

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 : HP-WG-6W-6D-4FT-B-8TW-ITL88851.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL88851.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]01/25/17
[ISSUEDATE]04/18/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-WG-6W-6D-4ft-B-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 21.5 WATTS
[ABSOLUTE]LUMENS]1330
[OTHER]see www.finelite.com for source file ITL88551. For further details on Finelite family correlation files, go to
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	20.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.49 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	692	805	4923
55	680	687	3476
65	923	730	2225
75	1346	1023	1039
85	158	175	228

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>
0.0	1758.750	1758.750	1758.750	1758.750	1758.750	1758.750	1758.750	1758.750	1758.750	1758.750
0.5	1722.206	1719.118	1720.148	1723.236	1726.839	1730.442	1735.589	1742.280	1748.971	1755.148
1.0	1668.677	1675.368	1677.427	1683.603	1691.324	1700.074	1711.912	1725.295	1738.162	1752.059
1.5	1623.383	1629.045	1632.647	1641.397	1653.750	1668.162	1686.177	1706.250	1726.839	1747.942
2.0	1576.545	1579.633	1584.780	1596.618	1614.118	1633.677	1658.897	1686.692	1715.000	1742.280
2.5	1527.647	1528.162	1535.883	1550.809	1572.942	1598.162	1630.589	1666.618	1703.162	1739.192
3.0	1473.603	1474.633	1483.897	1502.427	1529.706	1561.618	1601.250	1646.030	1689.780	1733.530
3.5	1418.530	1419.559	1429.339	1453.015	1485.956	1524.559	1571.912	1624.927	1676.912	1727.868
4.0	1360.368	1361.397	1373.750	1401.544	1440.662	1485.956	1541.545	1603.309	1663.530	1722.206
4.5	1298.603	1301.692	1316.618	1348.015	1393.309	1445.294	1510.147	1580.147	1649.118	1716.030
5.0	1237.353	1240.441	1257.942	1292.942	1344.927	1404.118	1477.206	1555.956	1634.192	1707.795
5.5	1174.044	1178.677	1198.236	1237.868	1295.000	1373.236	1444.265	1532.280	1618.750	1702.647
6.0	1111.765	1118.456	1138.530	1181.765	1245.589	1319.706	1409.780	1507.574	1602.280	1692.868
6.5	1050.515	1058.750	1081.397	1126.177	1194.633	1286.250	1374.780	1481.839	1586.324	1686.692
7.0	992.353	1001.618	1025.809	1072.133	1144.191	1242.500	1339.780	1456.103	1569.339	1675.883
7.5	936.250	948.088	971.765	1020.662	1094.265	1197.721	1303.750	1430.883	1552.353	1669.706
8.0	883.750	898.162	921.838	971.250	1046.397	1153.971	1267.206	1404.633	1535.368	1660.442
8.5	851.838	851.324	875.515	924.412	999.044	1110.736	1230.662	1377.353	1517.868	1653.236
9.0	806.030	809.118	832.794	880.147	954.265	1068.015	1195.147	1350.589	1500.883	1643.971
9.5	763.824	769.485	792.647	838.456	912.574	1025.294	1167.353	1323.824	1482.353	1633.677
10.0	725.221	734.485	756.103	800.883	872.941	985.147	1131.324	1296.030	1463.824	1623.897
11.0	667.574	671.691	692.794	733.456	801.397	911.030	1061.839	1241.986	1427.794	1603.824
11.5	635.147	643.383	663.971	703.088	768.971	875.515	1027.868	1213.677	1409.265	1593.015
12.0	616.103	617.647	637.721	675.294	739.633	842.574	994.927	1186.397	1390.736	1582.721
12.5	587.794	593.456	612.500	649.044	710.809	811.177	962.500	1159.118	1371.692	1571.397
13.0	563.088	571.324	589.338	624.853	684.044	781.324	931.103	1131.839	1348.015	1560.074
13.5	547.132	550.221	568.235	601.691	660.368	753.530	901.765	1105.074	1328.971	1548.750
14.0	523.971	530.662	548.162	580.074	636.177	726.765	873.456	1077.794	1308.383	1537.427
14.5	510.588	513.162	530.147	560.515	613.530	702.574	846.691	1052.059	1289.339	1526.103
15.0	492.059	496.691	512.647	542.500	593.456	679.412	819.412	1019.633	1269.265	1514.780
16.0	462.206	466.838	478.677	508.015	554.338	635.147	768.971	969.706	1231.177	1489.559
17.0	436.471	441.103	452.427	479.191	520.368	596.544	723.162	922.868	1194.633	1464.853
18.0	412.794	417.941	427.721	453.456	490.515	561.030	681.471	879.118	1157.574	1439.118
19.0	394.780	395.809	406.103	429.780	464.265	529.118	642.868	836.912	1121.030	1413.383
20.0	372.647	375.221	385.515	408.677	439.559	500.294	607.353	796.765	1085.515	1388.162
22.5	318.603	323.235	335.074	357.206	388.088	439.044	530.147	705.662	998.530	1317.647
25.0	284.118	285.662	293.382	312.941	343.824	389.632	467.353	626.912	915.147	1245.589
27.5	260.441	261.471	266.103	278.971	304.191	347.427	414.853	557.941	835.883	1166.839
30.0	247.059	248.603	250.147	255.809	273.309	310.368	370.588	497.721	761.250	1090.662
32.5	229.044	229.044	234.706	239.853	250.662	279.485	333.529	448.309	691.765	1014.486
35.0	205.368	205.368	212.574	222.353	233.162	254.779	300.074	402.500	626.912	938.824
37.5	195.074	195.074	196.618	203.824	216.691	234.706	272.279	360.809	566.177	864.706
40.0	187.868	187.353	188.382	191.471	199.706	217.721	247.574	325.294	509.559	790.588
42.5	182.721	182.206	182.206	183.235	187.353	201.765	226.985	295.441	460.147	719.044
45.0	179.118	178.603	178.088	176.544	178.088	186.838	208.971	266.618	411.765	649.044
47.5	172.941	172.941	172.941	172.427	170.882	175.515	193.015	241.912	368.530	582.133
50.0	171.397	170.882	167.794	166.765	165.735	166.250	178.088	218.750	325.294	514.706
52.5	176.029	176.029	173.971	164.706	160.588	159.044	165.221	198.677	290.294	453.971
55.0	173.456	173.456	171.912	170.368	157.500	153.897	154.927	180.662	256.324	396.324
57.5	178.088	178.088	172.941	168.309	163.677	148.750	146.177	163.677	225.441	342.280
60.0	191.471	191.471	184.265	173.456	162.132	149.779	139.485	148.235	196.103	293.897
62.5	205.368	204.338	197.132	185.294	166.250	151.838	134.338	135.882	169.853	247.574
65.0	224.927	223.382	213.603	197.132	177.574	152.868	133.309	124.559	146.177	204.853
67.5	254.779	253.235	239.338	215.147	187.868	160.588	134.338	115.294	125.588	166.250

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CANDELA TABULATION - (Cont.)

70.0	291.324	289.779	272.279	241.912	205.368	168.824	134.853	107.059	106.544	131.250
72.5	319.118	318.088	301.103	269.706	226.985	180.147	140.000	107.059	93.162	99.338
75.0	302.647	302.132	292.353	274.338	240.368	192.500	144.118	103.971	80.294	72.574
77.5	225.956	231.618	228.529	226.985	216.177	191.471	147.721	103.971	69.485	50.956
80.0	109.632	116.324	121.985	138.456	148.235	152.868	137.941	101.397	64.338	31.397
82.5	31.912	32.426	32.941	39.118	59.191	81.838	96.765	89.044	59.706	21.103
85.0	31.397	31.397	31.912	31.397	30.368	28.309	38.088	53.529	50.956	16.471
87.5	30.882	30.882	31.397	30.882	29.338	27.279	24.706	22.132	28.824	12.868
90.0	29.853	30.368	30.368	29.853	28.824	26.250	23.676	20.588	17.500	9.265
92.5	29.338	29.338	29.853	29.338	27.794	25.735	22.647	19.559	15.441	7.206
95.0	28.824	28.824	29.338	28.309	27.279	24.706	21.618	18.015	13.382	5.147
97.5	27.794	27.794	28.309	27.794	26.250	23.676	20.074	16.471	10.809	3.088
100.0	26.765	27.279	27.279	26.765	24.706	22.647	19.044	14.926	8.750	2.059
102.5	25.735	26.250	26.250	25.221	23.676	21.103	18.015	13.382	7.206	1.544
105.0	24.706	24.706	25.221	24.191	22.647	20.074	16.471	11.324	5.147	1.029
107.5	23.676	23.676	23.676	23.162	21.103	18.529	14.412	9.779	4.118	1.029
110.0	22.647	22.647	22.647	21.618	20.074	16.985	12.868	7.721	3.088	0.515
112.5	21.103	21.103	21.103	20.074	18.015	14.926	11.324	6.176	2.574	0.515
115.0	19.559	19.559	19.559	18.529	16.471	13.382	9.265	4.632	2.059	0.515
117.5	17.500	17.500	17.500	16.471	14.412	11.324	7.206	3.603	1.544	0.000
120.0	15.441	15.441	15.441	14.412	12.353	9.265	5.147	3.088	1.544	0.000
122.5	13.382	13.382	13.382	12.353	10.294	7.206	3.603	2.574	1.544	0.000
125.0	11.324	11.324	11.324	10.294	8.235	5.147	3.088	2.059	1.029	0.000
127.5	9.265	9.265	9.265	8.235	6.176	3.603	2.574	2.059	1.029	0.000
130.0	7.206	7.206	6.691	6.176	4.118	2.574	2.574	2.059	1.029	0.000
132.5	5.147	5.147	4.632	4.118	2.574	2.574	2.059	1.544	0.515	0.000
135.0	3.088	2.574	2.574	2.059	2.059	2.059	2.059	1.544	0.515	0.000
137.5	0.515	0.515	1.029	1.544	1.544	2.059	1.544	1.544	0.515	0.000
140.0	0.000	0.000	0.515	1.029	1.544	1.544	1.029	1.029	0.000	0.000
142.5	0.000	0.000	0.515	1.029	1.029	1.029	1.029	1.029	0.000	0.000
145.0	0.000	0.000	0.515	0.515	1.029	1.029	1.029	1.029	0.000	0.000
147.5	0.000	0.000	0.000	0.515	0.515	0.515	0.515	1.029	0.000	0.000
150.0	0.000	0.000	0.000	0.515	0.515	0.515	0.515	0.515	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.515	0.515	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles				
	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1758.750	1758.750	1758.750	1758.750	1758.750
0.5	1758.750	1773.677	1785.000	1793.236	1794.780
1.0	1758.750	1790.148	1808.677	1820.515	1822.059
1.5	1758.236	1799.412	1826.692	1840.589	1840.074
2.0	1757.721	1811.765	1840.589	1851.398	1846.250
2.5	1756.177	1821.030	1847.280	1849.339	1838.015
3.0	1754.633	1828.236	1847.795	1836.986	1818.971

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CANDELA TABULATION - (Cont.)

3.5	1753.603	1832.353	1841.103	1816.912	1791.177
4.0	1751.545	1835.956	1828.750	1788.089	1755.148
4.5	1748.456	1835.442	1811.250	1753.089	1712.942
5.0	1744.853	1832.868	1788.603	1712.942	1664.559
5.5	1740.736	1827.206	1762.353	1668.677	1613.089
6.0	1735.589	1818.456	1731.986	1620.295	1558.015
6.5	1730.442	1808.162	1698.015	1568.824	1499.339
7.0	1725.809	1796.324	1661.986	1515.809	1439.118
7.5	1720.148	1781.912	1623.897	1460.221	1377.868
8.0	1713.971	1766.471	1583.236	1403.603	1315.589
8.5	1707.795	1753.603	1541.545	1344.927	1251.765
9.0	1701.103	1729.927	1497.795	1286.250	1187.941
9.5	1693.897	1714.486	1453.015	1226.544	1123.603
10.0	1686.177	1691.839	1408.236	1166.839	1058.750
11.0	1671.250	1645.000	1315.074	1047.941	932.133
11.5	1663.015	1619.265	1268.750	988.236	869.853
12.0	1654.780	1591.986	1220.883	929.559	809.118
12.5	1646.030	1564.706	1173.530	871.912	750.956
13.0	1636.250	1537.427	1126.177	815.294	689.706
13.5	1626.986	1508.603	1078.824	760.221	624.338
14.0	1617.206	1480.809	1031.471	703.088	561.544
14.5	1607.427	1452.500	985.662	641.838	503.382
15.0	1597.647	1423.677	938.824	582.647	448.824
16.0	1576.030	1366.544	837.427	474.044	351.030
17.0	1554.927	1308.383	751.985	379.338	266.103
18.0	1531.765	1249.191	667.574	296.471	188.897
19.0	1508.089	1190.515	575.441	221.838	116.324
20.0	1481.839	1132.868	491.030	150.294	73.088
22.5	1413.897	988.236	314.485	48.897	26.765
25.0	1342.353	847.206	170.882	24.191	17.500
27.5	1266.692	714.412	70.000	16.985	12.868
30.0	1188.971	592.941	31.397	12.868	3.088
32.5	1110.221	470.441	21.618	4.118	2.574
35.0	1029.412	356.177	16.471	3.603	2.059
37.5	949.118	258.382	11.838	3.088	1.544
40.0	869.338	171.397	5.662	2.059	1.029
42.5	790.588	96.765	4.632	1.544	0.515
45.0	712.353	49.412	4.118	1.544	0.515
47.5	637.721	29.338	3.603	1.544	0.515
50.0	565.147	21.103	3.088	1.029	0.515
52.5	496.691	15.956	2.574	1.029	0.000
55.0	427.206	10.809	2.574	1.029	0.000
57.5	368.015	7.206	2.059	1.029	0.000
60.0	313.456	6.176	2.059	1.029	0.000
62.5	263.015	5.662	2.059	0.515	0.000
65.0	216.691	5.147	1.544	0.515	0.000
67.5	173.971	4.118	1.544	0.515	0.000
70.0	135.368	3.603	1.544	0.515	0.000
72.5	101.397	3.088	1.029	0.515	0.000
75.0	71.544	2.574	1.029	0.515	0.000
77.5	46.838	2.059	0.515	0.515	0.000
80.0	26.250	1.544	0.515	0.000	0.000
82.5	15.441	1.029	0.515	0.000	0.000
85.0	8.750	0.515	0.000	0.000	0.000
87.5	3.603	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-6D-4FT-B-8TW-ITL88851.902.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	393.40	N.A.	29.60
0-30	620.32	N.A.	46.60
0-40	809.76	N.A.	60.90
0-60	1073.93	N.A.	80.80
0-80	1273.95	N.A.	95.80
0-90	1299.99	N.A.	97.70
10-90	1159.42	N.A.	87.20
20-40	416.36	N.A.	31.30
20-50	563.22	N.A.	42.30
40-70	367.19	N.A.	27.60
60-80	200.02	N.A.	15.00
70-80	96.99	N.A.	7.30
80-90	26.04	N.A.	2.00
90-110	20.64	N.A.	1.60
90-120	26.33	N.A.	2.00
90-130	29.02	N.A.	2.20
90-150	29.94	N.A.	2.30
90-180	29.95	N.A.	2.30
110-180	9.31	N.A.	0.70
0-180	1329.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.57
10-20	252.84
20-30	226.91
30-40	189.44
40-50	146.87
50-60	117.30
60-70	103.03
70-80	96.99
80-90	26.04
90-100	11.78
100-110	8.86
110-120	5.69
120-130	2.68
130-140	0.75
140-150	0.16
150-160	0.02
160-170	0.00
170-180	0.00

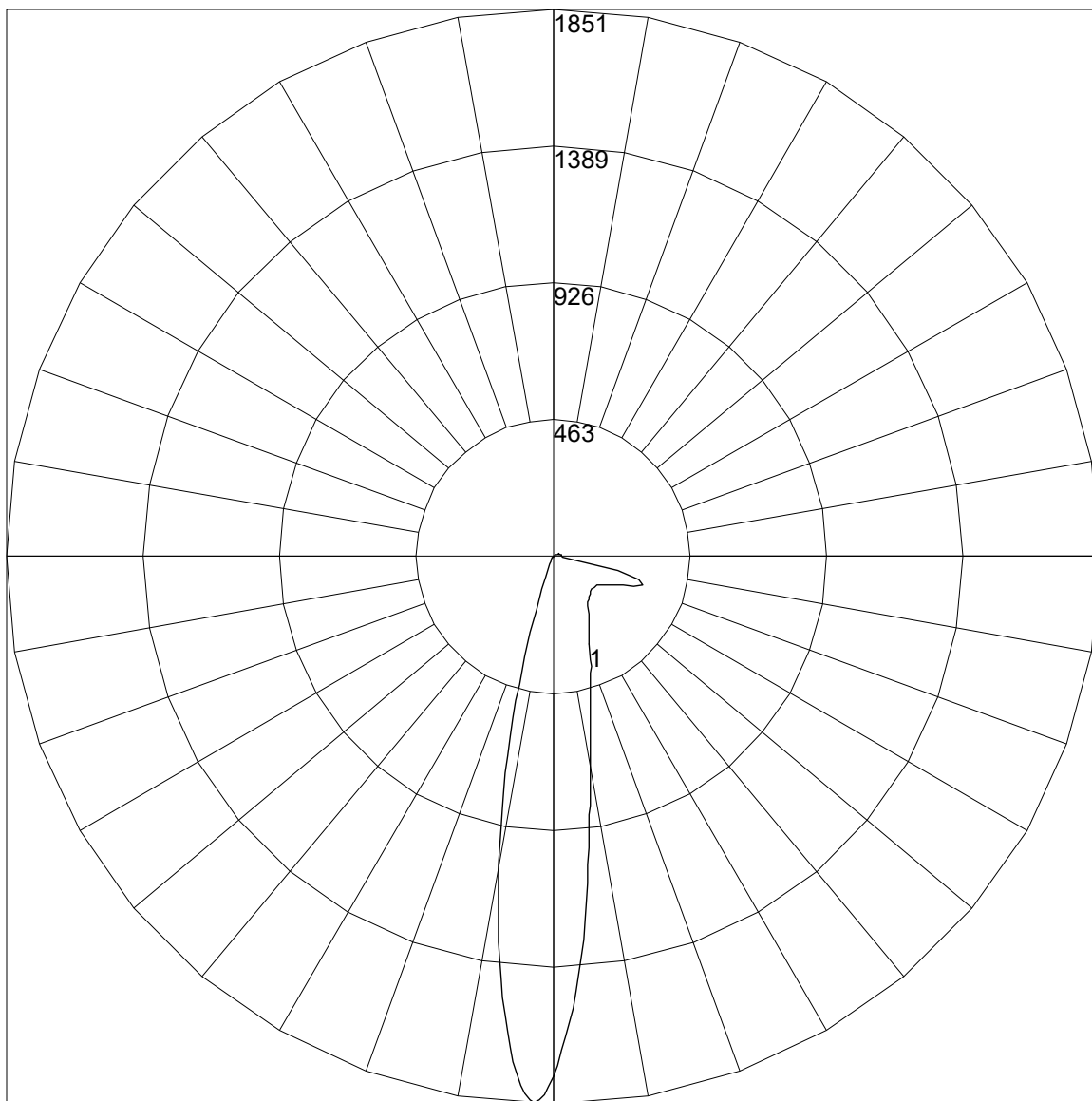
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93	94	92	89	90	88	86	84
2	101	94	88	83	98	92	86	82	88	84	80	85	81	78	81	78	76	73
3	94	85	78	72	91	83	77	71	80	74	70	77	72	68	74	70	67	65
4	88	77	70	64	85	76	69	64	73	67	62	71	66	61	69	64	60	58
5	82	71	63	58	80	70	63	57	68	61	57	66	60	56	64	59	55	53
6	77	66	58	53	75	65	58	52	63	56	52	61	55	51	59	54	51	49
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	56	51	47	45
8	69	57	50	45	67	56	50	45	55	49	44	54	48	44	53	47	44	42
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	47	42	38	37

POLAR GRAPH



Maximum Candela = 1851.398 Located At Horizontal Angle = 157.5, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (0 - 180)