



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-740-TFT-XXX-CGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009828
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2024-02-01
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L85-740-TFT-xxx-CGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] CLEAR GLASS LENS
[LAMPCAT] X8-LUXEON M
[LAMP] (8) LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8665
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3025.621
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	3025.621
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	538.592 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L85-740-TFT-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	510.0	N.A.	5.9
FM - Front-Medium (30-60)	2207.2	N.A.	25.5
FH - Front-High (60-80)	1988.4	N.A.	22.9
FVH - Front-Very High (80-90)	45.1	N.A.	0.5
BL - Back-Low (0-30)	494.4	N.A.	5.7
BM - Back-Medium (30-60)	2041.0	N.A.	23.6
BH - Back-High (60-80)	1372.0	N.A.	15.8
BVH - Back-Very High (80-90)	6.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8664.7	N.A.	100.0
BUG Rating	B3-U0-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VWPX-L85-740-TFT-XXX-CGL-DIM-UNV_.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194
2.5	1108.867	1105.698	1104.114	1100.946	1097.778	1096.194	1096.194	1097.778	1094.610	1093.026
5.0	1107.282	1102.530	1099.362	1097.778	1096.194	1096.194	1094.610	1096.194	1093.026	1093.026
7.5	1107.282	1102.530	1097.778	1097.778	1096.194	1096.194	1094.610	1093.026	1089.857	1088.273
10.0	1112.035	1105.698	1100.946	1102.530	1099.362	1099.362	1097.778	1096.194	1091.441	1088.273
12.5	1126.292	1118.371	1115.203	1116.787	1113.619	1112.035	1110.451	1105.698	1099.362	1094.610
15.0	1146.885	1135.796	1134.212	1140.548	1140.548	1137.380	1135.796	1131.044	1123.123	1115.203
17.5	1173.814	1161.142	1153.221	1161.142	1162.726	1164.310	1167.478	1164.310	1154.805	1146.885
20.0	1218.169	1207.080	1194.408	1195.992	1192.824	1197.576	1200.744	1202.328	1194.408	1186.487
22.5	1275.196	1264.108	1248.267	1245.099	1237.178	1240.346	1241.930	1243.515	1238.762	1232.426
25.0	1336.976	1329.056	1308.462	1302.126	1291.037	1292.622	1289.453	1292.622	1286.285	1283.117
27.5	1400.340	1387.667	1367.074	1360.738	1346.481	1348.065	1338.560	1338.560	1336.976	1341.728
30.0	1476.377	1466.872	1439.942	1427.270	1411.429	1405.092	1389.251	1390.835	1387.667	1389.251
32.5	1561.918	1546.077	1525.483	1508.058	1487.465	1470.040	1449.447	1446.279	1436.774	1432.022
35.0	1653.795	1641.122	1618.945	1599.936	1571.422	1549.245	1522.315	1508.058	1493.802	1477.961
37.5	1739.336	1729.832	1707.654	1691.813	1660.132	1633.202	1601.520	1569.838	1550.829	1533.404
40.0	1821.709	1815.373	1791.611	1777.355	1747.257	1717.159	1682.309	1647.459	1622.113	1598.352
42.5	1907.250	1899.330	1877.153	1859.728	1831.214	1797.948	1764.682	1733.000	1704.486	1683.893
45.0	1984.871	1978.535	1962.694	1945.269	1916.755	1881.905	1850.223	1818.541	1797.948	1783.691
47.5	2057.739	2051.403	2043.483	2032.394	2005.464	1965.862	1937.348	1905.666	1892.994	1891.409
50.0	2098.926	2100.510	2103.678	2110.015	2097.342	2057.739	2037.146	2011.801	2000.712	2005.464
52.5	2108.430	2117.935	2143.281	2171.794	2181.299	2154.369	2148.033	2133.776	2122.687	2129.024
55.0	2125.855	2136.944	2181.299	2233.574	2266.840	2260.504	2265.256	2273.176	2265.256	2266.840
57.5	2208.228	2228.822	2268.424	2336.540	2384.063	2398.320	2412.577	2442.674	2445.843	2436.338
60.0	2304.858	2330.204	2376.143	2460.100	2523.463	2563.066	2591.579	2658.111	2691.377	2680.289
62.5	2317.531	2346.045	2403.072	2487.029	2540.888	2607.420	2678.705	2830.778	2914.735	2921.071
65.0	2236.742	2270.008	2334.956	2420.497	2491.781	2572.570	2670.784	2889.389	3006.612	3025.621
67.5	2189.219	2228.822	2331.788	2409.408	2441.090	2461.684	2547.225	2802.264	2946.417	2949.585
70.0	2114.767	2163.874	2295.354	2391.983	2437.922	2409.408	2430.002	2531.384	2643.855	2640.686
72.5	1786.859	1828.046	2052.987	2206.644	2281.097	2224.069	2295.354	2193.972	2051.403	1965.862
75.0	763.534	790.463	959.962	1159.558	1336.976	1490.633	1693.398	1790.027	1560.334	1484.297
77.5	275.633	281.969	316.819	356.421	449.883	641.558	926.696	1093.026	1078.769	1119.955
80.0	112.471	115.639	131.480	153.657	194.844	253.455	370.678	479.981	508.494	538.592
82.5	45.939	47.523	55.443	61.780	82.373	109.303	156.825	198.012	209.101	232.862
85.0	17.425	17.425	19.009	22.177	28.514	38.018	57.027	72.868	74.452	87.125
87.5	4.752	4.752	4.752	4.752	4.752	4.752	6.336	6.336	9.505	12.673
90.0	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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194
2.5	1091.441	1089.857	1093.026	1094.610	1091.441	1088.273	1088.273	1088.273	1088.273	1088.273
5.0	1088.273	1086.689	1089.857	1089.857	1086.689	1081.937	1078.769	1078.769	1077.185	1078.769
7.5	1086.689	1081.937	1085.105	1083.521	1080.353	1074.016	1069.264	1069.264	1067.680	1067.680
10.0	1086.689	1078.769	1081.937	1083.521	1083.521	1077.185	1070.848	1069.264	1067.680	1066.096
12.5	1093.026	1088.273	1091.441	1091.441	1093.026	1086.689	1080.353	1077.185	1074.016	1072.432
15.0	1115.203	1112.035	1113.619	1112.035	1110.451	1105.698	1096.194	1088.273	1085.105	1083.521
17.5	1143.717	1142.132	1140.548	1137.380	1131.044	1121.539	1115.203	1108.867	1107.282	1105.698
20.0	1181.735	1180.151	1178.567	1169.062	1161.142	1150.053	1145.301	1143.717	1143.717	1142.132
22.5	1227.674	1218.169	1215.001	1207.080	1199.160	1192.824	1191.239	1189.655	1189.655	1188.071
25.0	1279.949	1264.108	1260.940	1254.603	1248.267	1249.851	1249.851	1248.267	1248.267	1241.930
27.5	1332.224	1313.215	1305.294	1300.542	1298.958	1305.294	1305.294	1306.878	1310.047	1300.542

IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-740-TFT-XXX-CGL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	1389.251	1367.074	1351.233	1352.817	1354.401	1365.490	1365.490	1368.658	1376.579	1367.074
32.5	1438.358	1427.270	1403.508	1406.676	1411.429	1425.686	1433.606	1441.526	1451.031	1438.358
35.0	1484.297	1485.881	1465.288	1470.040	1481.129	1498.554	1509.643	1523.899	1536.572	1522.315
37.5	1533.404	1544.493	1539.740	1547.661	1563.502	1585.679	1599.936	1615.777	1618.945	1614.193
40.0	1596.768	1615.777	1622.113	1637.954	1652.211	1672.804	1694.982	1710.823	1710.823	1707.654
42.5	1674.388	1694.982	1704.486	1726.664	1744.089	1759.930	1780.523	1793.196	1788.443	1790.027
45.0	1767.850	1782.107	1794.780	1815.373	1832.798	1847.055	1858.143	1858.143	1851.807	1854.975
47.5	1875.568	1877.153	1880.321	1904.082	1919.923	1942.100	1946.853	1937.348	1927.844	1935.764
50.0	1995.960	1988.039	1980.119	1995.960	2011.801	2035.562	2030.810	2010.217	1997.544	2008.632
52.5	2125.855	2111.599	2094.174	2105.262	2111.599	2117.935	2087.837	2051.403	2040.314	2056.155
55.0	2266.840	2260.504	2228.822	2219.317	2206.644	2186.051	2116.351	2051.403	2032.394	2051.403
57.5	2447.427	2437.922	2384.063	2358.717	2315.947	2270.008	2167.042	2094.174	2078.333	2084.669
60.0	2688.209	2673.952	2585.243	2526.632	2461.684	2384.063	2262.088	2190.803	2176.547	2178.131
62.5	2906.814	2856.123	2700.882	2582.075	2499.702	2393.568	2266.840	2193.972	2176.547	2179.715
65.0	2997.108	2908.398	2708.802	2558.313	2475.940	2372.974	2266.840	2198.724	2186.051	2179.715
67.5	2949.585	2843.451	2615.341	2507.622	2488.613	2414.161	2312.779	2200.308	2174.962	2173.378
70.0	2702.466	2609.004	2499.702	2502.870	2551.977	2499.702	2355.549	2173.378	2129.024	2136.944
72.5	2046.651	2252.583	2415.745	2371.390	2422.081	2334.956	2116.351	1859.728	1804.284	1848.639
75.0	1593.600	1869.232	1835.966	1661.716	1405.092	1241.930	975.803	790.463	795.216	788.879
77.5	1102.530	1118.371	986.891	738.188	470.476	415.033	348.501	300.978	307.314	300.978
80.0	524.335	498.990	394.440	296.226	217.021	194.844	159.994	139.400	137.816	131.480
82.5	218.605	215.437	177.419	136.232	104.550	85.541	71.284	61.780	63.364	63.364
85.0	83.957	87.125	72.868	57.027	42.771	36.434	30.098	28.514	26.930	26.930
87.5	15.841	20.593	15.841	14.257	12.673	11.089	9.505	7.920	7.920	7.920
90.0	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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194
2.5	1088.273	1086.689	1086.689	1085.105	1086.689	1091.441	1088.273	1088.273	1091.441	1096.194
5.0	1077.185	1075.601	1077.185	1080.353	1080.353	1085.105	1083.521	1083.521	1086.689	1089.857
7.5	1066.096	1066.096	1070.848	1074.016	1075.601	1078.769	1078.769	1077.185	1080.353	1085.105
10.0	1066.096	1067.680	1072.432	1075.601	1074.016	1075.601	1075.601	1075.601	1078.769	1081.937
12.5	1074.016	1077.185	1083.521	1085.105	1083.521	1078.769	1078.769	1078.769	1083.521	1088.273
15.0	1086.689	1093.026	1097.778	1102.530	1100.946	1099.362	1097.778	1097.778	1099.362	1105.698
17.5	1105.698	1107.282	1115.203	1123.123	1123.123	1126.292	1124.707	1123.123	1123.123	1127.876
20.0	1138.964	1137.380	1140.548	1151.637	1153.221	1156.389	1156.389	1157.973	1154.805	1154.805
22.5	1183.319	1181.735	1181.735	1189.655	1192.824	1192.824	1192.824	1194.408	1191.239	1188.071
25.0	1243.515	1240.346	1232.426	1237.178	1237.178	1235.594	1240.346	1238.762	1235.594	1229.258
27.5	1305.294	1297.374	1287.869	1287.869	1281.533	1279.949	1294.206	1289.453	1281.533	1268.860
30.0	1367.074	1355.985	1343.313	1335.392	1329.056	1330.640	1340.144	1330.640	1319.551	1305.294
32.5	1433.606	1416.181	1403.508	1390.835	1379.747	1384.499	1379.747	1367.074	1354.401	1344.897
35.0	1514.395	1493.802	1473.208	1457.367	1436.774	1428.854	1419.349	1397.172	1387.667	1379.747
37.5	1607.856	1585.679	1565.086	1533.404	1500.138	1484.297	1462.120	1441.526	1427.270	1420.933
40.0	1699.734	1677.557	1656.963	1620.529	1573.006	1541.324	1514.395	1495.386	1479.545	1476.377
42.5	1782.107	1758.345	1742.505	1699.734	1655.379	1611.025	1577.759	1558.749	1544.493	1544.493
45.0	1859.728	1845.471	1821.709	1777.355	1733.000	1687.061	1650.627	1634.786	1623.697	1617.361
47.5	1945.269	1938.932	1907.250	1859.728	1813.789	1763.098	1737.752	1715.575	1704.486	1691.813
50.0	2026.058	2029.226	1997.544	1950.021	1902.498	1850.223	1835.966	1810.621	1790.027	1774.186
52.5	2091.005	2106.846	2091.005	2038.730	2005.464	1961.110	1940.516	1905.666	1889.825	1870.816
55.0	2105.262	2154.369	2170.210	2143.281	2122.687	2084.669	2057.739	2018.137	2005.464	1991.207
57.5	2136.944	2193.972	2250.999	2257.335	2246.247	2227.238	2201.892	2152.785	2138.528	2130.608
60.0	2219.317	2273.176	2358.717	2399.904	2399.904	2418.913	2407.824	2355.549	2334.956	2319.115
62.5	2216.149	2277.929	2369.806	2452.179	2523.463	2609.004	2629.598	2586.827	2572.570	2532.968
65.0	2197.140	2243.079	2341.292	2442.674	2518.711	2683.457	2772.166	2770.582	2710.387	2637.518

IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-740-TFT-XXX-CGL-DIM-UNV_.IES

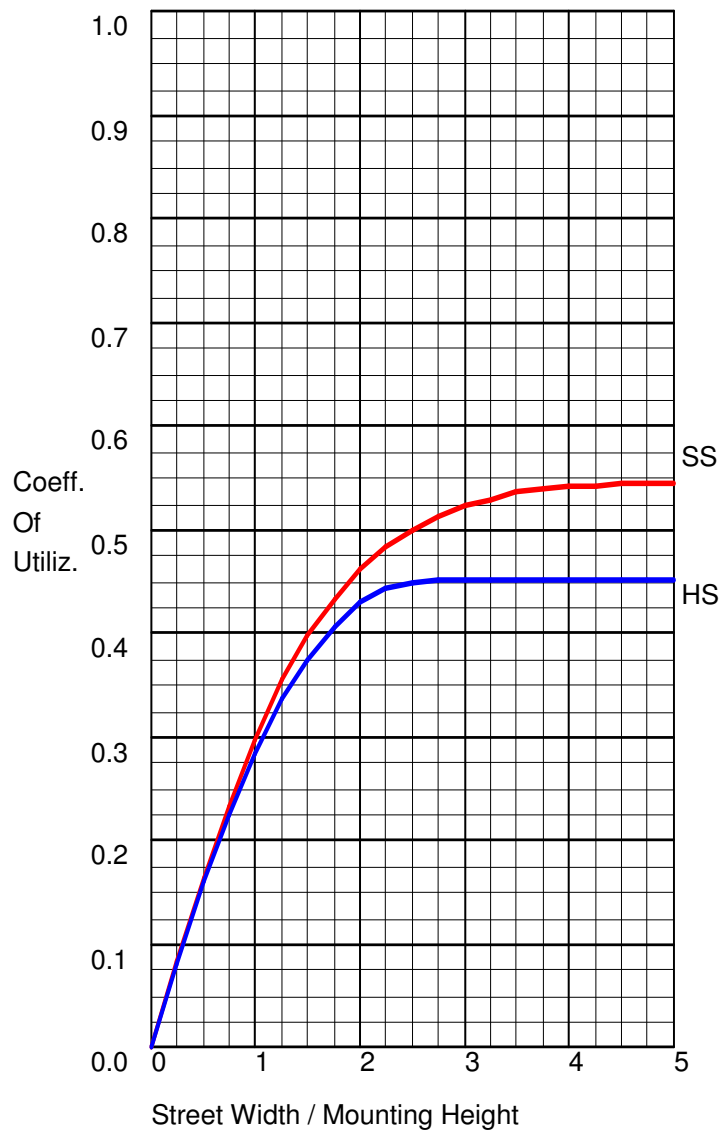
CANDELA TABULATION - (Cont.)

67.5	2219.317	2287.433	2338.124	2371.390	2436.338	2672.368	2792.759	2616.925	2431.586	2338.124
70.0	2217.733	2338.124	2384.063	2365.054	2350.797	2482.277	2184.467	2003.880	2173.378	1314.799
72.5	2033.978	2252.583	2371.390	2304.858	2346.045	1712.407	1512.811	1062.928	198.012	36.434
75.0	983.723	1238.762	1509.643	1577.759	1438.358	1192.824	274.048	26.930	6.336	4.752
77.5	351.669	405.528	492.654	589.283	684.329	19.009	6.336	4.752	3.168	3.168
80.0	156.825	177.419	167.914	136.232	52.275	3.168	3.168	1.584	1.584	1.584
82.5	68.116	68.116	44.355	19.009	3.168	1.584	1.584	1.584	1.584	1.584
85.0	28.514	15.841	7.920	1.584	1.584	1.584	1.584	0.000	0.000	0.000
87.5	6.336	1.584	1.584	1.584	1.584	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

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194	1096.194
2.5	1094.610	1096.194	1099.362	1099.362	1102.530	1099.362	1094.610
5.0	1088.273	1088.273	1091.441	1091.441	1093.026	1091.441	1085.105
7.5	1081.937	1081.937	1083.521	1081.937	1083.521	1081.937	1075.601
10.0	1080.353	1080.353	1080.353	1081.937	1085.105	1081.937	1078.769
12.5	1088.273	1091.441	1088.273	1091.441	1094.610	1091.441	1088.273
15.0	1107.282	1107.282	1104.114	1105.698	1104.114	1099.362	1097.778
17.5	1126.292	1124.707	1116.787	1115.203	1113.619	1113.619	1112.035
20.0	1151.637	1148.469	1137.380	1137.380	1138.964	1140.548	1142.132
22.5	1183.319	1178.567	1165.894	1167.478	1172.230	1176.983	1183.319
25.0	1221.337	1210.249	1202.328	1203.912	1210.249	1218.169	1222.921
27.5	1253.019	1243.515	1237.178	1240.346	1246.683	1256.187	1262.524
30.0	1287.869	1281.533	1281.533	1284.701	1292.622	1305.294	1313.215
32.5	1330.640	1324.303	1324.303	1330.640	1341.728	1357.569	1367.074
35.0	1374.994	1365.490	1374.994	1384.499	1400.340	1417.765	1430.438
37.5	1419.349	1424.101	1439.942	1454.199	1470.040	1492.217	1509.643
40.0	1477.961	1492.217	1506.474	1525.483	1547.661	1573.006	1590.431
42.5	1547.661	1563.502	1580.927	1598.352	1620.529	1649.043	1668.052
45.0	1620.529	1634.786	1652.211	1669.636	1691.813	1721.911	1737.752
47.5	1693.398	1701.318	1723.495	1739.336	1761.514	1791.611	1802.700
50.0	1774.186	1778.939	1799.532	1815.373	1835.966	1862.896	1869.232
52.5	1869.232	1869.232	1881.905	1894.578	1900.914	1918.339	1919.923
55.0	1980.119	1970.614	1972.198	1973.782	1961.110	1957.941	1951.605
57.5	2111.599	2097.342	2084.669	2059.324	2010.217	1981.703	1969.030
60.0	2296.938	2265.256	2220.901	2154.369	2071.996	2046.651	2037.146
62.5	2453.763	2360.302	2274.760	2186.051	2105.262	2079.917	2065.660
65.0	2482.277	2361.886	2255.751	2133.776	1953.189	1713.991	1712.407
67.5	2315.947	1813.789	1194.408	658.984	331.076	191.675	142.569
70.0	451.467	226.526	26.930	9.505	6.336	6.336	6.336
72.5	9.505	6.336	4.752	4.752	4.752	4.752	3.168
75.0	4.752	3.168	3.168	3.168	1.584	1.584	1.584
77.5	1.584	1.584	1.584	1.584	1.584	0.000	0.000
80.0	1.584	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	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

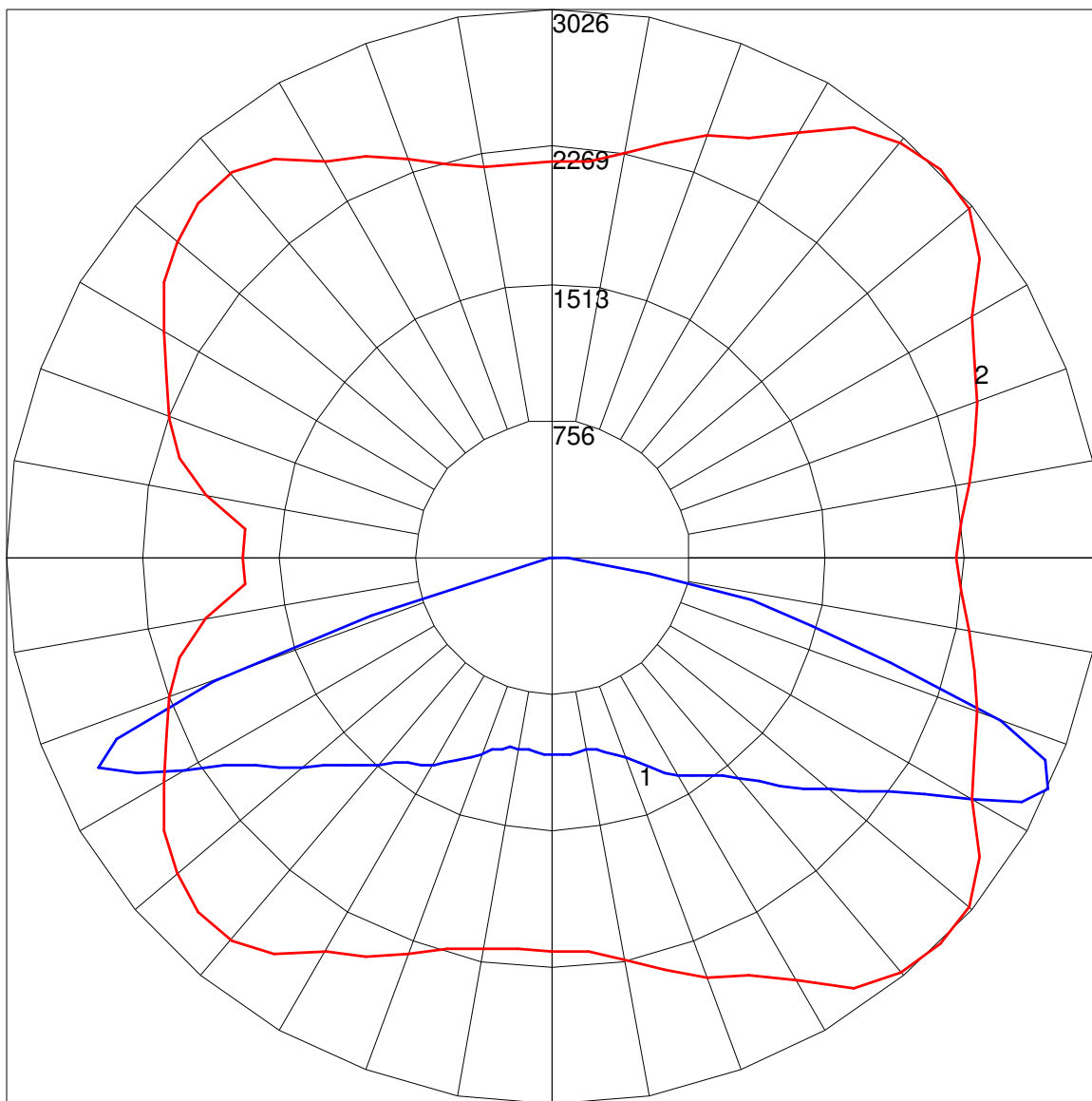
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

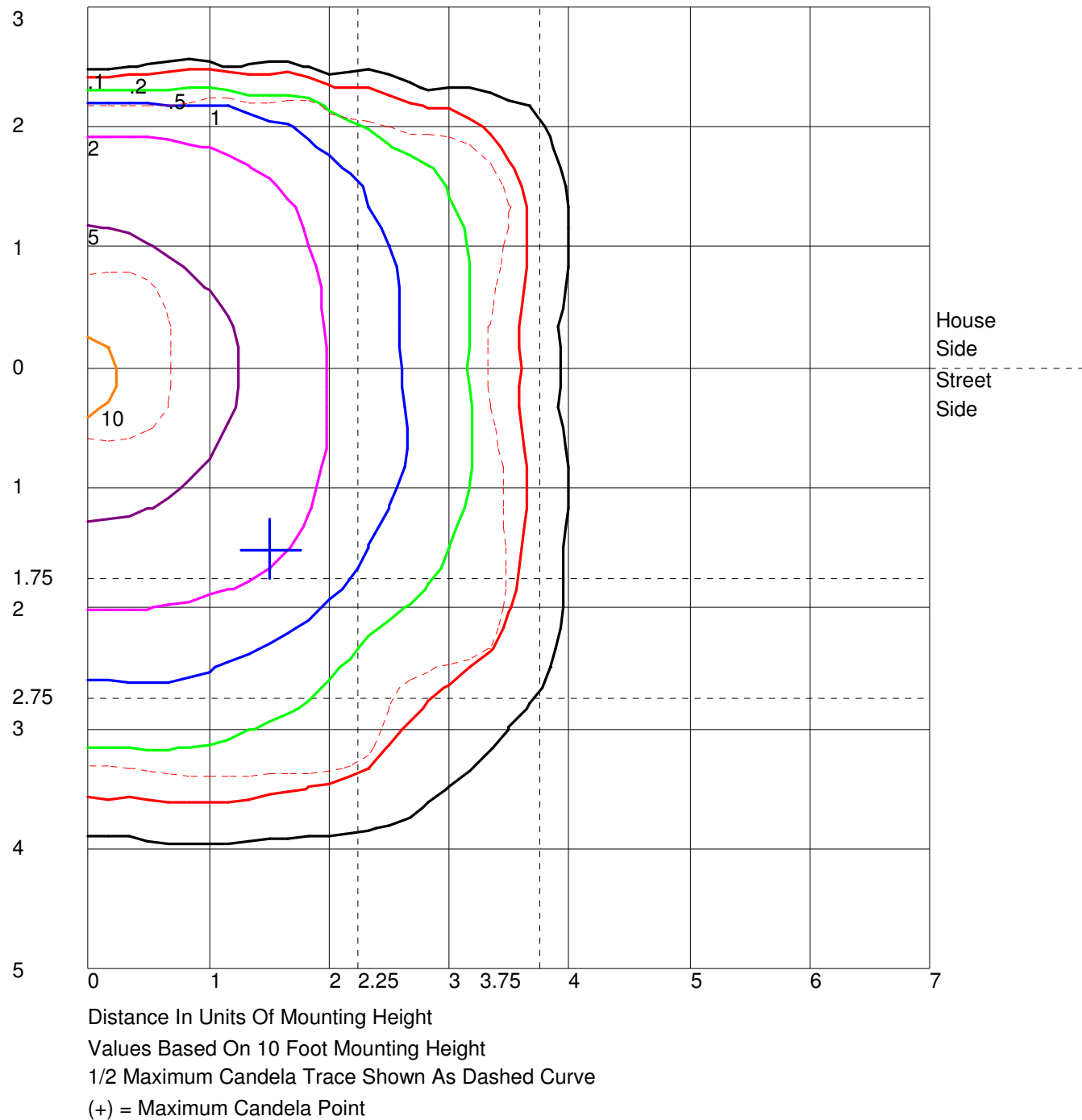
	Lumens	Percent Of Luminaire
Downward Street Side	4750.8	54.8
Downward House Side	3914.0	45.2
Downward Total	8664.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8664.8	100.0

POLAR GRAPH

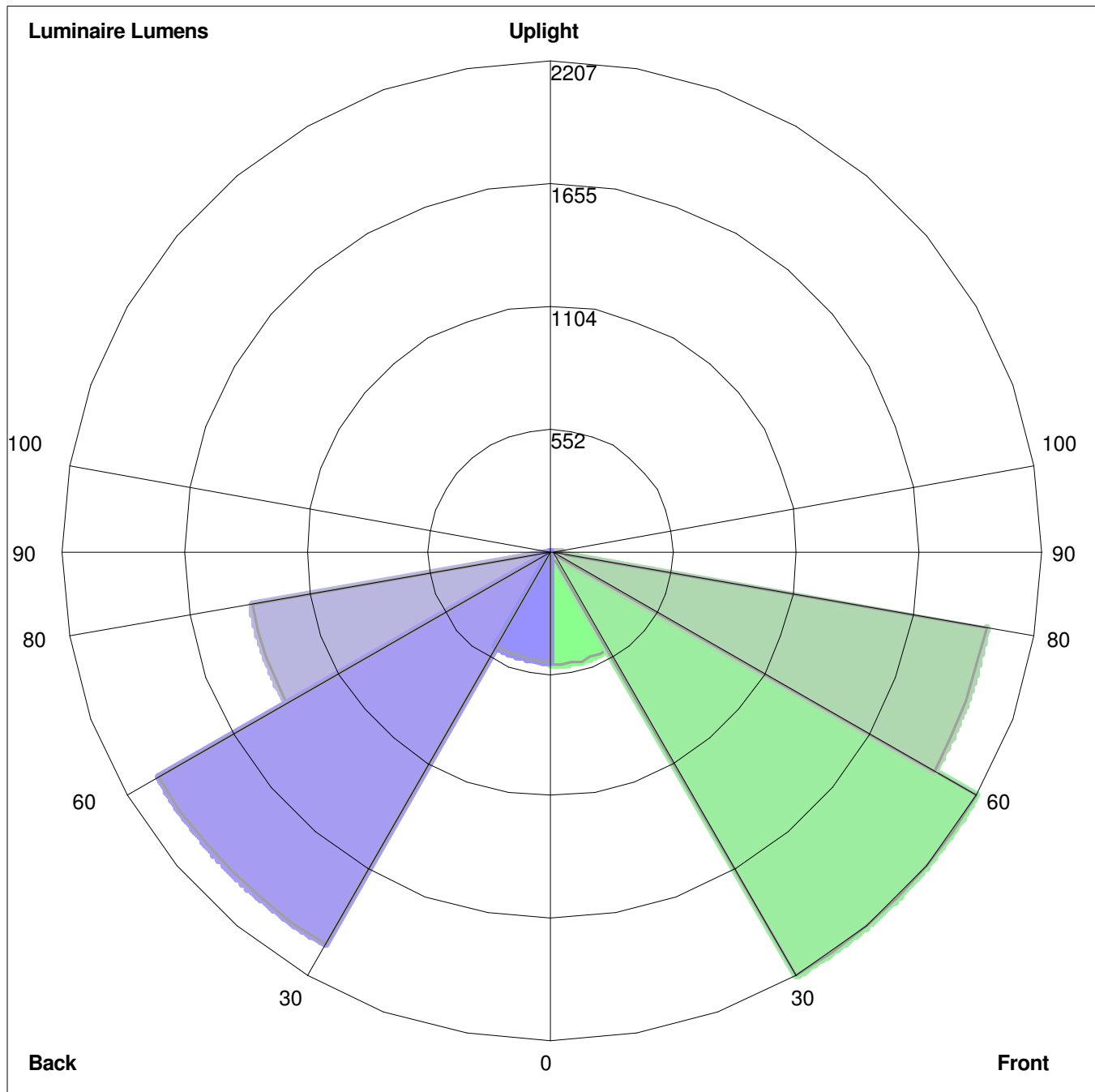


Maximum Candela = 3025.621 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=510.0, Medium=2207.2, High=1988.4, Very High=45.1
Back: Low=494.4, Medium= 2041.0, High= 1372.0, Very High=6.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3