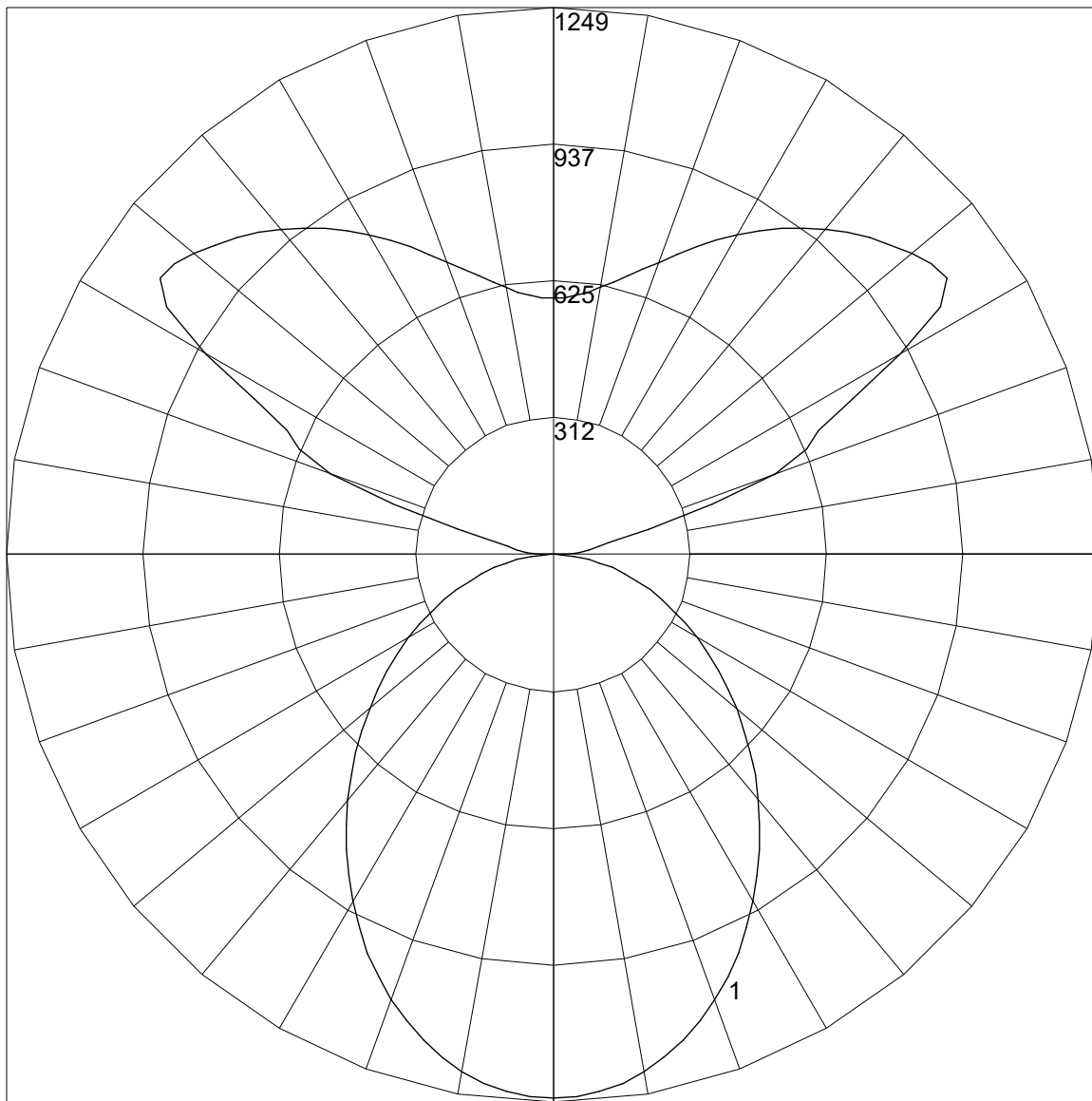
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-H-835-WSO-KPL2008-102.013.IES

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	56	56	56	50
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	39	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	32	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 1249.028 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)