

# 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-2D-4FT-B-8TW-ITL88542.902.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL88542.902 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]10/26/16  
[ISSUEDATE]01/19/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-WG-6W-2D-4ft-B-8TW  
[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & CRI's  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.2 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 21.5 WATTS  
[ABSOLUTE]LUMENS]1327  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL88542. 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](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	1327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	20.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.24
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.01 ft
Luminous Height	0.33 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	697	808	5676
55	660	702	4323
65	925	745	3023
75	732	986	1804
85	122	135	581

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>85</b>
<b>0.0</b>	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259
<b>0.5</b>	1642.021	1647.683	1637.388	1640.477	1644.080	1650.257	1656.948	1664.670	1672.391	1680.626
<b>1.0</b>	1579.737	1595.694	1586.429	1593.121	1601.356	1613.710	1627.093	1642.536	1659.007	1676.509
<b>1.5</b>	1529.808	1538.558	1531.867	1542.161	1556.059	1575.105	1603.930	1620.402	1645.624	1671.361
<b>2.0</b>	1459.288	1477.819	1474.216	1488.114	1508.703	1535.470	1572.016	1597.753	1631.726	1666.214
<b>2.5</b>	1402.152	1412.962	1411.932	1431.492	1456.715	1492.232	1539.588	1573.561	1616.284	1660.552
<b>3.0</b>	1341.927	1345.016	1348.104	1372.297	1403.696	1447.964	1504.585	1549.882	1601.871	1655.404
<b>3.5</b>	1277.585	1275.011	1281.188	1310.014	1348.104	1401.637	1468.554	1523.631	1586.944	1648.713
<b>4.0</b>	1182.873	1204.492	1214.272	1247.215	1291.998	1354.281	1432.007	1498.408	1571.502	1643.565
<b>4.5</b>	1136.031	1133.458	1147.356	1184.932	1233.832	1305.381	1393.916	1471.642	1555.030	1636.874
<b>5.0</b>	1065.512	1066.027	1083.013	1122.648	1176.696	1256.481	1353.766	1444.361	1539.588	1630.697
<b>5.5</b>	996.537	1002.199	1021.244	1062.938	1119.560	1207.066	1313.617	1416.050	1522.601	1625.549
<b>6.0</b>	933.224	942.489	962.564	1005.802	1064.997	1158.680	1273.982	1388.254	1505.615	1618.343
<b>6.5</b>	892.045	885.868	906.972	951.240	1013.009	1110.294	1233.832	1359.429	1488.628	1610.622
<b>7.0</b>	835.938	834.394	857.042	901.310	963.079	1063.968	1194.197	1330.603	1470.612	1603.415
<b>7.5</b>	782.405	787.038	810.201	853.954	926.532	1018.671	1154.047	1301.263	1452.597	1595.180
<b>8.0</b>	749.976	743.285	766.448	809.686	881.750	975.433	1114.927	1270.893	1434.066	1586.944
<b>8.5</b>	706.223	703.135	726.298	768.507	840.056	934.253	1076.322	1242.068	1416.050	1578.193
<b>9.0</b>	665.559	666.588	689.752	730.931	800.421	895.133	1039.260	1212.213	1397.005	1569.443
<b>9.5</b>	640.851	632.616	655.264	696.443	762.845	857.557	1003.228	1182.873	1377.959	1560.692
<b>10.0</b>	605.849	601.216	624.894	664.015	729.387	822.040	967.711	1154.047	1358.399	1551.427
<b>11.0</b>	546.139	553.346	568.788	606.364	667.618	757.183	902.339	1097.426	1319.794	1532.896
<b>11.5</b>	528.123	528.638	544.080	580.627	639.822	727.328	870.940	1069.115	1299.719	1522.601
<b>12.0</b>	503.416	506.504	521.946	556.949	614.085	699.532	842.115	1042.349	1281.188	1512.821
<b>12.5</b>	480.253	485.400	500.842	534.815	589.892	673.280	813.804	1015.582	1261.113	1502.526
<b>13.0</b>	459.663	466.869	481.797	513.711	566.729	648.573	786.523	989.845	1241.553	1492.746
<b>13.5</b>	447.824	449.368	463.781	495.180	545.625	624.894	760.786	964.108	1221.993	1482.452
<b>14.0</b>	430.837	433.926	447.824	478.194	526.064	603.790	736.078	939.401	1202.948	1472.671
<b>14.5</b>	414.881	418.998	431.867	461.207	507.019	582.171	712.400	914.178	1183.388	1461.862
<b>15.0</b>	405.100	406.130	417.969	445.765	489.518	562.611	689.752	889.986	1163.827	1450.538
<b>16.0</b>	382.452	381.937	392.747	418.484	458.119	526.064	647.028	843.659	1125.737	1428.404
<b>17.0</b>	361.348	361.862	371.128	394.291	430.323	493.636	608.423	795.273	1087.646	1408.329
<b>18.0</b>	339.728	343.846	351.053	373.187	405.100	463.781	572.391	754.094	1051.099	1386.195
<b>19.0</b>	317.595	323.257	334.066	353.626	383.481	437.529	544.080	716.003	1016.612	1364.576
<b>20.0</b>	298.035	301.638	313.477	333.037	363.921	413.851	513.711	679.972	982.639	1340.383
<b>22.5</b>	257.370	259.429	266.635	287.740	320.168	364.436	448.853	605.334	900.280	1278.614
<b>25.0</b>	234.721	235.751	240.898	253.252	280.533	323.257	395.835	535.844	827.187	1214.787
<b>27.5</b>	220.824	221.853	223.397	231.633	250.678	287.740	353.112	478.708	756.153	1149.929
<b>30.0</b>	206.411	208.470	211.043	216.706	229.059	257.885	315.021	428.264	690.266	1081.984
<b>32.5</b>	186.851	188.910	194.572	202.293	213.102	235.751	283.107	385.026	629.527	1014.553
<b>35.0</b>	172.438	172.953	177.071	185.821	198.690	216.191	256.341	347.964	573.420	945.578
<b>37.5</b>	165.746	166.776	167.805	172.953	183.762	201.263	233.692	318.109	521.432	877.632
<b>40.0</b>	161.628	162.143	162.143	164.202	170.379	186.336	214.132	287.740	473.046	809.171
<b>42.5</b>	158.025	158.025	157.510	157.510	161.114	171.923	197.660	261.488	428.264	743.285
<b>45.0</b>	151.334	151.334	152.363	152.878	153.393	160.599	182.733	237.810	389.144	677.913
<b>47.5</b>	146.186	146.186	145.671	146.701	147.730	151.334	168.320	216.706	350.538	614.085
<b>50.0</b>	148.245	148.760	146.701	141.039	142.068	143.612	154.937	197.660	315.536	549.228
<b>52.5</b>	139.495	139.495	140.524	143.612	135.891	137.436	144.127	180.159	282.592	493.121
<b>55.0</b>	136.406	135.891	134.862	135.377	137.436	130.229	134.347	163.687	252.223	435.470
<b>57.5</b>	141.554	141.039	137.950	132.803	130.744	127.141	126.111	147.216	222.882	381.422
<b>60.0</b>	146.701	146.186	143.098	137.436	128.685	126.111	118.905	132.803	196.116	330.978
<b>62.5</b>	156.481	155.452	149.275	142.068	133.318	121.479	114.272	119.934	170.894	283.622
<b>65.0</b>	175.526	173.982	164.202	150.819	137.436	124.052	113.243	108.610	147.730	239.869
<b>67.5</b>	199.204	197.660	185.306	167.291	145.671	127.141	109.125	98.830	125.082	199.719

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**CANDELA TABULATION - (Cont.)**

70.0	214.132	213.617	202.808	185.306	159.569	132.288	110.669	93.168	105.007	163.687
72.5	184.277	184.792	185.821	183.247	168.835	141.039	111.184	89.050	87.506	130.744
75.0	122.508	123.023	128.170	137.436	147.216	140.524	113.243	86.476	72.578	101.404
77.5	24.708	26.252	41.694	69.490	93.168	108.610	108.610	82.873	61.254	75.152
80.0	18.016	18.016	18.016	18.016	20.590	55.077	77.211	76.696	53.533	53.018
82.5	17.501	17.501	17.501	17.501	16.986	15.957	26.252	51.989	45.297	35.002
85.0	16.986	16.986	17.501	16.986	16.472	15.442	14.413	16.986	30.884	21.104
87.5	16.472	16.472	16.986	16.472	15.957	14.927	13.383	11.839	10.810	9.780
90.0	15.957	15.957	15.957	15.957	15.442	13.898	12.354	10.810	8.751	4.633
92.5	15.442	15.442	15.442	15.442	14.413	13.383	11.324	9.265	6.692	2.059
95.0	14.927	14.927	14.927	14.413	13.898	12.354	10.295	7.721	4.118	0.515
97.5	13.898	14.413	14.413	13.898	12.869	11.324	9.265	6.177	2.574	0.000
100.0	13.383	13.383	13.383	12.869	11.839	10.295	7.721	4.633	1.029	0.000
102.5	12.354	12.354	12.354	11.839	10.810	8.751	6.692	3.088	0.515	0.000
105.0	11.839	11.839	11.324	10.810	9.780	7.721	5.147	1.544	0.515	0.000
107.5	10.810	10.810	10.295	9.780	8.236	6.177	3.603	0.515	0.515	0.000
110.0	9.780	9.780	9.265	8.751	6.692	4.633	2.059	0.515	0.000	0.000
112.5	8.236	8.236	8.236	7.206	5.147	3.088	0.515	0.515	0.000	0.000
115.0	6.692	6.692	6.177	5.147	3.603	1.544	0.515	0.000	0.000	0.000
117.5	5.147	5.147	4.633	3.603	2.059	0.515	0.515	0.000	0.000	0.000
120.0	3.603	3.603	3.088	2.059	0.515	0.000	0.000	0.000	0.000	0.000
122.5	2.059	2.059	1.544	0.515	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0.0	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259	1685.259
0.5	1684.744	1689.892	1698.128	1705.849	1713.570	1719.747	1725.409	1728.497	1731.586	1734.674
1.0	1685.259	1693.495	1710.481	1725.409	1740.851	1752.175	1763.500	1769.162	1774.824	1780.486
1.5	1684.744	1697.098	1722.320	1744.454	1766.588	1783.060	1799.017	1807.253	1814.459	1821.665
2.0	1683.715	1700.701	1733.645	1762.470	1790.781	1811.370	1830.931	1840.196	1848.432	1857.697
2.5	1682.685	1703.790	1744.454	1779.457	1813.429	1830.416	1857.697	1866.962	1874.683	1884.978
3.0	1681.656	1706.878	1754.749	1795.928	1834.019	1853.064	1879.831	1886.523	1893.214	1903.509

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**CANDELA TABULATION - (Cont.)**

3.5	1679.597	1708.937	1764.014	1810.856	1851.520	1870.051	1893.729	1897.332	1901.965	1911.230
4.0	1678.053	1712.026	1773.794	1824.239	1865.933	1882.919	1902.479	1901.450	1902.479	1910.715
4.5	1676.509	1714.085	1782.030	1836.078	1876.742	1889.611	1903.509	1896.817	1893.729	1899.391
5.0	1674.450	1716.144	1790.266	1846.888	1884.464	1891.155	1900.420	1886.008	1878.801	1880.860
5.5	1672.391	1717.688	1797.472	1854.609	1887.037	1888.067	1890.640	1867.992	1855.123	1861.300
6.0	1669.817	1718.717	1804.164	1861.300	1888.067	1880.860	1875.198	1843.799	1825.783	1829.901
6.5	1666.214	1719.747	1809.311	1863.874	1884.978	1868.507	1853.579	1813.429	1788.722	1791.296
7.0	1663.125	1720.261	1814.459	1865.933	1879.831	1852.035	1826.813	1778.427	1748.572	1748.572
7.5	1659.007	1720.261	1817.547	1864.903	1869.536	1831.445	1795.928	1738.792	1704.305	1700.187
8.0	1654.889	1719.747	1819.606	1862.330	1857.697	1806.738	1761.441	1696.583	1655.404	1648.713
8.5	1650.257	1718.717	1820.636	1856.153	1841.740	1779.457	1723.865	1650.257	1602.901	1592.606
9.0	1646.139	1717.173	1820.636	1849.461	1823.209	1748.572	1683.200	1600.842	1546.279	1532.381
9.5	1640.991	1715.629	1819.092	1840.196	1801.590	1716.144	1638.933	1547.824	1487.599	1468.039
10.0	1636.359	1713.570	1816.003	1828.357	1778.427	1680.626	1591.576	1492.746	1425.315	1400.093
11.0	1626.064	1707.908	1807.767	1800.561	1724.379	1603.415	1489.658	1374.871	1294.571	1261.628
11.5	1619.887	1704.819	1801.076	1782.545	1695.039	1572.016	1435.095	1313.102	1226.626	1189.564
12.0	1614.740	1701.216	1793.869	1764.014	1664.670	1517.969	1379.503	1250.818	1158.680	1118.016
12.5	1609.592	1697.613	1785.119	1743.425	1632.756	1483.481	1322.367	1187.505	1089.190	1045.437
13.0	1602.386	1692.980	1774.824	1721.806	1598.783	1424.286	1263.172	1122.648	1020.215	973.888
13.5	1597.239	1687.833	1763.500	1699.672	1563.780	1389.284	1204.492	1058.820	952.269	903.369
14.0	1589.003	1682.685	1751.661	1676.509	1526.204	1340.383	1145.297	994.478	885.353	834.908
14.5	1583.855	1676.509	1738.277	1651.286	1488.114	1290.453	1085.587	930.650	820.496	768.507
15.0	1575.105	1669.817	1724.379	1625.549	1448.479	1239.494	1024.848	867.337	757.183	705.709
16.0	1559.148	1656.434	1695.554	1573.046	1367.664	1137.061	906.972	747.403	640.851	591.951
17.0	1542.676	1640.991	1663.640	1516.424	1284.791	1033.598	794.759	638.278	538.933	495.180
18.0	1524.660	1623.490	1629.152	1457.229	1198.315	930.135	690.781	542.021	453.486	415.910
19.0	1505.615	1605.474	1592.606	1395.975	1111.839	831.820	597.099	460.692	384.511	352.597
20.0	1485.540	1585.914	1555.545	1332.662	1024.848	737.108	514.740	393.776	329.434	300.608
22.5	1434.066	1527.234	1458.773	1167.945	815.863	536.359	360.833	273.327	214.132	184.277
25.0	1374.356	1461.347	1348.104	1009.405	630.042	390.688	250.164	170.379	125.082	101.919
27.5	1310.014	1389.284	1230.744	844.174	481.797	287.740	160.599	94.712	56.621	39.635
30.0	1242.068	1311.558	1101.029	691.296	369.583	196.116	91.624	37.576	24.193	21.104
32.5	1171.548	1225.596	981.609	557.978	284.137	125.082	38.606	21.619	17.501	15.442
35.0	1098.455	1139.635	857.042	446.280	202.808	66.401	22.649	16.472	13.898	12.869
37.5	1024.333	1052.129	743.285	356.715	136.406	30.370	16.986	13.383	11.839	11.324
40.0	948.666	962.049	631.586	283.622	78.240	21.104	13.898	11.324	10.295	8.236
42.5	872.999	871.970	530.697	214.132	37.576	16.472	11.839	9.265	1.544	1.544
45.0	793.729	782.405	441.132	150.819	23.678	13.383	9.780	2.059	1.544	1.029
47.5	719.607	699.532	362.892	100.374	17.501	10.810	2.059	1.544	1.029	0.515
50.0	643.940	615.629	296.490	55.592	13.898	7.206	1.544	1.029	0.515	0.515
52.5	573.420	535.844	239.869	29.340	11.324	2.574	1.544	1.029	0.515	0.515
55.0	506.504	461.207	183.247	19.560	8.751	2.059	1.029	0.515	0.515	0.000
57.5	443.191	392.232	134.347	14.413	3.088	1.544	0.515	0.515	0.000	0.000
60.0	382.452	329.434	87.506	10.810	2.059	1.029	0.515	0.000	0.000	0.000
62.5	326.345	272.298	49.415	8.236	1.544	0.515	0.515	0.000	0.000	0.000
65.0	274.871	220.824	25.737	3.088	1.029	0.515	0.000	0.000	0.000	0.000
67.5	227.000	175.526	15.442	2.059	1.029	0.515	0.000	0.000	0.000	0.000
70.0	184.277	135.377	10.295	1.544	0.515	0.000	0.000	0.000	0.000	0.000
72.5	146.186	101.404	6.177	1.029	0.000	0.000	0.000	0.000	0.000	0.000
75.0	111.699	71.034	2.574	0.515	0.000	0.000	0.000	0.000	0.000	0.000
77.5	81.844	43.238	1.544	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	57.651	23.678	0.515	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	36.032	10.295	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	18.016	3.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	7.206	1.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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. Horizontal Angles**

	<b>180</b>
0.0	1685.259
0.5	1732.615
1.0	1777.398
1.5	1817.547
2.0	1851.005
2.5	1864.389
3.0	1884.464
3.5	1894.244
4.0	1894.758
4.5	1886.008
5.0	1869.536
5.5	1844.829
6.0	1812.400
6.5	1773.794
7.0	1730.556
7.5	1683.200

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

8.0	1631.211
8.5	1575.619
9.0	1515.395
9.5	1452.597
10.0	1386.195
11.0	1248.760
11.5	1177.211
12.0	1108.235
12.5	1037.716
13.0	966.682
13.5	897.707
14.0	830.791
14.5	765.933
15.0	703.650
16.0	590.922
17.0	494.151
18.0	414.881
19.0	352.082
20.0	300.093
22.5	184.277
25.0	101.404
27.5	38.606
30.0	20.590
32.5	15.442
35.0	12.869
37.5	10.810
40.0	7.721
42.5	1.029
45.0	1.029
47.5	0.515
50.0	0.515
52.5	0.000
55.0	0.000
57.5	0.000
60.0	0.000
62.5	0.000
65.0	0.000
67.5	0.000
70.0	0.000
72.5	0.000
75.0	0.000
77.5	0.000
80.0	0.000
82.5	0.000
85.0	0.000
87.5	0.000
90.0	0.000
92.5	0.000
95.0	0.000
97.5	0.000
100.0	0.000
102.5	0.000
105.0	0.000
107.5	0.000
110.0	0.000
112.5	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>115.0</b>	0.000
<b>117.5</b>	0.000
<b>120.0</b>	0.000
<b>122.5</b>	0.000
<b>125.0</b>	0.000
<b>127.5</b>	0.000
<b>130.0</b>	0.000
<b>132.5</b>	0.000
<b>135.0</b>	0.000
<b>137.5</b>	0.000
<b>140.0</b>	0.000
<b>142.5</b>	0.000
<b>145.0</b>	0.000
<b>147.5</b>	0.000
<b>150.0</b>	0.000
<b>152.5</b>	0.000
<b>155.0</b>	0.000
<b>157.5</b>	0.000
<b>160.0</b>	0.000
<b>162.5</b>	0.000
<b>165.0</b>	0.000
<b>167.5</b>	0.000
<b>170.0</b>	0.000
<b>172.5</b>	0.000
<b>175.0</b>	0.000
<b>177.5</b>	0.000
<b>180.0</b>	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-B-8TW-ITL88542.902.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	411.94	N.A.	31.00
0-30	664.45	N.A.	50.10
0-40	870.69	N.A.	65.60
0-60	1150.04	N.A.	86.70
0-80	1304.04	N.A.	98.30
0-90	1316.61	N.A.	99.20
10-90	1175.8	N.A.	88.60
20-40	458.75	N.A.	34.60
20-50	619.27	N.A.	46.70
40-70	371.26	N.A.	28.00
60-80	153.99	N.A.	11.60
70-80	62.09	N.A.	4.70
80-90	12.57	N.A.	0.90
90-110	9.12	N.A.	0.70
90-120	10.49	N.A.	0.80
90-130	10.60	N.A.	0.80
90-150	10.60	N.A.	0.80
90-180	10.60	N.A.	0.80
110-180	1.48	N.A.	0.10
0-180	1327.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	140.81
10-20	271.12
20-30	252.51
30-40	206.24
40-50	160.52
50-60	118.83
60-70	91.91
70-80	62.09
80-90	12.57
90-100	5.68
100-110	3.44
110-120	1.37
120-130	0.11
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

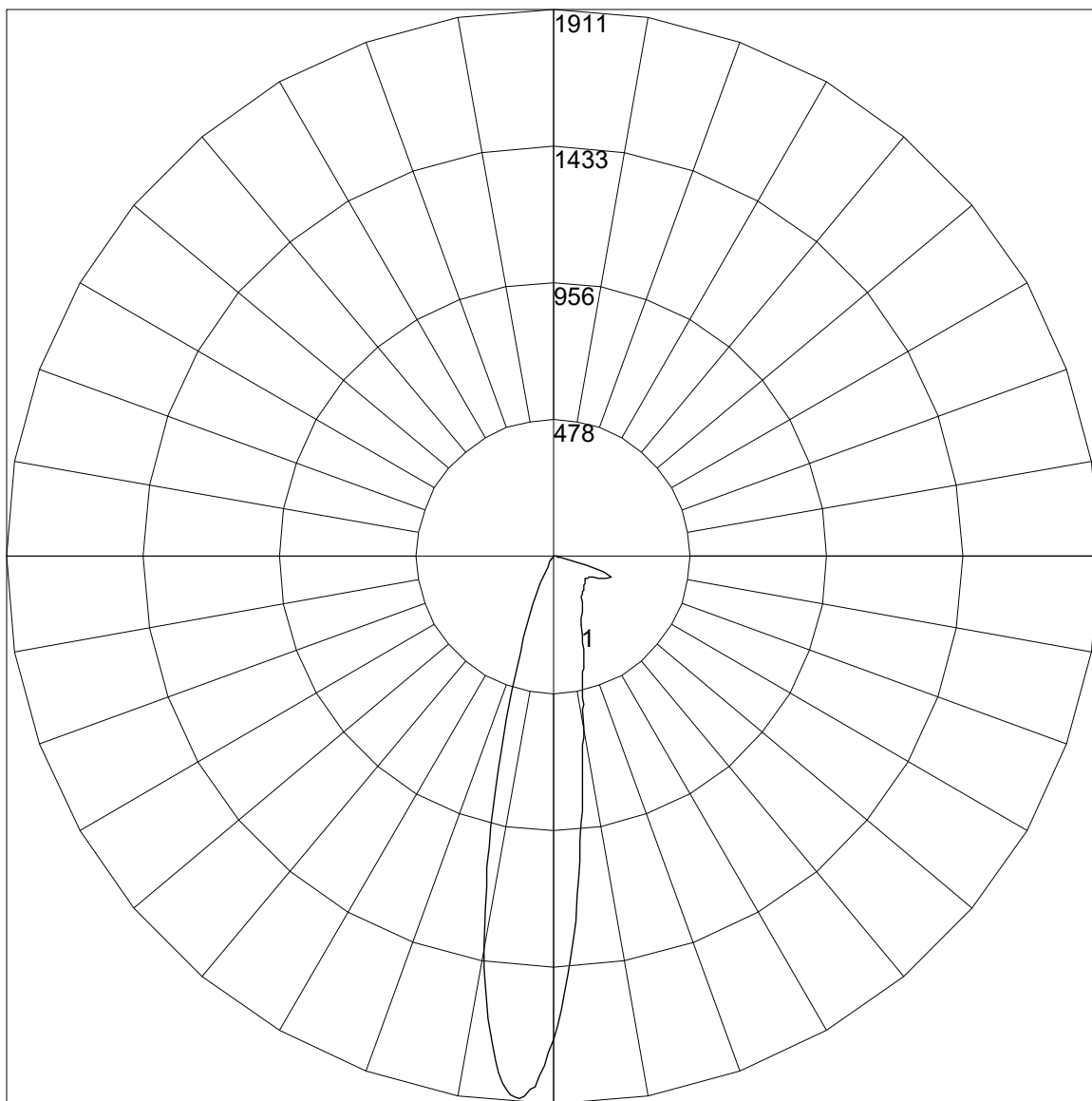
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-B-8TW-ITL88542.902.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	111	107	104	100	108	105	102	99	100	98	96	96	94	92	93	91	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	66	61	82	73	66	61	71	64	60	69	63	59	67	62	59	57
6	79	68	61	56	77	67	60	55	66	59	55	64	58	54	62	58	54	52
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 1911.23 Located At Horizontal Angle = 175, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)