

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-F-F-KPL2008-50.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.012 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 1/18/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-ID-4ft-S-V-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.4 WATTS
[ABSOLUTELUMENS]6877
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	53.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
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	15072	14384	13685
55	13712	12920	12257
65	12383	11637	11008
75	11050	10295	9935
85	9932	9322	8733

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	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1728.055	1754.009	1732.722	1733.684	1735.199	1732.662	1737.737	1732.662	1735.199	1733.684
5.0	1719.721	1745.181	1723.834	1724.134	1724.255	1721.777	1726.612	1721.777	1724.255	1724.134
7.5	1707.020	1730.425	1708.704	1707.321	1706.960	1703.629	1707.862	1703.629	1706.960	1707.321
10.0	1695.523	1719.288	1691.963	1685.613	1683.003	1677.446	1681.860	1677.446	1683.003	1685.613
12.5	1662.990	1688.331	1663.832	1663.651	1651.925	1646.056	1648.233	1646.056	1651.925	1663.651
15.0	1631.660	1654.042	1628.208	1627.908	1618.298	1608.256	1609.891	1608.256	1618.298	1627.908
17.5	1595.856	1616.242	1589.506	1584.851	1580.438	1563.925	1565.861	1563.925	1580.438	1584.851
20.0	1556.552	1575.422	1548.506	1537.562	1532.547	1517.669	1517.477	1517.669	1532.547	1537.562
22.5	1513.364	1527.219	1501.758	1486.580	1476.598	1466.074	1464.378	1466.074	1476.598	1486.580
25.0	1472.124	1482.106	1450.776	1434.443	1419.025	1408.201	1408.261	1408.201	1419.025	1434.443
27.5	1411.412	1425.856	1398.219	1380.924	1362.727	1350.027	1345.240	1350.027	1362.727	1380.924
30.0	1357.460	1361.513	1339.383	1322.077	1300.969	1287.608	1283.675	1287.608	1300.969	1322.077
32.5	1298.805	1309.930	1277.024	1263.181	1239.103	1224.527	1218.850	1224.527	1239.103	1263.181
35.0	1241.581	1249.146	1219.211	1197.500	1186.009	1158.915	1157.040	1158.915	1186.009	1197.500
37.5	1181.594	1184.074	1156.194	1133.576	1110.352	1094.628	1090.153	1094.628	1110.352	1133.576
40.0	1114.224	1118.819	1091.303	1067.656	1045.461	1030.342	1023.629	1030.342	1045.461	1067.656
42.5	1050.843	1052.113	1025.806	1004.700	981.416	966.297	959.523	966.297	981.416	1004.700
45.0	986.859	988.916	961.217	941.804	915.497	900.741	896.023	900.741	915.497	941.804
47.5	921.060	921.060	897.354	876.247	851.331	836.332	831.797	836.332	851.331	876.247
50.0	854.899	857.076	830.769	810.993	786.560	774.223	768.780	774.223	786.560	810.993
52.5	789.342	791.700	766.784	748.037	726.628	712.658	709.271	712.658	726.628	748.037
55.0	728.261	727.111	706.066	686.170	667.966	657.805	650.972	657.805	667.966	686.170
57.5	666.454	661.555	642.505	626.418	608.819	596.723	592.551	596.723	608.819	626.418
60.0	603.558	599.385	584.024	565.579	550.338	540.420	535.824	540.420	550.338	565.579
62.5	544.048	540.178	525.301	507.666	490.339	483.990	481.432	483.990	490.339	507.666
65.0	484.587	480.457	468.767	455.390	439.526	434.296	430.776	434.296	439.526	455.390
67.5	425.975	423.555	412.839	399.134	387.825	382.745	380.375	382.745	387.825	399.134
70.0	372.343	368.461	356.504	347.826	339.335	332.900	331.510	332.900	339.335	347.826
72.5	315.846	306.387	305.444	296.148	288.208	283.951	283.116	283.951	288.208	296.148
75.0	264.816	262.324	255.544	246.733	243.509	237.662	238.085	237.662	243.509	246.733
77.5	217.353	213.658	207.278	200.818	197.354	193.126	193.429	193.126	197.354	200.818
80.0	169.480	166.613	161.303	158.431	154.107	151.899	150.623	151.899	154.107	158.431
82.5	123.711	122.332	120.198	117.294	115.493	113.999	117.905	113.999	115.493	117.294
85.0	80.155	78.735	75.928	75.227	73.939	72.451	70.480	72.451	73.939	75.227
87.5	41.886	38.886	37.151	35.839	33.940	34.097	34.483	34.097	33.940	35.839
90.0	1.921	1.871	2.126	2.012	2.422	2.563	1.948	2.563	2.422	2.012
92.5	26.914	28.016	28.050	27.260	27.835	26.431	27.982	26.431	27.835	27.260
95.0	56.273	56.434	57.305	56.720	57.365	54.346	53.708	54.346	57.365	56.720
97.5	81.401	81.576	80.118	79.292	79.047	78.792	79.843	78.792	79.047	79.292
100.0	111.398	110.515	108.121	107.651	107.422	106.217	106.159	106.217	107.422	107.651
102.5	140.557	140.305	138.306	137.322	135.469	134.518	134.484	134.518	135.469	137.322
105.0	171.219	171.491	169.587	167.873	166.403	165.247	165.966	165.247	166.403	167.873
107.5	205.589	203.822	201.263	199.560	198.267	197.290	195.923	197.290	198.267	199.560
110.0	239.132	238.299	236.137	233.319	230.659	230.710	230.286	230.710	230.659	233.319
112.5	271.595	274.792	271.400	267.753	265.812	263.233	263.743	263.233	265.812	267.753
115.0	306.623	311.325	306.724	311.023	300.612	297.421	298.831	297.421	300.612	311.023
117.5	345.849	348.435	342.760	341.651	337.520	334.263	335.639	334.263	337.520	341.651
120.0	382.859	386.285	381.449	379.534	375.000	371.776	371.306	371.776	375.000	379.534
122.5	423.160	424.470	420.843	417.719	411.540	411.506	407.644	411.506	411.540	417.719
125.0	461.513	464.972	461.379	458.054	449.456	450.531	447.072	450.531	449.456	458.054
127.5	501.948	504.904	500.135	495.668	490.597	490.026	487.373	490.026	490.597	495.668
130.0	540.637	545.272	541.074	536.909	530.864	529.991	529.487	529.991	530.864	536.909
132.5	579.729	585.942	579.427	576.908	570.661	569.989	573.147	569.989	570.661	576.908

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CANDELA TABULATION - (Cont.)

135.0	618.485	626.445	618.787	617.007	613.179	611.668	614.388	611.668	613.179	617.007
137.5	659.458	664.865	656.167	654.823	655.596	651.162	655.159	651.162	655.596	654.823
140.0	697.139	706.142	695.663	694.521	695.022	692.137	695.463	692.137	695.022	694.521
142.5	734.079	742.441	734.353	733.078	733.278	730.252	731.394	730.252	733.278	733.078
145.0	772.436	778.313	770.719	769.210	769.818	768.776	770.152	768.776	769.818	769.210
147.5	806.892	814.045	807.499	807.466	807.433	804.374	806.224	804.374	807.433	807.466
150.0	842.289	849.041	840.139	840.446	840.646	838.496	841.414	838.496	840.646	840.446
152.5	871.642	881.854	873.526	874.601	873.526	870.834	874.528	870.834	873.526	874.601
155.0	901.530	913.285	903.714	903.514	903.914	899.246	904.288	899.246	903.914	903.514
157.5	929.674	942.872	932.326	929.841	930.416	930.950	930.416	930.950	930.416	929.841
160.0	956.677	968.365	955.735	953.384	954.693	950.466	952.850	950.466	954.693	953.384
162.5	977.434	989.991	977.468	975.785	977.161	971.891	974.883	971.891	977.161	975.785
165.0	996.709	1008.130	996.876	994.899	995.968	991.540	994.966	991.540	995.968	994.899
167.5	1012.558	1024.587	1013.533	1011.723	1012.658	1009.105	1012.832	1009.105	1012.658	1011.723
170.0	1025.662	1038.793	1027.238	1025.355	1027.338	1023.278	1027.539	1023.278	1027.338	1025.355
172.5	1036.001	1049.839	1038.419	1036.375	1038.519	1034.258	1038.759	1034.258	1038.519	1036.375
175.0	1043.595	1057.734	1046.446	1044.162	1046.413	1042.786	1047.221	1042.786	1046.413	1044.162
177.5	1048.297	1062.302	1050.948	1048.731	1051.249	1047.355	1052.257	1047.355	1051.249	1048.731
180.0	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312

**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	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1732.722	1754.009	1728.055	1754.009	1732.722	1733.684	1735.199	1732.662	1737.737	1732.662
5.0	1723.834	1745.181	1719.721	1745.181	1723.834	1724.134	1724.255	1721.777	1726.612	1721.777
7.5	1708.704	1730.425	1707.020	1730.425	1708.704	1707.321	1706.960	1703.629	1707.862	1703.629
10.0	1691.963	1719.288	1695.523	1719.288	1691.963	1685.613	1683.003	1677.446	1681.860	1677.446
12.5	1663.832	1688.331	1662.990	1688.331	1663.832	1663.651	1651.925	1646.056	1648.233	1646.056
15.0	1628.208	1654.042	1631.660	1654.042	1628.208	1627.908	1618.298	1608.256	1609.891	1608.256
17.5	1589.506	1616.242	1595.856	1616.242	1589.506	1584.851	1580.438	1563.925	1565.861	1563.925
20.0	1548.506	1575.422	1556.552	1575.422	1548.506	1537.562	1532.547	1517.669	1517.477	1517.669
22.5	1501.758	1527.219	1513.364	1527.219	1501.758	1486.580	1476.598	1466.074	1464.378	1466.074
25.0	1450.776	1482.106	1472.124	1482.106	1450.776	1434.443	1419.025	1408.201	1408.261	1408.201
27.5	1398.219	1425.856	1411.412	1425.856	1398.219	1380.924	1362.727	1350.027	1345.240	1350.027
30.0	1339.383	1361.513	1357.460	1361.513	1339.383	1322.077	1300.969	1287.608	1283.675	1287.608
32.5	1277.024	1309.930	1298.805	1309.930	1277.024	1263.181	1239.103	1224.527	1218.850	1224.527
35.0	1219.211	1249.146	1241.581	1249.146	1219.211	1197.500	1186.009	1158.915	1157.040	1158.915
37.5	1156.194	1184.074	1181.594	1184.074	1156.194	1133.576	1110.352	1094.628	1090.153	1094.628
40.0	1091.303	1118.819	1114.224	1118.819	1091.303	1067.656	1045.461	1030.342	1023.629	1030.342
42.5	1025.806	1052.113	1050.843	1052.113	1025.806	1004.700	981.416	966.297	959.523	966.297
45.0	961.217	988.916	986.859	988.916	961.217	941.804	915.497	900.741	896.023	900.741
47.5	897.354	921.060	921.060	921.060	897.354	876.247	851.331	836.332	831.797	836.332
50.0	830.769	857.076	854.899	857.076	830.769	810.993	786.560	774.223	768.780	774.223
52.5	766.784	791.700	789.342	791.700	766.784	748.037	726.628	712.658	709.271	712.658
55.0	706.066	727.111	728.261	727.111	706.066	686.170	667.966	657.805	650.972	657.805
57.5	642.505	661.555	666.454	661.555	642.505	626.418	608.819	596.723	592.551	596.723
60.0	584.024	599.385	603.558	599.385	584.024	565.579	550.338	540.420	535.824	540.420
62.5	525.301	540.178	544.048	540.178	525.301	507.666	490.339	483.990	481.432	483.990
65.0	468.767	480.457	484.587	480.457	468.767	455.390	439.526	434.296	430.776	434.296
67.5	412.839	423.555	425.975	423.555	412.839	399.134	387.825	382.745	380.375	382.745
70.0	356.504	368.461	372.343	368.461	356.504	347.826	339.335	332.900	331.510	332.900
72.5	305.444	306.387	315.846	306.387	305.444	296.148	288.208	283.951	283.116	283.951
75.0	255.544	262.324	264.816	262.324	255.544	246.733	243.509	237.662	238.085	237.662
77.5	207.278	213.658	217.353	213.658	207.278	200.818	197.354	193.126	193.429	193.126
80.0	161.303	166.613	169.480	166.613	161.303	158.431	154.107	151.899	150.623	151.899

CANDELA TABULATION - (Cont.)

82.5	120.198	122.332	123.711	122.332	120.198	117.294	115.493	113.999	117.905	113.999
85.0	75.928	78.735	80.155	78.735	75.928	75.227	73.939	72.451	70.480	72.451
87.5	37.151	38.886	41.886	38.886	37.151	35.839	33.940	34.097	34.483	34.097
90.0	2.126	1.871	1.921	1.871	2.126	2.012	2.422	2.563	1.948	2.563
92.5	28.050	28.016	26.914	28.016	28.050	27.260	27.835	26.431	27.982	26.431
95.0	57.305	56.434	56.273	56.434	57.305	56.720	57.365	54.346	53.708	54.346
97.5	80.118	81.576	81.401	81.576	80.118	79.292	79.047	78.792	79.843	78.792
100.0	108.121	110.515	111.398	110.515	108.121	107.651	107.422	106.217	106.159	106.217
102.5	138.306	140.305	140.557	140.305	138.306	137.322	135.469	134.518	134.484	134.518
105.0	169.587	171.491	171.219	171.491	169.587	167.873	166.403	165.247	165.966	165.247
107.5	201.263	203.822	205.589	203.822	201.263	199.560	198.267	197.290	195.923	197.290
110.0	236.137	238.299	239.132	238.299	236.137	233.319	230.659	230.710	230.286	230.710
112.5	271.400	274.792	271.595	274.792	271.400	267.753	265.812	263.233	263.743	263.233
115.0	306.724	311.325	306.623	311.325	306.724	311.023	300.612	297.421	298.831	297.421
117.5	342.760	348.435	345.849	348.435	342.760	341.651	337.520	334.263	335.639	334.263
120.0	381.449	386.285	382.859	386.285	381.449	379.534	375.000	371.776	371.306	371.776
122.5	420.843	424.470	423.160	424.470	420.843	417.719	411.540	411.506	407.644	411.506
125.0	461.379	464.972	461.513	464.972	461.379	458.054	449.456	450.531	447.072	450.531
127.5	500.135	504.904	501.948	504.904	500.135	495.668	490.597	490.026	487.373	490.026
130.0	541.074	545.272	540.637	545.272	541.074	536.909	530.864	529.991	529.487	529.991
132.5	579.427	585.942	579.729	585.942	579.427	576.908	570.661	569.989	573.147	569.989
135.0	618.787	626.445	618.485	626.445	618.787	617.007	613.179	611.668	614.388	611.668
137.5	656.167	664.865	659.458	664.865	656.167	654.823	655.596	651.162	655.159	651.162
140.0	695.663	706.142	697.139	706.142	695.663	694.521	695.022	692.137	695.463	692.137
142.5	734.353	742.441	734.079	742.441	734.353	733.078	733.278	730.252	731.394	730.252
145.0	770.719	778.313	772.436	778.313	770.719	769.210	769.818	768.776	770.152	768.776
147.5	807.499	814.045	806.892	814.045	807.499	807.466	807.433	804.374	806.224	804.374
150.0	840.139	849.041	842.289	849.041	840.139	840.446	840.646	838.496	841.414	838.496
152.5	873.526	881.854	871.642	881.854	873.526	874.601	873.526	870.834	874.528	870.834
155.0	903.714	913.285	901.530	913.285	903.714	903.514	903.914	899.246	904.288	899.246
157.5	932.326	942.872	929.674	942.872	932.326	929.841	930.416	930.950	930.416	930.950
160.0	955.735	968.365	956.677	968.365	955.735	953.384	954.693	950.466	952.850	950.466
162.5	977.468	989.991	977.434	989.991	977.468	975.785	977.161	971.891	974.883	971.891
165.0	996.876	1008.130	996.709	1008.130	996.876	994.899	995.968	991.540	994.966	991.540
167.5	1013.533	1024.587	1012.558	1024.587	1013.533	1011.723	1012.658	1009.105	1012.832	1009.105
170.0	1027.238	1038.793	1025.662	1038.793	1027.238	1025.355	1027.338	1023.278	1027.539	1023.278
172.5	1038.419	1049.839	1036.001	1049.839	1038.419	1036.375	1038.519	1034.258	1038.759	1034.258
175.0	1046.446	1057.734	1043.595	1057.734	1046.446	1044.162	1046.413	1042.786	1047.221	1042.786
177.5	1050.948	1062.302	1048.297	1062.302	1050.948	1048.731	1051.249	1047.355	1052.257	1047.355
180.0	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312	1053.312

Vert.
Angles

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1735.199	1733.684	1732.722	1754.009	1728.055
5.0	1724.255	1724.134	1723.834	1745.181	1719.721
7.5	1706.960	1707.321	1708.704	1730.425	1707.020
10.0	1683.003	1685.613	1691.963	1719.288	1695.523
12.5	1651.925	1663.651	1663.832	1688.331	1662.990
15.0	1618.298	1627.908	1628.208	1654.042	1631.660
17.5	1580.438	1584.851	1589.506	1616.242	1595.856
20.0	1532.547	1537.562	1548.506	1575.422	1556.552
22.5	1476.598	1486.580	1501.758	1527.219	1513.364
25.0	1419.025	1434.443	1450.776	1482.106	1472.124
27.5	1362.727	1380.924	1398.219	1425.856	1411.412

CANDELA TABULATION - (Cont.)

30.0	1300.969	1322.077	1339.383	1361.513	1357.460
32.5	1239.103	1263.181	1277.024	1309.930	1298.805
35.0	1186.009	1197.500	1219.211	1249.146	1241.581
37.5	1110.352	1133.576	1156.194	1184.074	1181.594
40.0	1045.461	1067.656	1091.303	1118.819	1114.224
42.5	981.416	1004.700	1025.806	1052.113	1050.843
45.0	915.497	941.804	961.217	988.916	986.859
47.5	851.331	876.247	897.354	921.060	921.060
50.0	786.560	810.993	830.769	857.076	854.899
52.5	726.628	748.037	766.784	791.700	789.342
55.0	667.966	686.170	706.066	727.111	728.261
57.5	608.819	626.418	642.505	661.555	666.454
60.0	550.338	565.579	584.024	599.385	603.558
62.5	490.339	507.666	525.301	540.178	544.048
65.0	439.526	455.390	468.767	480.457	484.587
67.5	387.825	399.134	412.839	423.555	425.975
70.0	339.335	347.826	356.504	368.461	372.343
72.5	288.208	296.148	305.444	306.387	315.846
75.0	243.509	246.733	255.544	262.324	264.816
77.5	197.354	200.818	207.278	213.658	217.353
80.0	154.107	158.431	161.303	166.613	169.480
82.5	115.493	117.294	120.198	122.332	123.711
85.0	73.939	75.227	75.928	78.735	80.155
87.5	33.940	35.839	37.151	38.886	41.886
90.0	2.422	2.012	2.126	1.871	1.921
92.5	27.835	27.260	28.050	28.016	26.914
95.0	57.365	56.720	57.305	56.434	56.273
97.5	79.047	79.292	80.118	81.576	81.401
100.0	107.422	107.651	108.121	110.515	111.398
102.5	135.469	137.322	138.306	140.305	140.557
105.0	166.403	167.873	169.587	171.491	171.219
107.5	198.267	199.560	201.263	203.822	205.589
110.0	230.659	233.319	236.137	238.299	239.132
112.5	265.812	267.753	271.400	274.792	271.595
115.0	300.612	311.023	306.724	311.325	306.623
117.5	337.520	341.651	342.760	348.435	345.849
120.0	375.000	379.534	381.449	386.285	382.859
122.5	411.540	417.719	420.843	424.470	423.160
125.0	449.456	458.054	461.379	464.972	461.513
127.5	490.597	495.668	500.135	504.904	501.948
130.0	530.864	536.909	541.074	545.272	540.637
132.5	570.661	576.908	579.427	585.942	579.729
135.0	613.179	617.007	618.787	626.445	618.485
137.5	655.596	654.823	656.167	664.865	659.458
140.0	695.022	694.521	695.663	706.142	697.139
142.5	733.278	733.078	734.353	742.441	734.079
145.0	769.818	769.210	770.719	778.313	772.436
147.5	807.433	807.466	807.499	814.045	806.892
150.0	840.646	840.446	840.139	849.041	842.289
152.5	873.526	874.601	873.526	881.854	871.642
155.0	903.914	903.514	903.714	913.285	901.530
157.5	930.416	929.841	932.326	942.872	929.674
160.0	954.693	953.384	955.735	968.365	956.677
162.5	977.161	975.785	977.468	989.991	977.434
165.0	995.968	994.899	996.876	1008.130	996.709
167.5	1012.658	1011.723	1013.533	1024.587	1012.558

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-F-F-KPL2008-50.012.IES****CANDELA TABULATION - (Cont.)**

170.0	1027.338	1025.355	1027.238	1038.793	1025.662
172.5	1038.519	1036.375	1038.419	1049.839	1036.001
175.0	1046.413	1044.162	1046.446	1057.734	1043.595
177.5	1051.249	1048.731	1050.948	1062.302	1048.297
180.0	1053.312	1053.312	1053.312	1053.312	1053.312

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-S-V-835-F-F-KPL2008-50.012.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.44	N.A.	9.00
0-30	1283.24	N.A.	18.70
0-40	2033.33	N.A.	29.60
0-60	3375.62	N.A.	49.10
0-80	4092.08	N.A.	59.50
0-90	4176.54	N.A.	60.70
10-90	4012.86	N.A.	58.30
20-40	1411.89	N.A.	20.50
20-50	2138.13	N.A.	31.10
40-70	1794.16	N.A.	26.10
60-80	716.46	N.A.	10.40
70-80	264.59	N.A.	3.80
80-90	84.46	N.A.	1.20
90-110	238.00	N.A.	3.50
90-120	539.97	N.A.	7.80
90-130	948.37	N.A.	13.80
90-150	1906.69	N.A.	27.70
90-180	2703.42	N.A.	39.30
110-180	2465.42	N.A.	35.80
0-180	6879.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

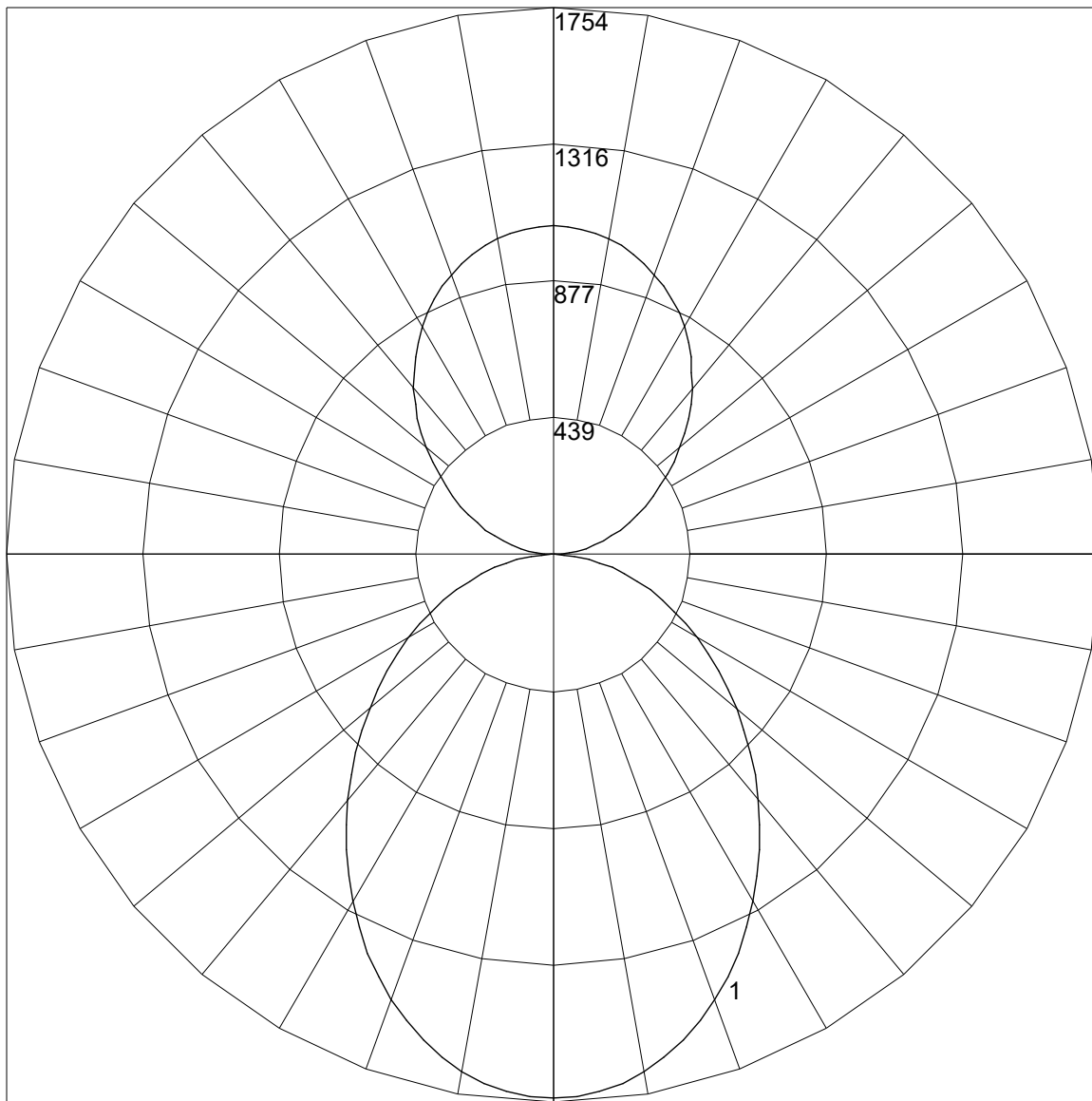
Zone	Lumens
0-10	163.68
10-20	457.76
20-30	661.80
30-40	750.09
40-50	726.24
50-60	616.05
60-70	451.87
70-80	264.59
80-90	84.46
90-100	59.53
100-110	178.47
110-120	301.97
120-130	408.40
130-140	475.96
140-150	482.37
150-160	416.26
160-170	281.12
170-180	99.35

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	66	58	51	71	62	54	49	54	49	44	47	43	39	41	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	34	37	33	31	28
6	65	53	44	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	29	24	46	35	28	23	31	25	22	28	23	20	24	21	18	16

POLAR GRAPH



Maximum Candela = 1754.009 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)