



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-830-TFT-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009421
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2024-02-01
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPX-L85-830-TFT-xxx-SDGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] MICRO-PRISMATIC 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	7302
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2009.512
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	2009.512
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	556.436 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L85-830-TFT-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	508.3	N.A.	7.0
FM - Front-Medium (30-60)	2029.5	N.A.	27.8
FH - Front-High (60-80)	1289.2	N.A.	17.7
FVH - Front-Very High (80-90)	98.6	N.A.	1.4
BL - Back-Low (0-30)	492.3	N.A.	6.7
BM - Back-Medium (30-60)	1923.4	N.A.	26.3
BH - Back-High (60-80)	940.6	N.A.	12.9
BVH - Back-Very High (80-90)	20.4	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7302.3	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>	<u>45.0</u>
0.0	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340
2.5	1124.404	1121.521	1115.755	1109.989	1109.989	1109.989	1112.872	1107.106	1107.106	1104.223
5.0	1107.106	1104.223	1098.457	1092.690	1089.807	1089.807	1089.807	1086.924	1084.041	1086.924
7.5	1135.937	1130.171	1124.404	1115.755	1107.106	1104.223	1104.223	1098.457	1089.807	1086.924
10.0	1118.638	1112.872	1104.223	1092.690	1089.807	1095.573	1101.340	1104.223	1104.223	1107.106
12.5	1135.937	1127.287	1112.872	1107.106	1104.223	1112.872	1112.872	1109.989	1101.340	1104.223
15.0	1138.820	1133.054	1121.521	1124.404	1130.171	1138.820	1138.820	1138.820	1127.287	1124.404
17.5	1170.534	1164.768	1150.352	1153.235	1153.235	1159.001	1161.885	1164.768	1159.001	1164.768
20.0	1199.365	1187.832	1176.300	1179.183	1184.949	1187.832	1202.248	1202.248	1202.248	1205.131
22.5	1242.611	1233.962	1225.312	1225.312	1213.780	1222.429	1225.312	1239.728	1245.494	1242.611
25.0	1285.857	1277.208	1274.325	1271.442	1259.910	1265.676	1262.793	1271.442	1277.208	1282.974
27.5	1355.051	1349.285	1337.753	1326.221	1311.805	1306.039	1300.273	1320.454	1326.221	1314.688
30.0	1412.713	1406.947	1401.181	1389.648	1380.999	1360.818	1355.051	1363.701	1357.935	1360.818
32.5	1481.907	1484.790	1481.907	1464.609	1438.661	1424.246	1409.830	1412.713	1404.064	1398.298
35.0	1568.400	1568.400	1562.634	1545.335	1510.738	1496.323	1481.907	1467.492	1467.492	1455.959
37.5	1657.776	1646.243	1634.711	1623.179	1591.465	1571.283	1545.335	1545.335	1522.271	1519.387
40.0	1738.502	1732.736	1715.437	1712.554	1669.308	1654.893	1634.711	1620.296	1597.231	1594.348
42.5	1793.281	1796.164	1781.748	1793.281	1761.567	1752.918	1726.970	1703.905	1686.607	1666.425
45.0	1853.826	1862.475	1848.059	1862.475	1845.176	1848.059	1822.112	1796.164	1767.333	1764.450
47.5	1911.487	1920.137	1917.254	1923.020	1911.487	1914.371	1885.540	1876.890	1848.059	1850.943
50.0	1925.903	1940.318	1946.084	1943.201	1948.968	1948.968	1946.084	1928.786	1928.786	1908.604
52.5	1899.955	1917.254	1923.020	1928.786	1963.383	1963.383	1969.149	1957.617	1960.500	1960.500
55.0	1862.475	1876.890	1882.657	1902.838	1951.851	1951.851	1966.266	1977.798	1986.448	1995.097
57.5	1790.398	1804.813	1827.878	1868.241	1899.955	1911.487	1954.734	1969.149	1992.214	1995.097
60.0	1712.554	1724.087	1747.151	1790.398	1819.229	1862.475	1905.721	1940.318	1963.383	1974.915
62.5	1594.348	1620.296	1640.477	1680.840	1732.736	1775.982	1816.346	1856.709	1905.721	1917.254
65.0	1467.492	1487.673	1510.738	1556.868	1602.997	1649.126	1692.373	1735.619	1796.164	1819.229
67.5	1320.454	1326.221	1355.051	1395.415	1430.012	1473.258	1519.387	1571.283	1637.594	1663.542
70.0	1133.054	1133.054	1159.001	1196.482	1222.429	1265.676	1314.688	1366.584	1424.246	1464.609
72.5	922.588	922.588	945.653	983.133	1009.081	1046.561	1107.106	1135.937	1193.598	1231.079
75.0	715.006	715.006	740.954	778.434	804.382	833.212	890.874	925.471	965.835	991.782
77.5	527.605	527.605	550.670	585.267	608.332	634.279	680.409	709.240	735.187	761.135
80.0	363.269	360.386	380.568	406.515	423.814	449.762	487.242	501.657	518.956	539.137
82.5	221.998	219.115	236.413	247.946	268.127	279.660	305.607	314.257	325.789	337.321
85.0	106.674	103.791	115.324	118.207	132.622	135.505	152.804	161.453	161.453	167.219
87.5	28.831	28.831	31.714	31.714	37.480	34.597	43.246	46.129	46.129	49.012
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>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340
2.5	1104.223	1104.223	1107.106	1109.989	1109.989	1107.106	1104.223	1101.340	1101.340	1098.457
5.0	1089.807	1092.690	1095.573	1101.340	1107.106	1107.106	1107.106	1104.223	1098.457	1092.690
7.5	1086.924	1086.924	1086.924	1089.807	1098.457	1104.223	1107.106	1107.106	1104.223	1098.457
10.0	1104.223	1098.457	1095.573	1086.924	1084.041	1089.807	1098.457	1101.340	1098.457	1089.807
12.5	1112.872	1112.872	1112.872	1101.340	1089.807	1092.690	1095.573	1107.106	1107.106	1101.340
15.0	1124.404	1127.287	1130.171	1141.703	1133.054	1127.287	1118.638	1127.287	1124.404	1112.872
17.5	1167.651	1161.885	1159.001	1156.118	1156.118	1144.586	1135.937	1138.820	1138.820	1130.171
20.0	1202.248	1199.365	1193.598	1179.183	1170.534	1170.534	1159.001	1159.001	1167.651	1161.885
22.5	1233.962	1225.312	1225.312	1222.429	1210.897	1210.897	1196.482	1190.715	1199.365	1196.482
25.0	1274.325	1271.442	1265.676	1265.676	1251.260	1245.494	1239.728	1231.079	1239.728	1242.611
27.5	1317.571	1314.688	1308.922	1297.390	1294.507	1288.740	1285.857	1291.623	1294.507	1294.507

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CANDELA TABULATION - (Cont.)

30.0	1357.935	1352.168	1343.519	1343.519	1337.753	1343.519	1343.519	1357.935	1360.818	1360.818
32.5	1389.648	1386.765	1386.765	1398.298	1404.064	1392.532	1401.181	1412.713	1412.713	1418.479
35.0	1453.076	1450.193	1444.427	1455.959	1453.076	1464.609	1476.141	1484.790	1484.790	1504.972
37.5	1513.621	1513.621	1513.621	1522.271	1522.271	1545.335	1556.868	1553.984	1562.634	1571.283
40.0	1588.582	1591.465	1594.348	1600.114	1600.114	1623.179	1637.594	1640.477	1654.893	1657.776
42.5	1680.840	1683.723	1680.840	1686.607	1689.490	1718.321	1721.204	1726.970	1726.970	1729.853
45.0	1761.567	1764.450	1761.567	1764.450	1778.865	1799.047	1799.047	1793.281	1793.281	1790.398
47.5	1842.293	1839.410	1836.527	1845.176	1848.059	1856.709	1850.943	1848.059	1836.527	1839.410
50.0	1911.487	1908.604	1908.604	1911.487	1908.604	1917.254	1905.721	1885.540	1871.124	1874.007
52.5	1957.617	1960.500	1960.500	1948.968	1946.084	1940.318	1920.137	1905.721	1882.657	1876.890
55.0	1989.331	1997.980	1995.097	1977.798	1960.500	1946.084	1914.371	1899.955	1871.124	1862.475
57.5	2003.746	2009.512	2003.746	1974.915	1951.851	1928.786	1891.306	1856.709	1830.761	1816.346
60.0	1986.448	1986.448	1983.565	1940.318	1920.137	1888.423	1839.410	1804.813	1755.801	1747.151
62.5	1940.318	1937.435	1928.786	1902.838	1856.709	1827.878	1773.099	1726.970	1680.840	1669.308
65.0	1842.293	1842.293	1836.527	1819.229	1761.567	1729.853	1683.723	1628.945	1585.698	1559.751
67.5	1683.723	1689.490	1692.373	1666.425	1628.945	1588.582	1542.452	1490.557	1458.843	1427.129
70.0	1484.790	1490.557	1493.440	1473.258	1441.544	1418.479	1366.584	1320.454	1285.857	1251.260
72.5	1257.026	1259.910	1259.910	1245.494	1219.546	1199.365	1159.001	1112.872	1075.392	1043.678
75.0	1009.081	1009.081	1020.613	1003.315	991.782	960.068	937.004	876.459	838.979	810.148
77.5	766.901	781.317	781.317	761.135	749.603	726.538	700.590	648.695	616.981	605.449
80.0	542.021	556.436	542.021	536.254	527.605	504.540	487.242	449.762	426.697	420.931
82.5	340.204	351.737	343.087	337.321	340.204	317.140	308.490	282.543	271.010	268.127
85.0	170.102	178.751	181.635	170.102	175.868	161.453	161.453	147.037	141.271	141.271
87.5	49.012	54.779	57.662	51.896	57.662	51.896	54.779	49.012	51.896	51.896
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>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340
2.5	1095.573	1092.690	1092.690	1092.690	1092.690	1092.690	1092.690	1092.690	1089.807	1089.807
5.0	1089.807	1084.041	1084.041	1084.041	1084.041	1089.807	1098.457	1101.340	1107.106	1109.989
7.5	1095.573	1089.807	1089.807	1092.690	1098.457	1107.106	1112.872	1107.106	1101.340	1098.457
10.0	1084.041	1084.041	1092.690	1101.340	1107.106	1104.223	1101.340	1092.690	1086.924	1086.924
12.5	1092.690	1098.457	1104.223	1104.223	1095.573	1089.807	1089.807	1086.924	1098.457	1104.223
15.0	1104.223	1112.872	1118.638	1112.872	1107.106	1101.340	1107.106	1109.989	1109.989	1104.223
17.5	1115.755	1118.638	1124.404	1118.638	1118.638	1130.171	1138.820	1138.820	1135.937	1133.054
20.0	1156.118	1147.469	1147.469	1144.586	1153.235	1150.352	1156.118	1159.001	1167.651	1164.768
22.5	1196.482	1190.715	1179.183	1176.300	1179.183	1179.183	1187.832	1187.832	1187.832	1184.949
25.0	1242.611	1233.962	1219.546	1213.780	1219.546	1219.546	1225.312	1219.546	1219.546	1210.897
27.5	1285.857	1277.208	1271.442	1268.559	1257.026	1262.793	1254.143	1251.260	1254.143	1245.494
30.0	1352.168	1343.519	1340.636	1320.454	1300.273	1300.273	1294.507	1288.740	1285.857	1271.442
32.5	1415.596	1409.830	1404.064	1386.765	1363.701	1346.402	1340.636	1331.987	1329.104	1308.922
35.0	1502.089	1487.673	1476.141	1455.959	1430.012	1404.064	1386.765	1375.233	1366.584	1346.402
37.5	1571.283	1562.634	1548.218	1533.803	1493.440	1464.609	1444.427	1424.246	1409.830	1392.532
40.0	1657.776	1654.893	1637.594	1605.880	1571.283	1545.335	1516.504	1484.790	1458.843	1450.193
42.5	1738.502	1735.619	1718.321	1703.905	1663.542	1626.062	1585.698	1565.517	1533.803	1525.154
45.0	1799.047	1796.164	1793.281	1773.099	1735.619	1709.671	1672.191	1646.243	1605.880	1605.880
47.5	1839.410	1839.410	1850.943	1836.527	1801.930	1775.982	1750.034	1724.087	1706.788	1689.490
50.0	1885.540	1879.773	1885.540	1888.423	1876.890	1842.293	1830.761	1819.229	1784.632	1775.982
52.5	1899.955	1899.955	1920.137	1937.435	1925.903	1908.604	1891.306	1885.540	1865.358	1845.176
55.0	1882.657	1905.721	1937.435	1948.968	1954.734	1951.851	1937.435	1928.786	1905.721	1885.540
57.5	1848.059	1876.890	1914.371	1937.435	1946.084	1957.617	1946.084	1937.435	1923.020	1885.540
60.0	1784.632	1810.579	1859.592	1897.072	1905.721	1925.903	1925.903	1908.604	1885.540	1850.943
62.5	1692.373	1732.736	1778.865	1813.462	1850.943	1853.826	1871.124	1853.826	1827.878	1796.164
65.0	1582.815	1626.062	1669.308	1701.022	1735.619	1752.918	1767.333	1752.918	1718.321	1686.607

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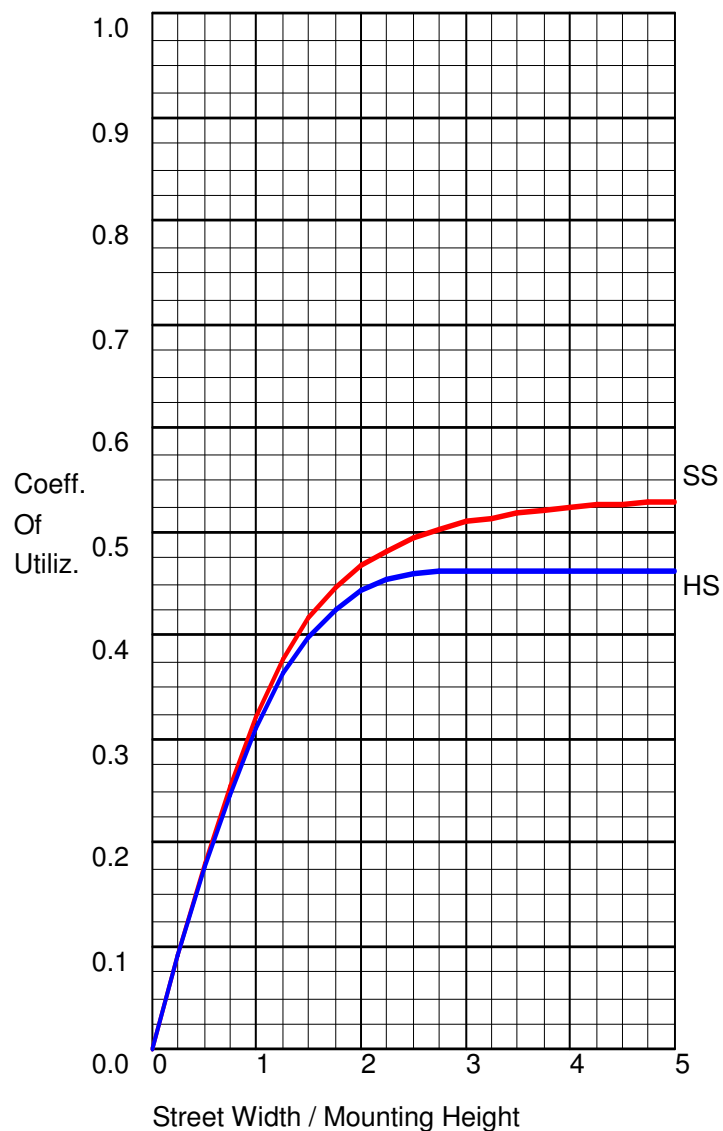
CANDELA TABULATION - (Cont.)

67.5	1447.310	1484.790	1522.271	1551.101	1585.698	1591.465	1597.231	1582.815	1548.218	1499.206
70.0	1271.442	1297.390	1343.519	1366.584	1401.181	1380.999	1389.648	1375.233	1320.454	1202.248
72.5	1063.860	1092.690	1124.404	1138.820	1164.768	1133.054	1127.287	1124.404	974.484	501.657
75.0	824.563	856.277	885.108	905.290	896.640	717.889	665.993	628.513	158.570	14.415
77.5	608.332	631.396	657.344	654.461	495.891	308.490	190.284	17.299	5.766	2.883
80.0	426.697	441.112	455.528	328.672	63.428	17.299	5.766	2.883	2.883	0.000
82.5	271.010	279.660	279.660	123.973	8.649	2.883	2.883	2.883	0.000	0.000
85.0	144.154	144.154	112.440	17.299	2.883	0.000	0.000	0.000	0.000	0.000
87.5	51.896	46.129	8.649	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

Vert. Horizontal Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340	1101.340
2.5	1089.807	1095.573	1098.457	1104.223	1101.340	1098.457	1095.573	1092.690
5.0	1112.872	1115.755	1118.638	1121.521	1118.638	1112.872	1104.223	1104.223
7.5	1095.573	1095.573	1101.340	1101.340	1095.573	1086.924	1081.158	1075.392
10.0	1086.924	1089.807	1098.457	1104.223	1104.223	1095.573	1086.924	1081.158
12.5	1107.106	1104.223	1101.340	1101.340	1104.223	1095.573	1084.041	1078.275
15.0	1109.989	1112.872	1112.872	1112.872	1109.989	1104.223	1095.573	1089.807
17.5	1135.937	1133.054	1127.287	1121.521	1112.872	1112.872	1109.989	1104.223
20.0	1159.001	1150.352	1135.937	1138.820	1130.171	1130.171	1121.521	1118.638
22.5	1182.066	1167.651	1161.885	1164.768	1159.001	1159.001	1150.352	1150.352
25.0	1210.897	1202.248	1190.715	1182.066	1187.832	1193.598	1182.066	1184.949
27.5	1239.728	1228.196	1228.196	1222.429	1222.429	1222.429	1208.014	1213.780
30.0	1274.325	1265.676	1254.143	1248.377	1265.676	1280.091	1265.676	1280.091
32.5	1297.390	1306.039	1294.507	1297.390	1297.390	1311.805	1317.571	1337.753
35.0	1337.753	1340.636	1334.870	1352.168	1360.818	1380.999	1392.532	1398.298
37.5	1383.882	1383.882	1398.298	1409.830	1412.713	1438.661	1455.959	1458.843
40.0	1444.427	1438.661	1467.492	1484.790	1496.323	1516.504	1539.569	1536.686
42.5	1513.621	1507.855	1533.803	1553.984	1574.166	1605.880	1626.062	1626.062
45.0	1597.231	1591.465	1611.646	1643.360	1649.126	1669.308	1695.256	1703.905
47.5	1686.607	1675.074	1695.256	1718.321	1726.970	1738.502	1764.450	1770.216
50.0	1773.099	1758.684	1767.333	1787.515	1796.164	1804.813	1813.462	1816.346
52.5	1836.527	1819.229	1810.579	1816.346	1819.229	1816.346	1813.462	1813.462
55.0	1850.943	1822.112	1801.930	1796.164	1790.398	1781.748	1767.333	1764.450
57.5	1827.878	1804.813	1770.216	1747.151	1729.853	1712.554	1695.256	1695.256
60.0	1793.281	1752.918	1718.321	1689.490	1652.009	1626.062	1591.465	1600.114
62.5	1735.619	1683.723	1634.711	1591.465	1536.686	1496.323	1453.076	1453.076
65.0	1623.179	1551.101	1473.258	1395.415	1277.208	1199.365	1092.690	1089.807
67.5	1412.713	1265.676	1046.561	789.966	487.242	345.971	172.985	172.985
70.0	913.939	510.307	121.090	25.948	14.415	11.532	11.532	11.532
72.5	72.077	17.299	8.649	8.649	5.766	5.766	5.766	5.766
75.0	8.649	5.766	2.883	2.883	2.883	2.883	2.883	2.883
77.5	2.883	2.883	2.883	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	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	0.000
85.0	0.000	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	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

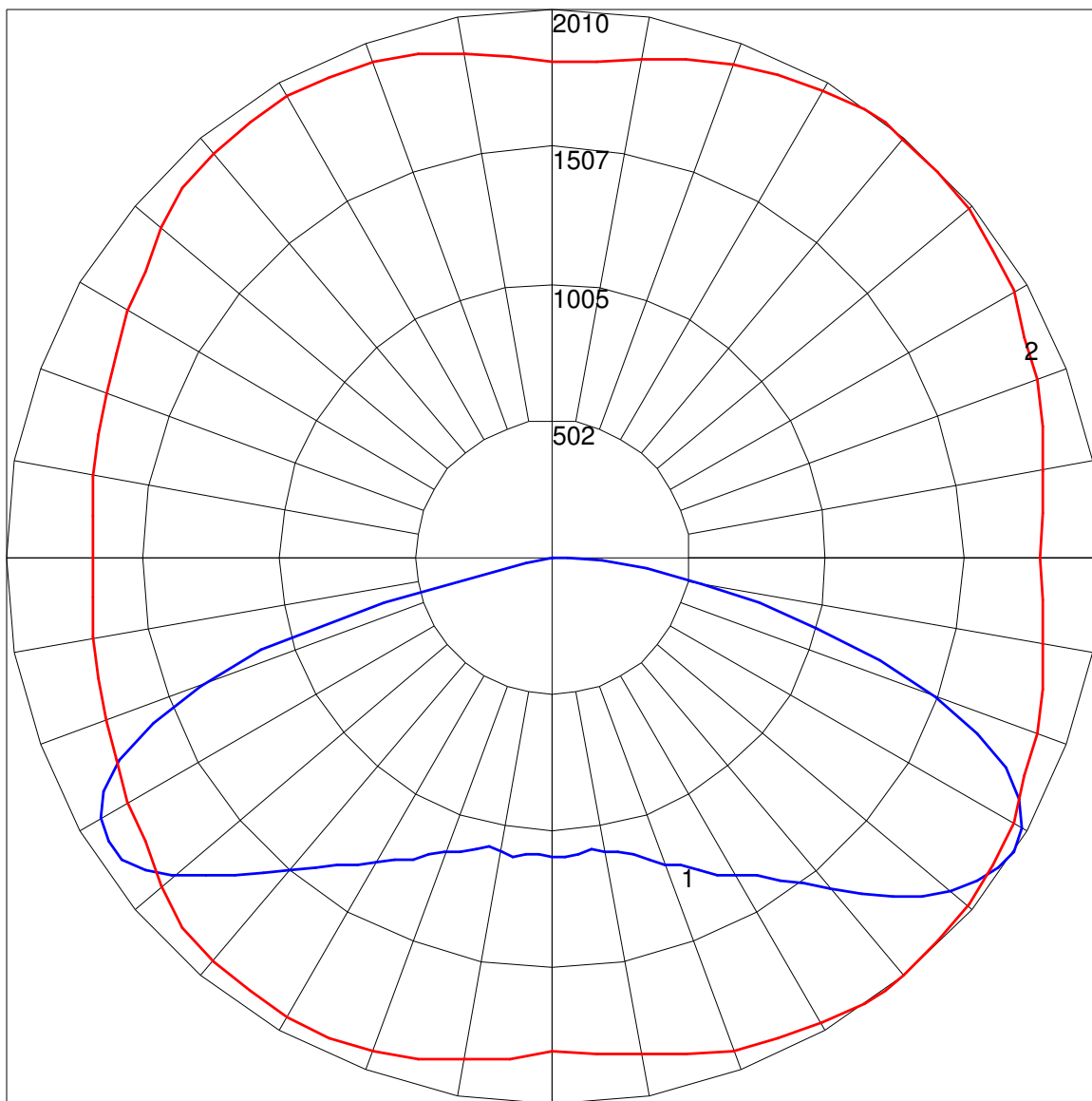
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

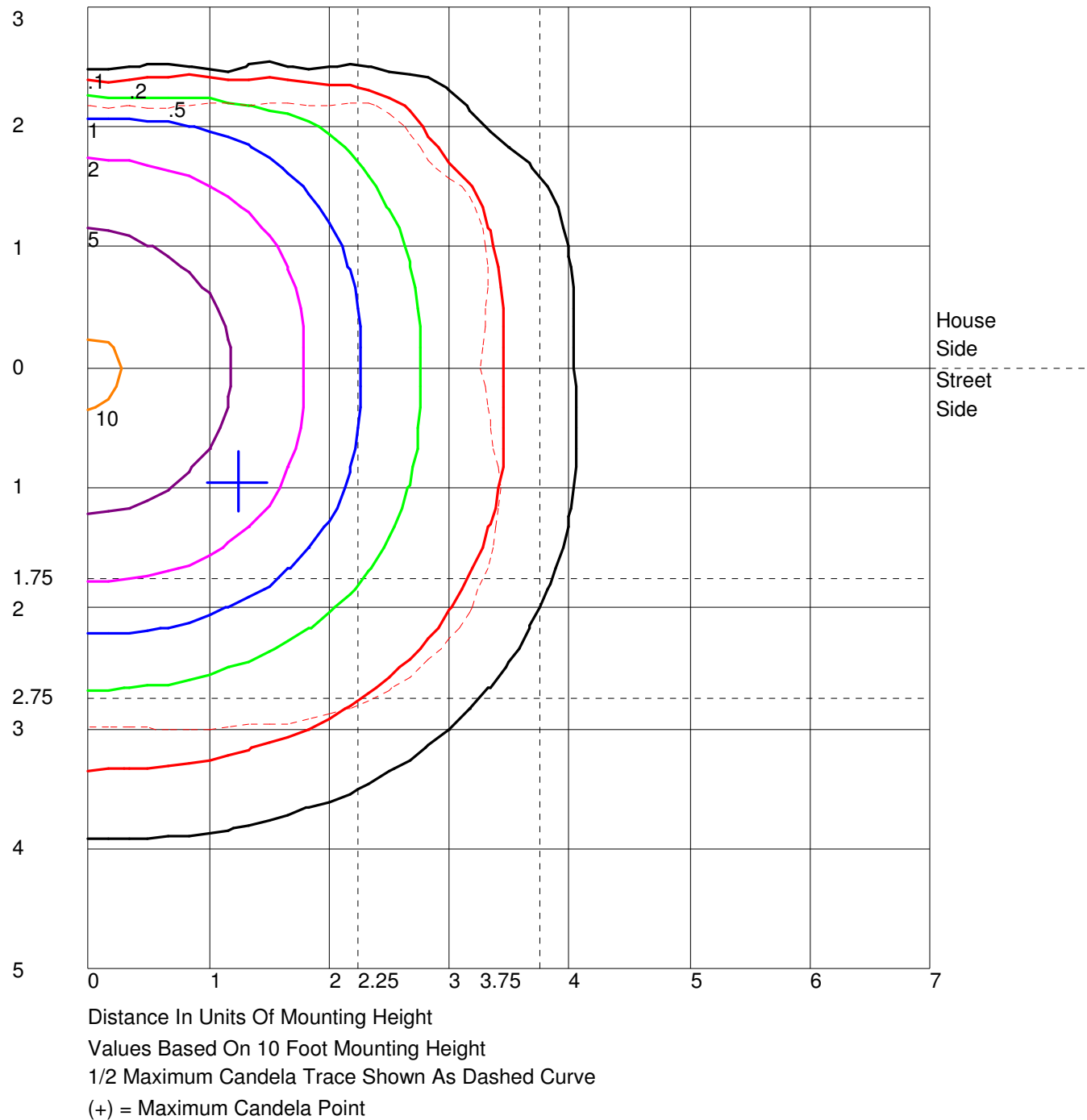
	Lumens	Percent Of Luminaire
Downward Street Side	3925.6	53.8
Downward House Side	3376.7	46.2
Downward Total	7302.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7302.3	100.0

POLAR GRAPH

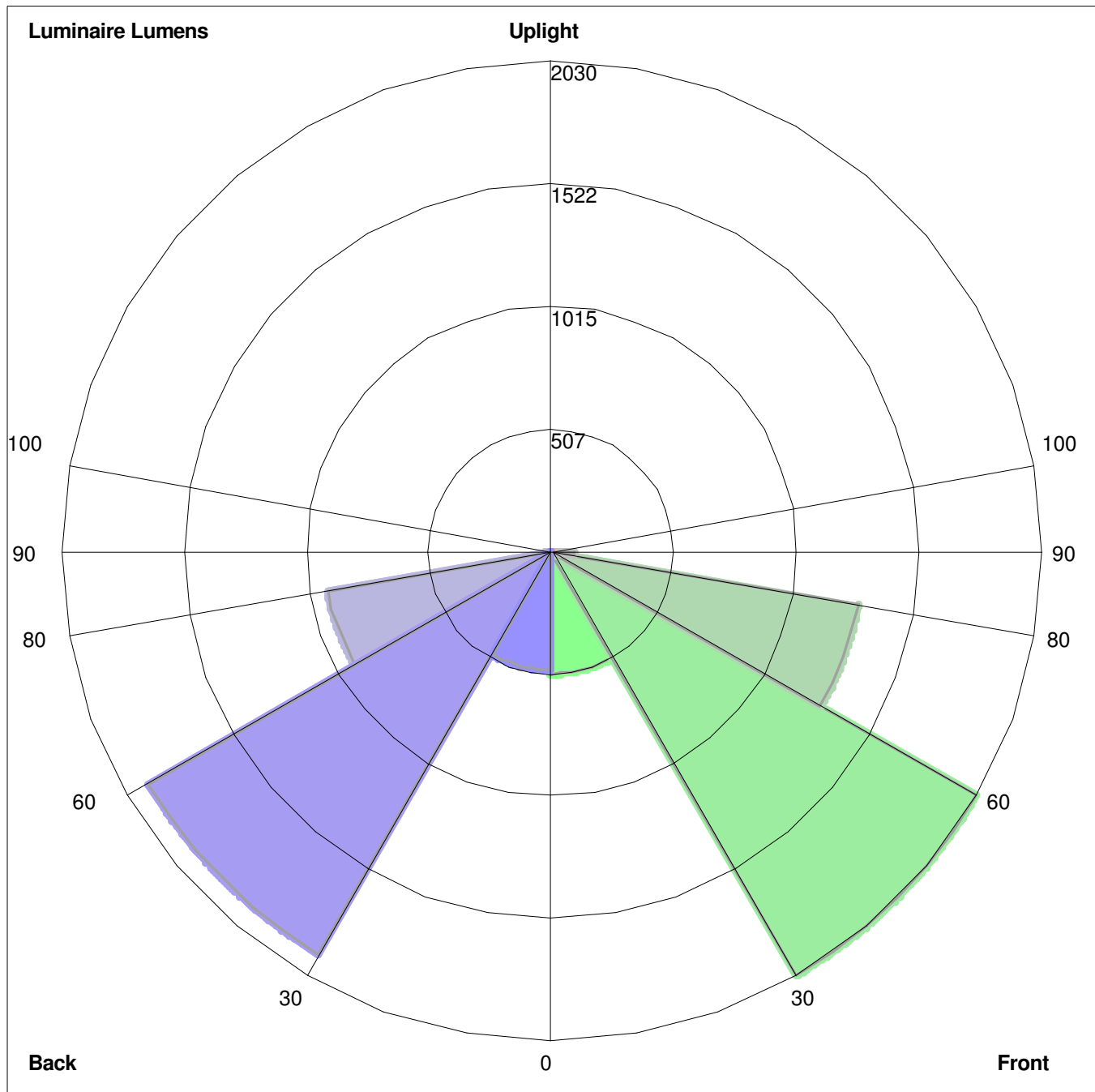


Maximum Candela = 2009.512 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=508.3, Medium=2029.5, High=1289.2, Very High=98.6
Back: Low=492.3, Medium=1923.4, High=940.6, Very High=20.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2