

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-F-F-KPL2008-50.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.013 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-H-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.0 WATTS
[ABSOLUTELUMENS]5967
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5970
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)	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	11788	11250	10703
55	10724	10104	9586
65	9685	9101	8609
75	8642	8052	7770
85	7768	7290	6830

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	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1351.496	1371.795	1355.146	1355.898	1357.084	1355.099	1359.068	1355.099	1357.084	1355.898
5.0	1344.978	1364.891	1348.195	1348.430	1348.524	1346.586	1350.368	1346.586	1348.524	1348.430
7.5	1335.045	1353.350	1336.362	1335.280	1334.998	1332.393	1335.704	1332.393	1334.998	1335.280
10.0	1326.053	1344.639	1323.269	1318.302	1316.261	1311.916	1315.368	1311.916	1316.261	1318.302
12.5	1300.609	1320.428	1301.268	1301.127	1291.956	1287.366	1289.068	1287.366	1291.956	1301.127
15.0	1276.107	1293.611	1273.407	1273.172	1265.656	1257.802	1259.082	1257.802	1265.656	1273.172
17.5	1248.105	1264.048	1243.138	1239.498	1236.046	1223.131	1224.646	1223.131	1236.046	1239.498
20.0	1217.365	1232.124	1211.073	1202.513	1198.591	1186.956	1186.805	1186.956	1198.591	1202.513
22.5	1183.588	1194.424	1174.511	1162.641	1154.834	1146.603	1145.277	1146.603	1154.834	1162.641
25.0	1151.335	1159.142	1134.639	1121.865	1109.807	1101.341	1101.388	1101.341	1109.807	1121.865
27.5	1103.853	1115.149	1093.534	1080.008	1065.777	1055.844	1052.100	1055.844	1065.777	1080.008
30.0	1061.657	1064.827	1047.520	1033.984	1017.476	1007.026	1003.951	1007.026	1017.476	1033.984
32.5	1015.783	1024.484	998.749	987.923	969.092	957.691	953.252	957.691	969.092	987.923
35.0	971.029	976.946	953.534	936.554	927.567	906.377	904.911	906.377	927.567	936.554
37.5	924.114	926.054	904.249	886.560	868.396	856.099	852.599	856.099	868.396	886.560
40.0	871.424	875.018	853.498	835.004	817.646	805.821	800.571	805.821	817.646	835.004
42.5	821.855	822.848	802.273	785.767	767.556	755.732	750.435	755.732	767.556	785.767
45.0	771.814	773.422	751.759	736.577	716.002	704.461	700.771	704.461	716.002	736.577
47.5	720.353	720.353	701.813	685.305	665.818	654.088	650.541	654.088	665.818	685.305
50.0	668.609	670.311	649.737	634.270	615.162	605.513	601.256	605.513	615.162	634.270
52.5	617.337	619.182	599.695	585.033	568.289	557.363	554.714	557.363	568.289	585.033
55.0	569.567	568.667	552.208	536.647	522.410	514.464	509.119	514.464	522.410	536.647
57.5	521.228	517.397	502.497	489.916	476.152	466.692	463.429	466.692	476.152	489.916
60.0	472.038	468.774	456.760	442.334	430.415	422.657	419.063	422.657	430.415	442.334
62.5	425.495	422.468	410.833	397.041	383.489	378.524	376.523	378.524	383.489	397.041
65.0	378.991	375.761	366.619	356.156	343.750	339.659	336.906	339.659	343.750	356.156
67.5	333.151	331.258	322.878	312.159	303.315	299.342	297.488	299.342	303.315	312.159
70.0	291.206	288.170	278.818	272.032	265.391	260.358	259.271	260.358	265.391	272.032
72.5	247.020	239.622	238.885	231.615	225.405	222.075	221.422	222.075	225.405	231.615
75.0	207.110	205.161	199.859	192.968	190.446	185.873	186.204	185.873	190.446	192.968
77.5	169.990	167.100	162.110	157.058	154.348	151.042	151.279	151.042	154.348	157.058
80.0	132.549	130.306	126.154	123.907	120.526	118.799	117.801	118.799	120.526	123.907
82.5	96.753	95.675	94.005	91.735	90.326	89.158	92.213	89.158	90.326	91.735
85.0	62.689	61.578	59.383	58.834	57.827	56.663	55.122	56.663	57.827	58.834
87.5	32.759	30.413	29.055	28.029	26.544	26.667	26.969	26.667	26.544	28.029
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	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1355.146	1371.795	1351.496	1371.795	1355.146	1355.898	1357.084	1355.099	1359.068	1355.099
5.0	1348.195	1364.891	1344.978	1364.891	1348.195	1348.430	1348.524	1346.586	1350.368	1346.586
7.5	1336.362	1353.350	1335.045	1353.350	1336.362	1335.280	1334.998	1332.393	1335.704	1332.393
10.0	1323.269	1344.639	1326.053	1344.639	1323.269	1318.302	1316.261	1311.916	1315.368	1311.916
12.5	1301.268	1320.428	1300.609	1320.428	1301.268	1301.127	1291.956	1287.366	1289.068	1287.366
15.0	1273.407	1293.611	1276.107	1293.611	1273.407	1273.172	1265.656	1257.802	1259.082	1257.802
17.5	1243.138	1264.048	1248.105	1264.048	1243.138	1239.498	1236.046	1223.131	1224.646	1223.131
20.0	1211.073	1232.124	1217.365	1232.124	1211.073	1202.513	1198.591	1186.956	1186.805	1186.956
22.5	1174.511	1194.424	1183.588	1194.424	1174.511	1162.641	1154.834	1146.603	1145.277	1146.603
25.0	1134.639	1159.142	1151.335	1159.142	1134.639	1121.865	1109.807	1101.341	1101.388	1101.341
27.5	1093.534	1115.149	1103.853	1115.149	1093.534	1080.008	1065.777	1055.844	1052.100	1055.844
30.0	1047.520	1064.827	1061.657	1064.827	1047.520	1033.984	1017.476	1007.026	1003.951	1007.026
32.5	998.749	1024.484	1015.783	1024.484	998.749	987.923	969.092	957.691	953.252	957.691
35.0	953.534	976.946	971.029	976.946	953.534	936.554	927.567	906.377	904.911	906.377
37.5	904.249	926.054	924.114	926.054	904.249	886.560	868.396	856.099	852.599	856.099
40.0	853.498	875.018	871.424	875.018	853.498	835.004	817.646	805.821	800.571	805.821
42.5	802.273	822.848	821.855	822.848	802.273	785.767	767.556	755.732	750.435	755.732
45.0	751.759	773.422	771.814	773.422	751.759	736.577	716.002	704.461	700.771	704.461
47.5	701.813	720.353	720.353	720.353	701.813	685.305	665.818	654.088	650.541	654.088
50.0	649.737	670.311	668.609	670.311	649.737	634.270	615.162	605.513	601.256	605.513
52.5	599.695	619.182	617.337	619.182	599.695	585.033	568.289	557.363	554.714	557.363
55.0	552.208	568.667	569.567	568.667	552.208	536.647	522.410	514.464	509.119	514.464
57.5	502.497	517.397	521.228	517.397	502.497	489.916	476.152	466.692	463.429	466.692
60.0	456.760	468.774	472.038	468.774	456.760	442.334	430.415	422.657	419.063	422.657
62.5	410.833	422.468	425.495	422.468	410.833	397.041	383.489	378.524	376.523	378.524
65.0	366.619	375.761	378.991	375.761	366.619	356.156	343.750	339.659	336.906	339.659
67.5	322.878	331.258	333.151	331.258	322.878	312.159	303.315	299.342	297.488	299.342
70.0	278.818	288.170	291.206	288.170	278.818	272.032	265.391	260.358	259.271	260.358
72.5	238.885	239.622	247.020	239.622	238.885	231.615	225.405	222.075	221.422	222.075
75.0	199.859	205.161	207.110	205.161	199.859	192.968	190.446	185.873	186.204	185.873
77.5	162.110	167.100	169.990	167.100	162.110	157.058	154.348	151.042	151.279	151.042
80.0	126.154	130.306	132.549	130.306	126.154	123.907	120.526	118.799	117.801	118.799

CANDELA TABULATION - (Cont.)

82.5	94.005	95.675	96.753	95.675	94.005	91.735	90.326	89.158	92.213	89.158
85.0	59.383	61.578	62.689	61.578	59.383	58.834	57.827	56.663	55.122	56.663
87.5	29.055	30.413	32.759	30.413	29.055	28.029	26.544	26.667	26.969	26.667
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	1360.808	1360.808	1360.808	1360.808	1360.808
2.5	1357.084	1355.898	1355.146	1371.795	1351.496
5.0	1348.524	1348.430	1348.195	1364.891	1344.978
7.5	1334.998	1335.280	1336.362	1353.350	1335.045
10.0	1316.261	1318.302	1323.269	1344.639	1326.053
12.5	1291.956	1301.127	1301.268	1320.428	1300.609
15.0	1265.656	1273.172	1273.407	1293.611	1276.107
17.5	1236.046	1239.498	1243.138	1264.048	1248.105
20.0	1198.591	1202.513	1211.073	1232.124	1217.365
22.5	1154.834	1162.641	1174.511	1194.424	1183.588
25.0	1109.807	1121.865	1134.639	1159.142	1151.335
27.5	1065.777	1080.008	1093.534	1115.149	1103.853

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	1017.476	1033.984	1047.520	1064.827	1061.657
32.5	969.092	987.923	998.749	1024.484	1015.783
35.0	927.567	936.554	953.534	976.946	971.029
37.5	868.396	886.560	904.249	926.054	924.114
40.0	817.646	835.004	853.498	875.018	871.424
42.5	767.556	785.767	802.273	822.848	821.855
45.0	716.002	736.577	751.759	773.422	771.814
47.5	665.818	685.305	701.813	720.353	720.353
50.0	615.162	634.270	649.737	670.311	668.609
52.5	568.289	585.033	599.695	619.182	617.337
55.0	522.410	536.647	552.208	568.667	569.567
57.5	476.152	489.916	502.497	517.397	521.228
60.0	430.415	442.334	456.760	468.774	472.038
62.5	383.489	397.041	410.833	422.468	425.495
65.0	343.750	356.156	366.619	375.761	378.991
67.5	303.315	312.159	322.878	331.258	333.151
70.0	265.391	272.032	278.818	288.170	291.206
72.5	225.405	231.615	238.885	239.622	247.020
75.0	190.446	192.968	199.859	205.161	207.110
77.5	154.348	157.058	162.110	167.100	169.990
80.0	120.526	123.907	126.154	130.306	132.549
82.5	90.326	91.735	94.005	95.675	96.753
85.0	57.827	58.834	59.383	61.578	62.689
87.5	26.544	28.029	29.055	30.413	32.759
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.02	N.A.	8.10
0-30	1003.61	N.A.	16.80
0-40	1590.25	N.A.	26.60
0-60	2640.04	N.A.	44.20
0-80	3200.38	N.A.	53.60
0-90	3266.5	N.A.	54.70
10-90	3138.49	N.A.	52.60
20-40	1104.23	N.A.	18.50
20-50	1672.22	N.A.	28.00
40-70	1403.2	N.A.	23.50
60-80	560.33	N.A.	9.40
70-80	206.93	N.A.	3.50
80-90	66.12	N.A.	1.10
90-110	238.00	N.A.	4.00
90-120	539.97	N.A.	9.00
90-130	948.37	N.A.	15.90
90-150	1906.69	N.A.	31.90
90-180	2703.42	N.A.	45.30
110-180	2465.42	N.A.	41.30
0-180	5969.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.01
10-20	358.01
20-30	517.59
30-40	586.64
40-50	567.99
50-60	481.81
60-70	353.40
70-80	206.93
80-90	66.12
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

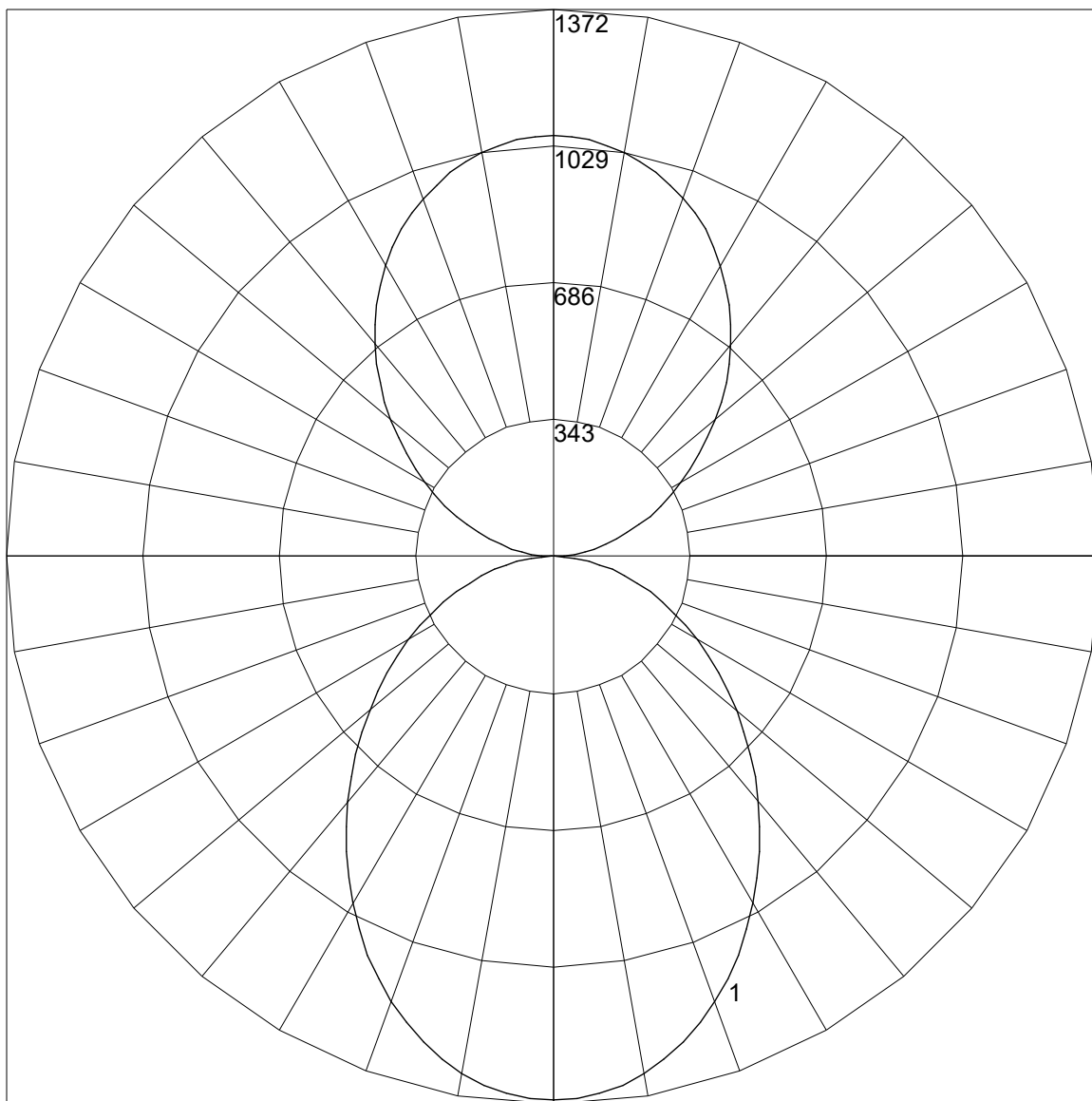
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	81	75	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	50	50	46	43	42	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	45	40	37	38	35	32	28
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	31	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	31	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	18	22	19	16	14

POLAR GRAPH



Maximum Candela = 1371.795 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)