



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-850-T3-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009419
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2024-01-31
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPX-L60-850-T3-XXX-SDGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] WITH TYPE III DISTRIBUTION AND
[MORE] MICRO-PRISMATIC GLASS LENS
[LAMPCAT] X4-LUXEON M
[LAMP] 8 WHITE LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5960
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2512.963
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	2512.963
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	566.485 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L60-850-T3-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	854.0	N.A.	14.3
FM - Front-Medium (30-60)	2257.8	N.A.	37.9
FH - Front-High (60-80)	931.1	N.A.	15.6
FVH - Front-Very High (80-90)	71.7	N.A.	1.2
BL - Back-Low (0-30)	540.2	N.A.	9.1
BM - Back-Medium (30-60)	956.0	N.A.	16.0
BH - Back-High (60-80)	331.6	N.A.	5.6
BVH - Back-Very High (80-90)	17.8	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	5960.2	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</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>
0.0	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877
2.5	1690.168	1693.882	1690.168	1701.312	1699.454	1697.597	1693.882	1686.453	1682.738	1680.881
5.0	1760.746	1760.746	1760.746	1768.175	1766.318	1762.603	1757.031	1749.602	1742.173	1736.601
7.5	1790.463	1790.463	1790.463	1796.035	1792.321	1786.749	1781.177	1781.177	1781.177	1779.319
10.0	1851.755	1851.755	1849.898	1849.898	1842.468	1836.896	1831.324	1829.467	1823.895	1820.180
12.5	1927.905	1931.620	1926.048	1924.191	1916.761	1914.904	1907.475	1901.903	1892.616	1883.330
15.0	1998.484	2002.198	1996.627	1989.197	1981.768	1978.053	1972.481	1976.196	1972.481	1955.765
17.5	2057.918	2061.633	2056.061	2044.917	2030.058	2020.772	2018.914	2026.344	2024.486	2017.057
20.0	2173.073	2171.215	2160.071	2145.213	2128.497	2104.351	2085.778	2074.634	2063.490	2056.061
22.5	2295.656	2295.656	2282.655	2262.224	2238.079	2215.791	2193.503	2154.499	2122.925	2096.922
25.0	2390.380	2392.237	2377.379	2355.091	2329.088	2297.513	2271.511	2234.364	2202.790	2152.642
27.5	2470.245	2470.245	2457.244	2429.384	2394.094	2368.092	2334.660	2297.513	2258.510	2230.650
30.0	2512.963	2509.249	2494.390	2477.674	2442.385	2416.382	2377.379	2347.661	2319.801	2280.798
32.5	2492.533	2492.533	2481.389	2466.530	2453.529	2434.956	2408.953	2384.808	2360.663	2319.801
35.0	2427.526	2423.812	2412.668	2408.953	2407.096	2408.953	2401.524	2403.381	2381.093	2349.519
37.5	2323.516	2317.944	2308.657	2314.229	2319.801	2332.803	2358.805	2377.379	2384.808	2360.663
40.0	2139.641	2137.783	2143.355	2154.499	2182.359	2219.506	2280.798	2336.517	2371.807	2368.092
42.5	1909.332	1916.761	1920.476	1940.907	2002.198	2056.061	2163.786	2267.796	2329.088	2347.661
45.0	1660.450	1675.309	1688.310	1723.599	1786.749	1864.756	2004.056	2152.642	2258.510	2312.372
47.5	1448.715	1456.144	1471.003	1510.007	1575.013	1671.594	1823.895	2000.341	2145.213	2247.366
50.0	1274.126	1281.556	1285.270	1324.274	1394.853	1495.148	1654.878	1831.324	2002.198	2147.070
52.5	1105.110	1112.539	1116.254	1158.972	1227.693	1331.703	1493.291	1673.452	1851.755	2013.342
55.0	958.381	969.525	973.239	1010.386	1079.107	1177.545	1344.705	1528.580	1695.740	1853.612
57.5	830.225	837.654	841.369	872.944	936.093	1038.246	1190.547	1372.565	1532.295	1682.738
60.0	713.214	715.071	716.928	746.645	804.223	900.804	1045.675	1210.977	1357.706	1495.148
62.5	599.917	599.917	605.489	635.206	681.639	783.792	908.233	1053.104	1184.975	1318.702
65.0	492.192	492.192	497.764	533.053	575.771	668.638	778.220	900.804	1015.958	1138.541
67.5	401.183	399.325	403.040	436.472	479.190	559.055	653.779	767.076	865.514	969.525
70.0	321.318	319.460	325.032	351.035	384.467	456.902	540.482	629.634	722.500	809.795
72.5	254.454	252.596	256.311	278.599	310.174	365.893	434.615	516.337	588.773	659.351
75.0	196.877	195.019	196.877	215.450	239.595	284.171	343.605	403.040	462.474	520.052
77.5	144.872	143.014	144.872	159.730	176.446	211.735	258.168	300.887	345.463	395.611
80.0	100.296	98.438	100.296	109.582	122.584	146.729	180.161	211.735	243.310	278.599
82.5	61.292	61.292	61.292	68.721	76.150	91.009	111.440	133.728	152.301	174.589
85.0	31.575	29.717	29.717	33.432	39.004	46.433	57.577	66.864	78.008	89.152
87.5	9.287	9.287	9.287	11.144	11.144	13.001	16.716	20.431	24.145	27.860
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>45.0</u>	<u>50.0</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	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877
2.5	1682.738	1677.166	1667.880	1662.308	1662.308	1660.450	1653.021	1649.306	1643.734	1638.162
5.0	1734.743	1725.457	1712.455	1701.312	1695.740	1692.025	1679.024	1669.737	1660.450	1649.306
7.5	1781.177	1775.605	1768.175	1755.174	1747.745	1740.315	1725.457	1710.598	1697.597	1679.024
10.0	1816.466	1816.466	1810.894	1805.322	1799.750	1790.463	1777.462	1760.746	1738.458	1716.170
12.5	1877.758	1874.043	1868.471	1861.042	1849.898	1840.611	1823.895	1805.322	1775.605	1747.745
15.0	1940.907	1931.620	1918.619	1903.760	1890.759	1879.615	1862.899	1842.468	1809.036	1773.747
17.5	2000.341	1985.483	1970.624	1948.336	1933.477	1920.476	1901.903	1879.615	1836.896	1794.178
20.0	2043.060	2028.201	2024.486	2007.770	1979.911	1955.765	1931.620	1903.760	1855.470	1807.179
22.5	2072.777	2065.348	2061.633	2041.202	2007.770	1983.625	1961.337	1929.763	1887.044	1825.752
25.0	2115.495	2089.493	2082.064	2070.920	2043.060	2013.342	1987.340	1952.051	1909.332	1848.040
27.5	2182.359	2122.925	2109.923	2091.350	2069.062	2031.916	2004.056	1968.767	1918.619	1851.755

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CANDELA TABULATION - (Cont.)

30.0	2238.079	2180.502	2135.926	2113.638	2095.065	2065.348	2022.629	1985.483	1927.905	1851.755
32.5	2280.798	2228.792	2178.645	2135.926	2117.353	2087.636	2050.489	2005.913	1937.192	1857.327
35.0	2306.800	2262.224	2206.504	2169.358	2148.927	2121.067	2070.920	2017.057	1952.051	1866.614
37.5	2323.516	2275.226	2234.364	2193.503	2171.215	2147.070	2102.494	2041.202	1966.909	1868.471
40.0	2330.945	2286.370	2245.508	2213.934	2193.503	2167.501	2121.067	2046.774	1963.195	1861.042
42.5	2332.803	2286.370	2239.936	2219.506	2186.074	2171.215	2137.783	2065.348	1978.053	1868.471
45.0	2314.229	2273.368	2228.792	2200.932	2191.646	2182.359	2154.499	2083.921	1991.055	1868.471
47.5	2273.368	2245.508	2197.218	2178.645	2186.074	2184.217	2158.214	2093.208	1992.912	1864.756
50.0	2204.647	2195.360	2160.071	2158.214	2167.501	2178.645	2173.073	2111.781	2000.341	1864.756
52.5	2106.209	2126.639	2124.782	2126.639	2147.070	2161.929	2167.501	2108.066	1994.769	1849.898
55.0	1968.767	2031.916	2072.777	2096.922	2113.638	2139.641	2147.070	2100.637	1992.912	1833.182
57.5	1807.179	1914.904	1983.625	2022.629	2052.346	2080.206	2095.065	2052.346	1948.336	1790.463
60.0	1630.733	1768.175	1859.184	1916.761	1959.480	2000.341	2018.914	1979.911	1879.615	1732.886
62.5	1454.287	1606.588	1719.885	1797.893	1864.756	1905.617	1931.620	1900.046	1805.322	1658.593
65.0	1272.269	1433.856	1554.583	1651.164	1738.458	1784.891	1831.324	1807.179	1719.885	1565.727
67.5	1101.395	1246.266	1378.137	1480.290	1586.157	1643.734	1688.310	1679.024	1593.587	1456.144
70.0	928.663	1051.247	1177.545	1292.700	1404.139	1463.574	1515.579	1500.720	1426.427	1300.129
72.5	757.789	863.657	982.526	1095.823	1197.976	1257.410	1300.129	1275.984	1209.120	1106.967
75.0	598.059	687.211	802.365	891.517	978.811	1025.244	1056.819	1030.816	969.525	885.945
77.5	451.330	521.909	616.633	689.068	757.789	811.935	806.080	776.363	726.215	663.066
80.0	319.460	369.608	442.044	492.192	542.339	551.626	566.485	544.197	507.050	466.189
82.5	200.591	239.595	284.171	315.746	347.320	369.608	364.036	345.463	330.604	299.030
85.0	102.153	124.441	146.729	163.445	182.018	195.019	191.305	180.161	178.303	159.730
87.5	31.575	39.004	48.291	52.005	59.434	66.864	65.006	59.434	61.292	55.720
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	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877
2.5	1632.590	1627.018	1623.304	1615.874	1610.302	1606.588	1606.588	1604.731	1601.016	1599.159
5.0	1638.162	1627.018	1615.874	1601.016	1589.872	1580.585	1575.013	1571.299	1562.012	1554.583
7.5	1662.308	1643.734	1623.304	1606.588	1588.015	1575.013	1563.869	1547.153	1532.295	1519.293
10.0	1693.882	1667.880	1641.877	1619.589	1593.587	1571.299	1550.868	1524.865	1502.578	1478.432
12.5	1718.027	1688.310	1660.450	1628.876	1599.159	1569.441	1537.867	1498.863	1465.431	1431.999
15.0	1734.743	1697.597	1658.593	1627.018	1593.587	1554.583	1510.007	1465.431	1426.427	1381.851
17.5	1747.745	1703.169	1658.593	1612.160	1567.584	1521.151	1469.146	1420.855	1368.850	1313.130
20.0	1751.459	1706.883	1658.593	1601.016	1547.153	1491.434	1426.427	1355.849	1288.985	1214.692
22.5	1760.746	1706.883	1651.164	1586.157	1521.151	1450.572	1368.850	1279.698	1186.832	1095.823
25.0	1777.462	1714.313	1643.734	1571.299	1489.576	1400.425	1296.414	1186.832	1079.107	975.097
27.5	1781.177	1710.598	1628.876	1547.153	1454.287	1340.990	1216.549	1092.108	976.954	871.086
30.0	1773.747	1701.312	1610.302	1510.007	1405.997	1275.984	1134.827	995.527	880.373	789.364
32.5	1775.605	1686.453	1593.587	1485.862	1353.991	1201.691	1047.532	908.233	804.223	733.644
35.0	1770.033	1673.452	1571.299	1445.000	1298.272	1129.255	963.953	830.225	739.216	687.211
37.5	1766.318	1664.165	1543.439	1400.425	1231.408	1051.247	878.516	754.075	685.354	650.064
40.0	1755.174	1643.734	1510.007	1352.134	1170.116	967.667	798.651	681.639	627.777	609.203
42.5	1753.317	1625.161	1482.147	1298.272	1097.680	885.945	720.643	618.490	577.629	570.199
45.0	1740.315	1606.588	1445.000	1240.694	1019.673	798.651	648.207	559.055	527.481	531.196
47.5	1718.027	1576.871	1404.139	1188.689	950.951	726.215	579.486	505.193	482.905	492.192
50.0	1710.598	1558.297	1368.850	1138.541	885.945	663.066	523.766	458.760	440.186	451.330
52.5	1690.168	1528.580	1327.989	1090.251	830.225	607.346	473.618	408.612	391.896	408.612
55.0	1667.880	1491.434	1285.270	1038.246	780.077	560.913	429.043	367.751	354.749	364.036
57.5	1617.732	1437.571	1231.408	978.811	722.500	512.622	388.181	330.604	315.746	315.746
60.0	1558.297	1370.707	1158.972	911.948	663.066	466.189	349.177	297.172	276.742	271.170
62.5	1485.862	1298.272	1086.536	843.226	603.631	423.471	315.746	263.740	241.453	234.023
65.0	1407.854	1216.549	1006.671	770.791	547.911	384.467	280.456	232.166	209.878	200.591

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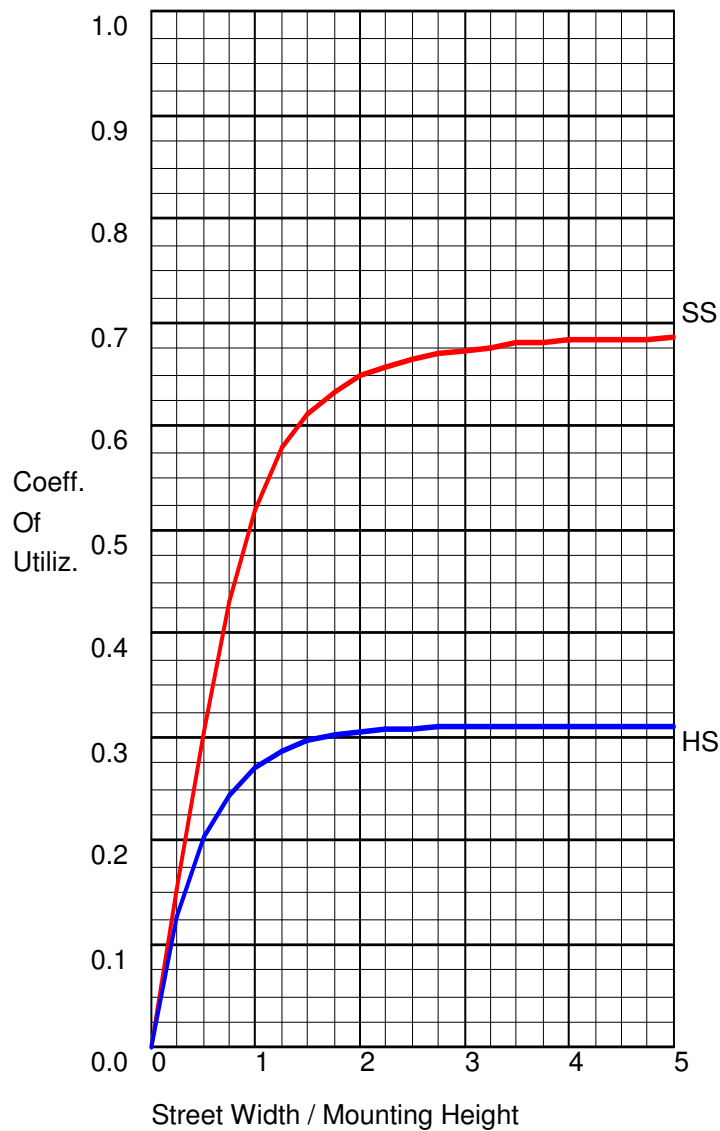
CANDELA TABULATION - (Cont.)

67.5	1296.414	1118.111	917.520	698.355	488.477	339.891	245.167	200.591	178.303	165.302
70.0	1155.257	993.670	815.367	611.061	425.328	291.600	208.021	167.159	141.157	118.869
72.5	980.669	845.084	692.783	518.194	356.607	239.595	163.445	124.441	94.724	65.006
75.0	787.507	677.924	559.055	417.899	282.314	174.589	100.296	72.436	33.432	13.001
77.5	586.915	520.052	429.043	315.746	195.019	78.008	39.004	13.001	3.715	1.857
80.0	414.184	369.608	304.602	196.877	42.719	14.859	5.572	1.857	1.857	0.000
82.5	267.455	237.738	195.019	83.580	13.001	3.715	1.857	1.857	0.000	0.000
85.0	143.014	128.156	94.724	18.573	3.715	1.857	1.857	1.857	0.000	0.000
87.5	53.862	44.576	13.001	1.857	1.857	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	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877	1641.877
2.5	1597.301	1599.159	1595.444	1597.301	1601.016	1597.301	1591.729	1586.157
5.0	1550.868	1547.153	1539.724	1541.581	1545.296	1539.724	1537.867	1532.295
7.5	1508.150	1498.863	1484.004	1480.290	1480.290	1478.432	1474.718	1476.575
10.0	1458.002	1443.143	1422.712	1404.139	1396.710	1391.138	1385.566	1389.281
12.5	1402.282	1378.137	1346.562	1322.417	1307.558	1290.842	1292.700	1296.414
15.0	1331.703	1290.842	1249.981	1209.120	1188.689	1166.401	1168.259	1171.973
17.5	1244.409	1183.117	1131.112	1077.250	1043.818	1012.243	1008.529	1012.243
20.0	1132.969	1056.819	986.241	932.378	893.374	859.942	848.798	848.798
22.5	999.242	924.949	863.657	807.937	776.363	754.075	739.216	735.501
25.0	876.658	815.367	765.219	729.930	707.642	696.498	689.068	687.211
27.5	791.221	746.645	713.214	690.926	677.924	674.210	674.210	672.352
30.0	737.359	705.784	685.354	674.210	676.067	677.924	683.496	679.782
32.5	696.498	681.639	676.067	681.639	692.783	700.212	707.642	707.642
35.0	663.066	664.923	672.352	687.211	700.212	715.071	728.072	729.930
37.5	640.778	650.064	664.923	681.639	696.498	711.356	724.358	726.215
40.0	614.775	627.777	648.207	668.638	687.211	705.784	720.643	720.643
42.5	581.343	601.774	633.349	659.351	683.496	702.070	715.071	718.786
45.0	553.483	581.343	614.775	635.206	657.494	677.924	690.926	696.498
47.5	521.909	547.911	573.914	596.202	609.203	627.777	633.349	637.063
50.0	482.905	501.478	518.194	533.053	536.767	551.626	553.483	553.483
52.5	429.043	443.901	455.045	458.760	460.617	466.189	468.046	464.332
55.0	375.180	384.467	388.181	388.181	386.324	391.896	395.611	388.181
57.5	317.603	321.318	325.032	325.032	326.890	328.747	330.604	328.747
60.0	273.027	271.170	276.742	276.742	278.599	280.456	278.599	278.599
62.5	232.166	232.166	232.166	230.309	226.594	226.594	226.594	226.594
65.0	196.877	191.305	180.161	170.874	169.017	161.587	161.587	161.587
67.5	152.301	137.442	118.869	102.153	81.722	48.291	39.004	37.147
70.0	96.581	68.721	33.432	20.431	14.859	9.287	9.287	9.287
72.5	29.717	13.001	7.429	5.572	3.715	3.715	3.715	3.715
75.0	5.572	3.715	1.857	1.857	1.857	1.857	1.857	1.857
77.5	1.857	1.857	0.000	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

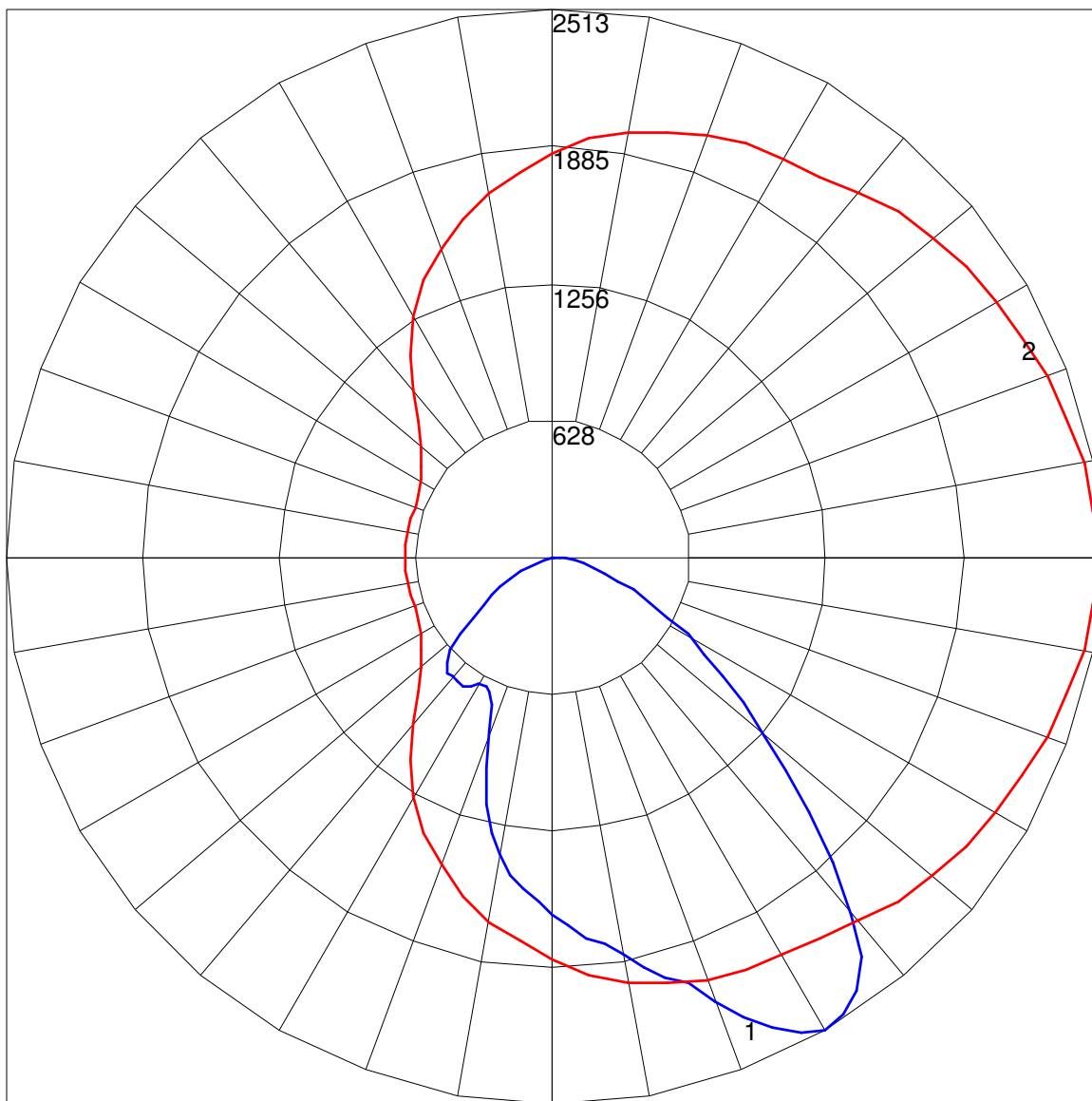
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

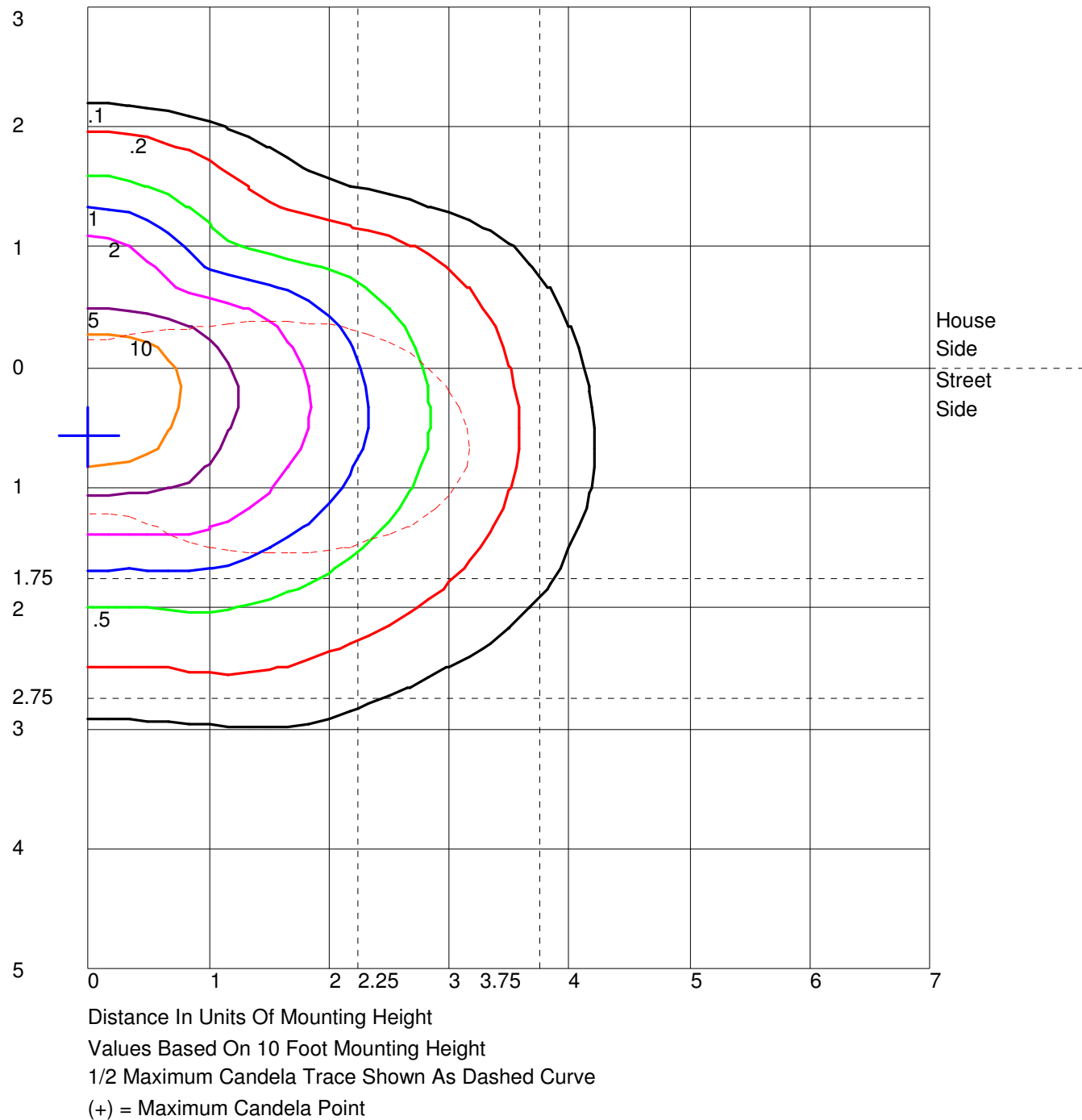
	Lumens	Percent Of Luminaire
Downward Street Side	4114.6	69.0
Downward House Side	1845.7	31.0
Downward Total	5960.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5960.3	100.0

POLAR GRAPH

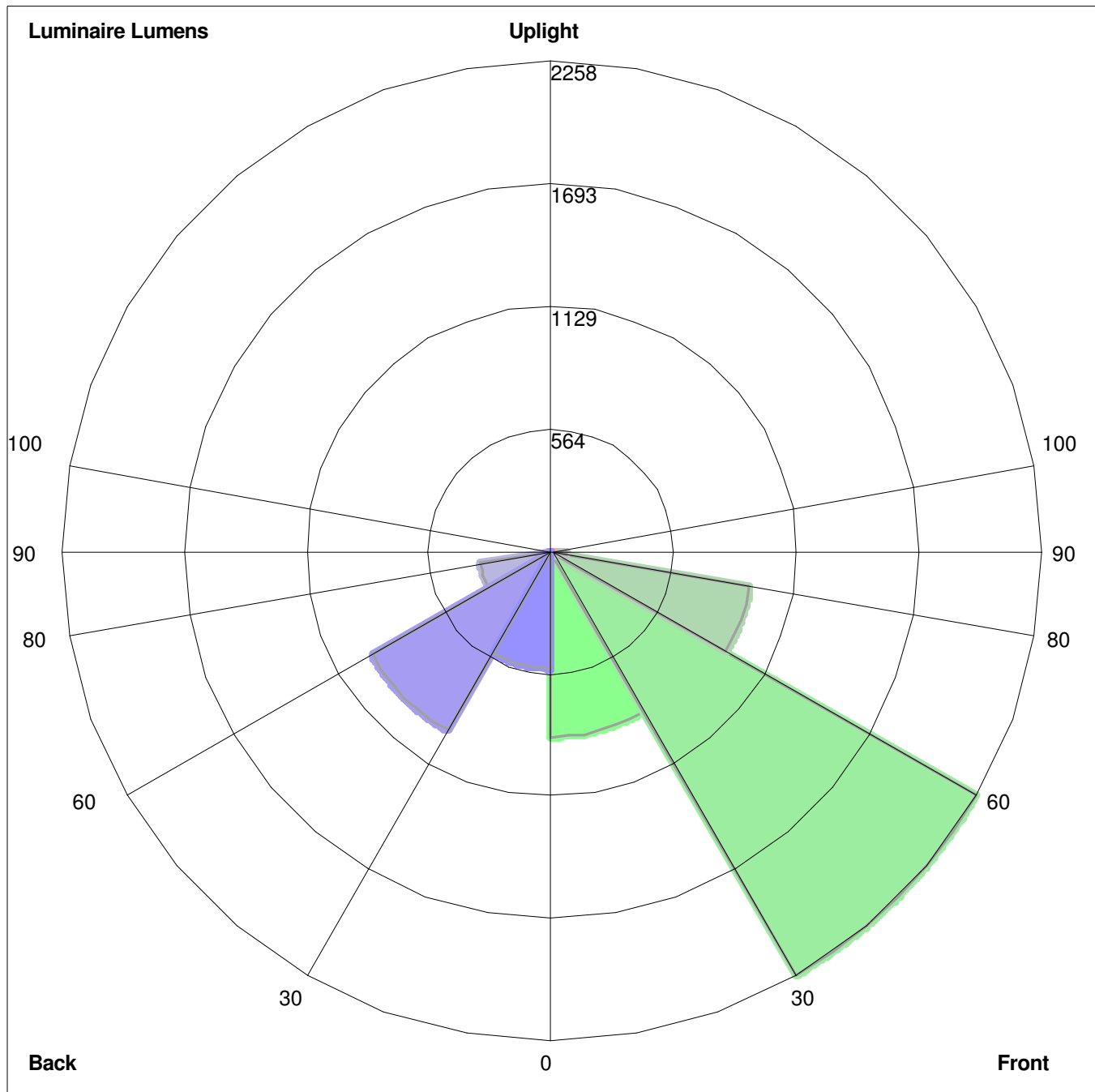


Maximum Candela = 2512.963 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=854.0, Medium=2257.8, High=931.1, Very High=71.7
Back: Low=540.2, Medium=956.0, High=331.6, Very High=17.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1