



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-830-T3-XXX-SDGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009419  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2024-01-31  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPX-L85-830-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	7546
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3181.421
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	3181.421
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	717.172 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-830-T3-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1081.1	N.A.	14.3
FM - Front-Medium (30-60)	2858.4	N.A.	37.9
FH - Front-High (60-80)	1178.8	N.A.	15.6
FVH - Front-Very High (80-90)	90.8	N.A.	1.2
BL - Back-Low (0-30)	683.9	N.A.	9.1
BM - Back-Medium (30-60)	1210.3	N.A.	16.0
BH - Back-High (60-80)	419.8	N.A.	5.6
BVH - Back-Very High (80-90)	22.6	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	7545.7	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623
2.5	2139.759	2144.461	2139.759	2153.867	2151.515	2149.164	2144.461	2135.056	2130.353	2128.002
5.0	2229.111	2229.111	2229.111	2238.517	2236.165	2231.462	2224.408	2215.003	2205.597	2198.543
7.5	2266.733	2266.733	2266.733	2273.787	2269.085	2262.030	2254.976	2254.976	2254.976	2252.625
10.0	2344.329	2344.329	2341.977	2341.977	2332.572	2325.518	2318.464	2316.112	2309.058	2304.355
12.5	2440.736	2445.438	2438.384	2436.033	2426.627	2424.276	2414.870	2407.816	2396.059	2384.302
15.0	2530.088	2534.791	2527.737	2518.331	2508.926	2504.223	2497.169	2501.871	2497.169	2476.006
17.5	2605.332	2610.035	2602.981	2588.873	2570.062	2558.305	2555.953	2565.359	2563.007	2553.602
20.0	2751.118	2748.767	2734.658	2715.847	2694.685	2664.117	2640.603	2626.495	2612.386	2602.981
22.5	2906.309	2906.309	2889.850	2863.984	2833.416	2805.200	2776.983	2727.604	2687.631	2654.711
25.0	3026.230	3028.581	3009.770	2981.554	2948.634	2908.661	2875.741	2828.714	2788.740	2725.253
27.5	3127.339	3127.339	3110.880	3075.609	3030.933	2998.013	2955.688	2908.661	2859.282	2824.011
30.0	3181.421	3176.718	3157.907	3136.745	3092.069	3059.149	3009.770	2972.148	2936.877	2887.498
32.5	3155.556	3155.556	3141.448	3122.637	3106.177	3082.663	3049.744	3019.176	2988.608	2936.877
35.0	3073.258	3068.555	3054.446	3049.744	3047.392	3049.744	3040.338	3042.690	3014.473	2974.499
37.5	2941.580	2934.526	2922.769	2929.823	2936.877	2953.337	2986.256	3009.770	3019.176	2988.608
40.0	2708.793	2706.442	2713.496	2727.604	2762.875	2809.903	2887.498	2958.040	3002.716	2998.013
42.5	2417.222	2426.627	2431.330	2457.195	2534.791	2602.981	2739.361	2871.039	2948.634	2972.148
45.0	2102.136	2120.947	2137.407	2182.083	2262.030	2360.789	2537.142	2725.253	2859.282	2927.472
47.5	1834.079	1843.484	1862.295	1911.674	1993.973	2116.245	2309.058	2532.439	2715.847	2845.173
50.0	1613.049	1622.454	1627.157	1676.536	1765.889	1892.863	2095.082	2318.464	2534.791	2718.199
52.5	1399.073	1408.478	1413.181	1467.263	1554.264	1685.942	1890.512	2118.596	2344.329	2548.899
55.0	1213.314	1227.422	1232.125	1279.152	1366.154	1490.777	1702.401	1935.188	2146.813	2346.680
57.5	1051.068	1060.474	1065.176	1105.150	1185.097	1314.423	1507.236	1737.672	1939.891	2130.353
60.0	902.931	905.282	907.634	945.256	1018.149	1140.421	1323.829	1533.102	1718.861	1892.863
62.5	759.497	759.497	766.551	804.173	862.958	992.284	1149.826	1333.234	1500.182	1669.482
65.0	623.116	623.116	630.171	674.847	728.929	846.498	985.229	1140.421	1286.206	1441.398
67.5	507.899	505.547	510.250	552.575	606.657	707.766	827.687	971.121	1095.744	1227.422
70.0	406.789	404.438	411.492	444.411	486.736	578.440	684.252	797.119	914.688	1025.203
72.5	322.139	319.788	324.491	352.707	392.681	463.222	550.224	653.684	745.388	834.741
75.0	249.247	246.895	249.247	272.760	303.328	359.762	435.006	510.250	585.494	658.387
77.5	183.408	181.056	183.408	202.219	223.381	268.058	326.842	380.924	437.357	500.845
80.0	126.975	124.623	126.975	138.732	155.191	185.759	228.084	268.058	308.031	352.707
82.5	77.596	77.596	77.596	87.001	96.407	115.218	141.083	169.300	192.813	221.030
85.0	39.974	37.622	37.622	42.325	49.379	58.785	72.893	84.650	98.758	112.866
87.5	11.757	11.757	11.757	14.108	14.108	16.460	21.162	25.865	30.568	35.271
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623
2.5	2130.353	2123.299	2111.542	2104.488	2104.488	2102.136	2092.731	2088.028	2080.974	2073.920
5.0	2196.192	2184.435	2167.975	2153.867	2146.813	2142.110	2125.650	2113.893	2102.136	2088.028
7.5	2254.976	2247.922	2238.517	2222.057	2212.651	2203.246	2184.435	2165.624	2149.164	2125.650
10.0	2299.653	2299.653	2292.598	2285.544	2278.490	2266.733	2250.274	2229.111	2200.894	2172.678
12.5	2377.248	2372.545	2365.491	2356.086	2341.977	2330.221	2309.058	2285.544	2247.922	2212.651
15.0	2457.195	2445.438	2428.979	2410.168	2393.708	2379.600	2358.437	2332.572	2290.247	2245.571
17.5	2532.439	2513.628	2494.817	2466.601	2447.790	2431.330	2407.816	2379.600	2325.518	2271.436
20.0	2586.521	2567.710	2563.007	2541.845	2506.574	2476.006	2445.438	2410.168	2349.032	2287.896
22.5	2624.143	2614.738	2610.035	2584.170	2541.845	2511.277	2483.060	2443.087	2389.005	2311.409
25.0	2678.225	2645.306	2635.900	2621.792	2586.521	2548.899	2515.980	2471.304	2417.222	2339.626
27.5	2762.875	2687.631	2671.171	2647.657	2619.441	2572.413	2537.142	2492.466	2428.979	2344.329

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## CANDELA TABULATION - (Cont.)

30.0	2833.416	2760.524	2704.090	2675.874	2652.360	2614.738	2560.656	2513.628	2440.736	2344.329
32.5	2887.498	2821.660	2758.172	2704.090	2680.577	2642.954	2595.927	2539.494	2452.492	2351.383
35.0	2920.418	2863.984	2793.443	2746.415	2720.550	2685.279	2621.792	2553.602	2471.304	2363.140
37.5	2941.580	2880.444	2828.714	2776.983	2748.767	2718.199	2661.766	2584.170	2490.115	2365.491
40.0	2950.986	2894.552	2842.822	2802.849	2776.983	2744.064	2685.279	2591.224	2485.412	2356.086
42.5	2953.337	2894.552	2835.768	2809.903	2767.578	2748.767	2706.442	2614.738	2504.223	2365.491
45.0	2929.823	2878.093	2821.660	2786.389	2774.632	2762.875	2727.604	2638.252	2520.683	2365.491
47.5	2878.093	2842.822	2781.686	2758.172	2767.578	2765.226	2732.307	2650.009	2523.034	2360.789
50.0	2791.092	2779.335	2734.658	2732.307	2744.064	2758.172	2751.118	2673.522	2532.439	2360.789
52.5	2666.468	2692.334	2689.982	2692.334	2718.199	2737.010	2744.064	2668.820	2525.385	2341.977
55.0	2492.466	2572.413	2624.143	2654.711	2675.874	2708.793	2718.199	2659.414	2523.034	2320.815
57.5	2287.896	2424.276	2511.277	2560.656	2598.278	2633.549	2652.360	2598.278	2466.601	2266.733
60.0	2064.514	2238.517	2353.734	2426.627	2480.709	2532.439	2555.953	2506.574	2379.600	2193.840
62.5	1841.133	2033.946	2177.381	2276.139	2360.789	2412.519	2445.438	2405.465	2285.544	2099.785
65.0	1610.697	1815.268	1968.108	2090.379	2200.894	2259.679	2318.464	2287.896	2177.381	1982.216
67.5	1394.370	1577.778	1744.726	1874.052	2008.081	2080.974	2137.407	2125.650	2017.487	1843.484
70.0	1175.691	1330.883	1490.777	1636.563	1777.646	1852.890	1918.729	1899.917	1805.862	1645.968
72.5	959.364	1093.393	1243.882	1387.316	1516.642	1591.886	1645.968	1615.400	1530.750	1401.424
75.0	757.145	870.012	1015.797	1128.664	1239.179	1297.963	1337.937	1305.018	1227.422	1121.610
77.5	571.386	660.739	780.659	872.363	959.364	989.932	1020.500	982.878	919.391	839.444
80.0	404.438	467.925	559.629	623.116	686.604	698.361	717.172	688.955	641.928	590.197
82.5	253.949	303.328	359.762	399.735	439.709	467.925	460.871	437.357	418.546	378.573
85.0	129.326	157.543	185.759	206.922	230.436	246.895	242.192	228.084	225.733	202.219
87.5	39.974	49.379	61.136	65.839	75.244	84.650	82.298	75.244	77.596	70.541
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	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623
2.5	2066.866	2059.811	2055.109	2045.703	2038.649	2033.946	2033.946	2031.595	2026.892	2024.541
5.0	2073.920	2059.811	2045.703	2026.892	2012.784	2001.027	1993.973	1989.270	1977.513	1968.108
7.5	2104.488	2080.974	2055.109	2033.946	2010.432	1993.973	1979.864	1958.702	1939.891	1923.431
10.0	2144.461	2111.542	2078.623	2050.406	2017.487	1989.270	1963.405	1930.485	1902.269	1871.701
12.5	2175.029	2137.407	2102.136	2062.163	2024.541	1986.919	1946.945	1897.566	1855.241	1812.916
15.0	2196.192	2149.164	2099.785	2059.811	2017.487	1968.108	1911.674	1855.241	1805.862	1749.429
17.5	2212.651	2156.218	2099.785	2041.000	1984.567	1925.783	1859.944	1798.808	1732.969	1662.428
20.0	2217.354	2160.921	2099.785	2026.892	1958.702	1888.161	1805.862	1716.510	1631.860	1537.804
22.5	2229.111	2160.921	2090.379	2008.081	1925.783	1836.430	1732.969	1620.103	1502.534	1387.316
25.0	2250.274	2170.326	2080.974	1989.270	1885.809	1772.943	1641.265	1502.534	1366.154	1234.476
27.5	2254.976	2165.624	2062.163	1958.702	1841.133	1697.699	1540.156	1382.613	1236.827	1102.799
30.0	2245.571	2153.867	2038.649	1911.674	1779.997	1615.400	1436.695	1260.341	1114.556	999.338
32.5	2247.922	2135.056	2017.487	1881.106	1714.158	1521.345	1326.180	1149.826	1018.149	928.796
35.0	2240.868	2118.596	1989.270	1829.376	1643.617	1429.641	1220.368	1051.068	935.850	870.012
37.5	2236.165	2106.839	1953.999	1772.943	1558.967	1330.883	1112.204	954.661	867.660	822.984
40.0	2222.057	2080.974	1911.674	1711.807	1481.371	1225.071	1011.095	862.958	794.767	771.254
42.5	2219.706	2057.460	1876.404	1643.617	1389.667	1121.610	912.337	783.011	731.280	721.875
45.0	2203.246	2033.946	1829.376	1570.724	1290.909	1011.095	820.633	707.766	667.793	672.496
47.5	2175.029	1996.324	1777.646	1504.885	1203.908	919.391	733.631	639.576	611.360	623.116
50.0	2165.624	1972.810	1732.969	1441.398	1121.610	839.444	663.090	580.792	557.278	571.386
52.5	2139.759	1935.188	1681.239	1380.262	1051.068	768.902	599.603	517.304	496.142	517.304
55.0	2111.542	1888.161	1627.157	1314.423	987.581	710.118	543.169	465.574	449.114	460.871
57.5	2048.055	1819.970	1558.967	1239.179	914.688	648.982	491.439	418.546	399.735	399.735
60.0	1972.810	1735.321	1467.263	1154.529	839.444	590.197	442.060	376.221	350.356	343.302
62.5	1881.106	1643.617	1375.559	1067.528	764.199	536.115	399.735	333.896	305.680	296.274
65.0	1782.348	1540.156	1274.450	975.824	693.658	486.736	355.059	293.923	265.706	253.949

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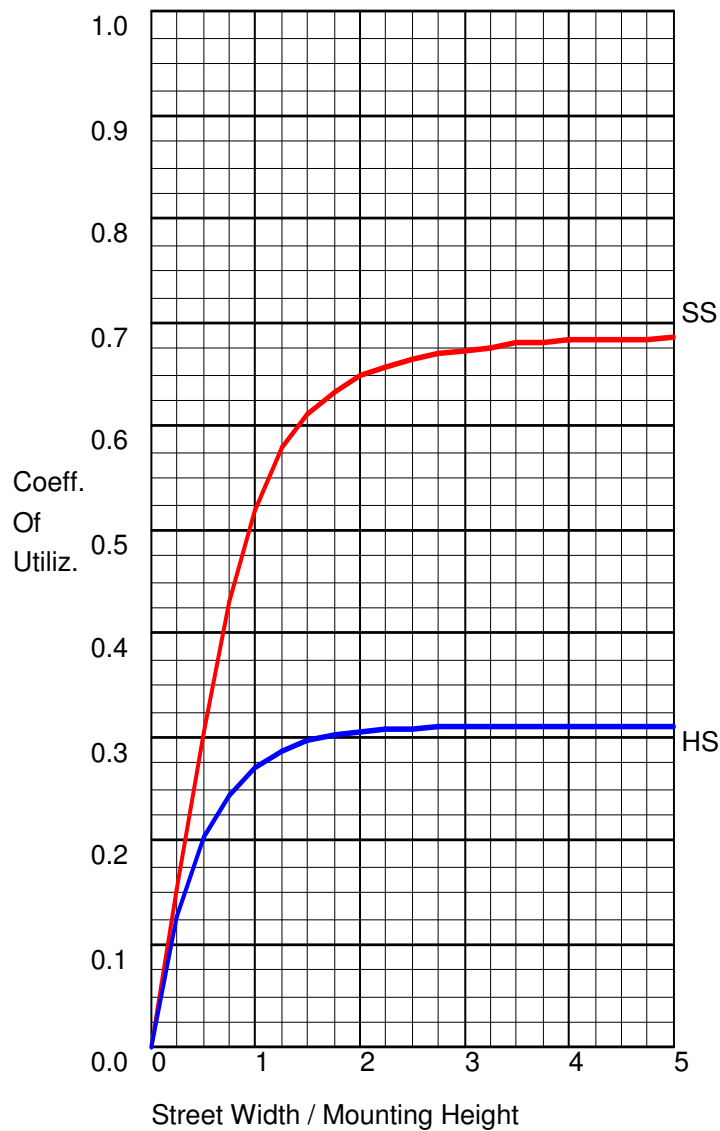
## CANDELA TABULATION - (Cont.)

67.5	1641.265	1415.533	1161.583	884.120	618.414	430.303	310.383	253.949	225.733	209.273
70.0	1462.560	1257.990	1032.257	773.605	538.467	369.167	263.355	211.624	178.705	150.489
72.5	1241.530	1069.879	877.066	656.036	451.466	303.328	206.922	157.543	119.921	82.298
75.0	996.986	858.255	707.766	529.061	357.410	221.030	126.975	91.704	42.325	16.460
77.5	743.037	658.387	543.169	399.735	246.895	98.758	49.379	16.460	4.703	2.351
80.0	524.358	467.925	385.627	249.247	54.082	18.811	7.054	2.351	2.351	0.000
82.5	338.599	300.977	246.895	105.812	16.460	4.703	2.351	2.351	0.000	0.000
85.0	181.056	162.245	119.921	23.514	4.703	2.351	2.351	2.351	0.000	0.000
87.5	68.190	56.433	16.460	2.351	2.351	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	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623	2078.623
2.5	2022.189	2024.541	2019.838	2022.189	2026.892	2022.189	2015.135	2008.081
5.0	1963.405	1958.702	1949.296	1951.648	1956.351	1949.296	1946.945	1939.891
7.5	1909.323	1897.566	1878.755	1874.052	1874.052	1871.701	1866.998	1869.349
10.0	1845.836	1827.025	1801.159	1777.646	1768.240	1761.186	1754.132	1758.834
12.5	1775.294	1744.726	1704.753	1674.185	1655.374	1634.211	1636.563	1641.265
15.0	1685.942	1634.211	1582.481	1530.750	1504.885	1476.669	1479.020	1483.723
17.5	1575.427	1497.831	1431.992	1363.802	1321.477	1281.504	1276.801	1281.504
20.0	1434.344	1337.937	1248.584	1180.394	1131.015	1088.690	1074.582	1074.582
22.5	1265.044	1170.989	1093.393	1022.852	982.878	954.661	935.850	931.148
25.0	1109.853	1032.257	968.770	924.094	895.877	881.769	872.363	870.012
27.5	1001.689	945.256	902.931	874.714	858.255	853.552	853.552	851.201
30.0	933.499	893.526	867.660	853.552	855.903	858.255	865.309	860.606
32.5	881.769	862.958	855.903	862.958	877.066	886.471	895.877	895.877
35.0	839.444	841.795	851.201	870.012	886.471	905.282	921.742	924.094
37.5	811.227	822.984	841.795	862.958	881.769	900.580	917.039	919.391
40.0	778.308	794.767	820.633	846.498	870.012	893.526	912.337	912.337
42.5	735.983	761.848	801.822	834.741	865.309	888.823	905.282	909.985
45.0	700.712	735.983	778.308	804.173	832.390	858.255	874.714	881.769
47.5	660.739	693.658	726.577	754.794	771.254	794.767	801.822	806.524
50.0	611.360	634.873	656.036	674.847	679.550	698.361	700.712	700.712
52.5	543.169	561.981	576.089	580.792	583.143	590.197	592.549	587.846
55.0	474.979	486.736	491.439	491.439	489.088	496.142	500.845	491.439
57.5	402.086	406.789	411.492	411.492	413.843	416.195	418.546	416.195
60.0	345.653	343.302	350.356	350.356	352.707	355.059	352.707	352.707
62.5	293.923	293.923	293.923	291.571	286.869	286.869	286.869	286.869
65.0	249.247	242.192	228.084	216.327	213.976	204.570	204.570	204.570
67.5	192.813	174.002	150.489	129.326	103.461	61.136	49.379	47.028
70.0	122.272	87.001	42.325	25.865	18.811	11.757	11.757	11.757
72.5	37.622	16.460	9.406	7.054	4.703	4.703	4.703	4.703
75.0	7.054	4.703	2.351	2.351	2.351	2.351	2.351	2.351
77.5	2.351	2.351	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

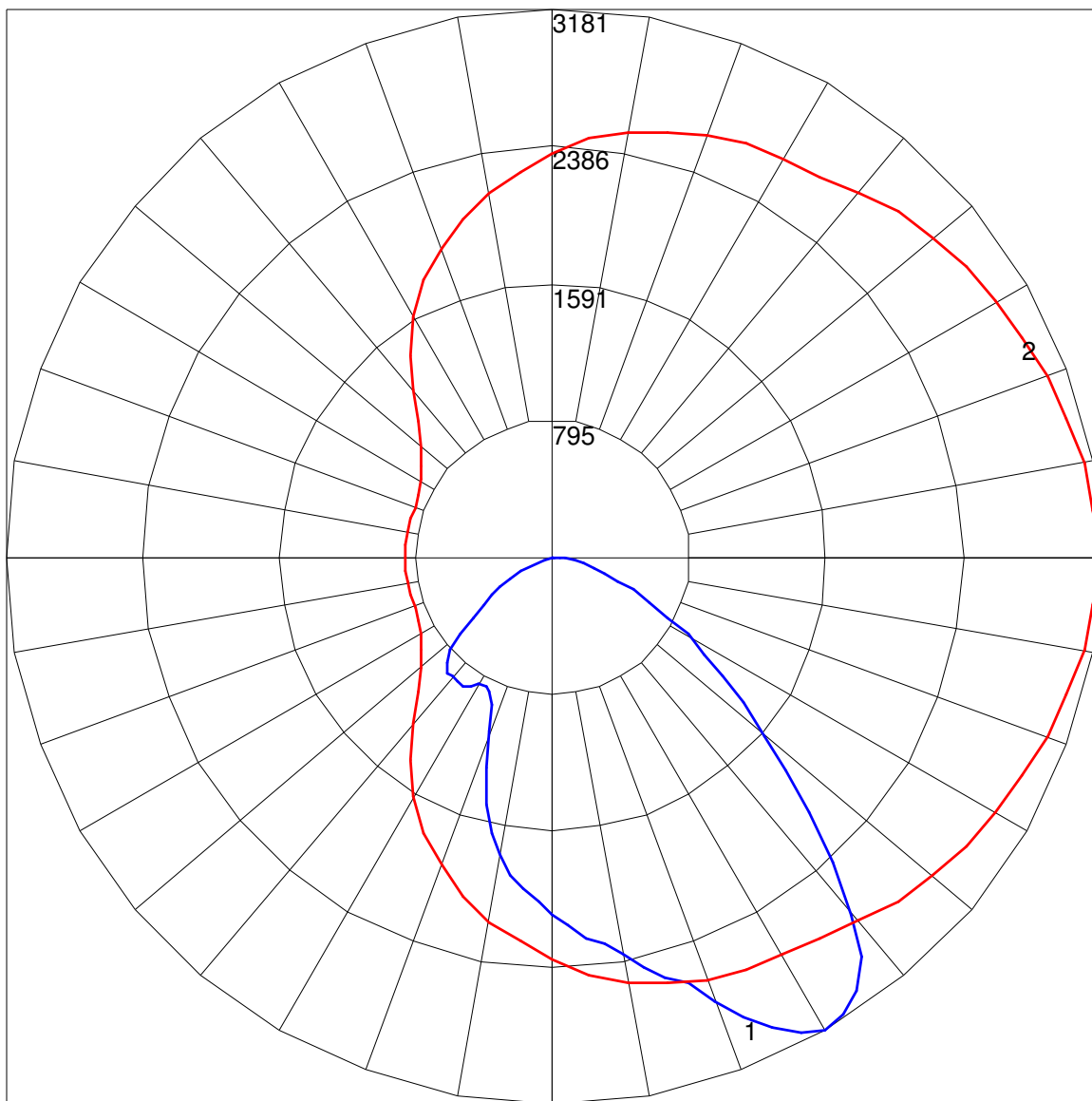
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

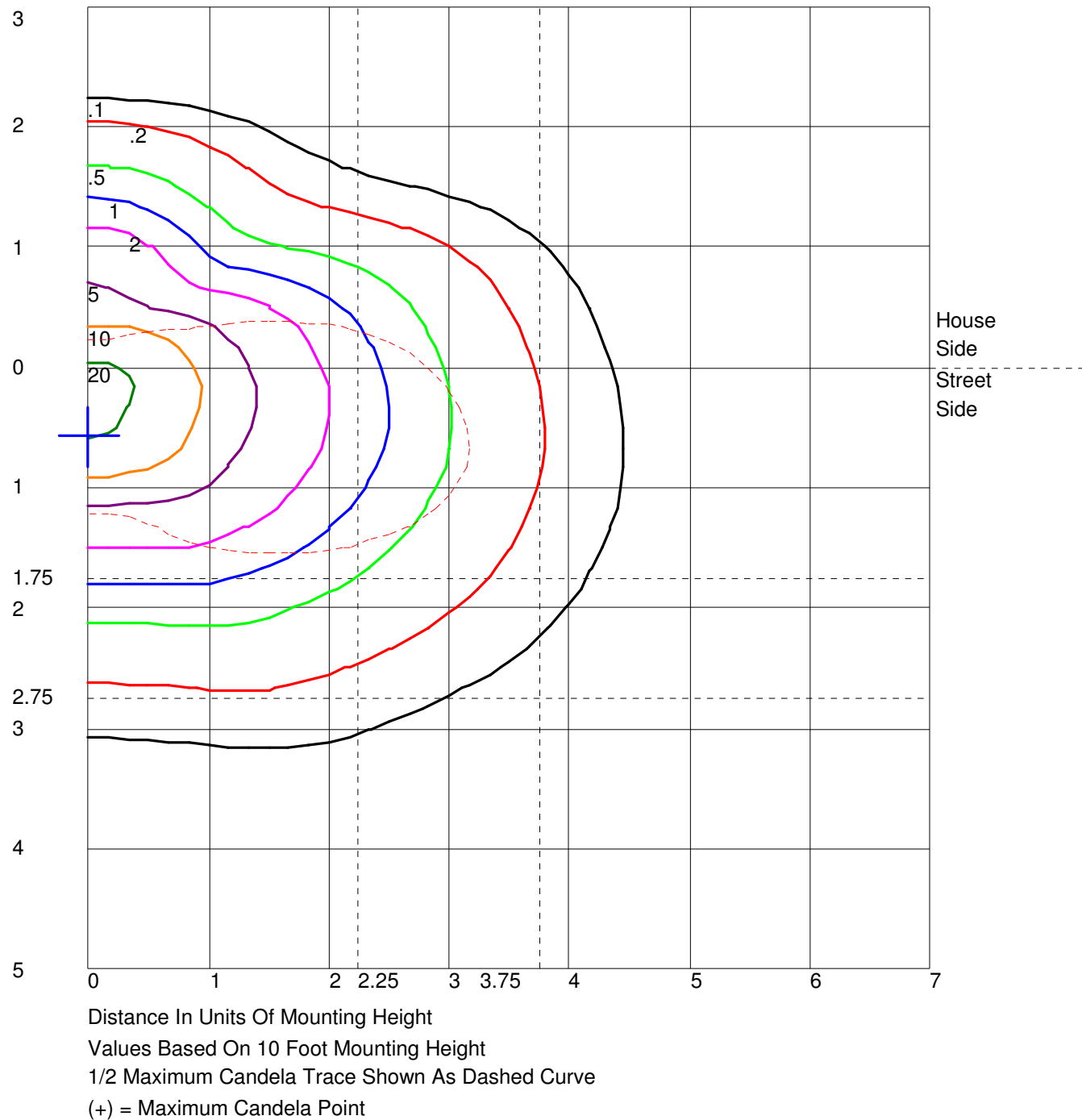
	Lumens	Percent Of Luminaire
Downward Street Side	5209.1	69.0
Downward House Side	2336.7	31.0
Downward Total	7545.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7545.8	100.0

POLAR GRAPH



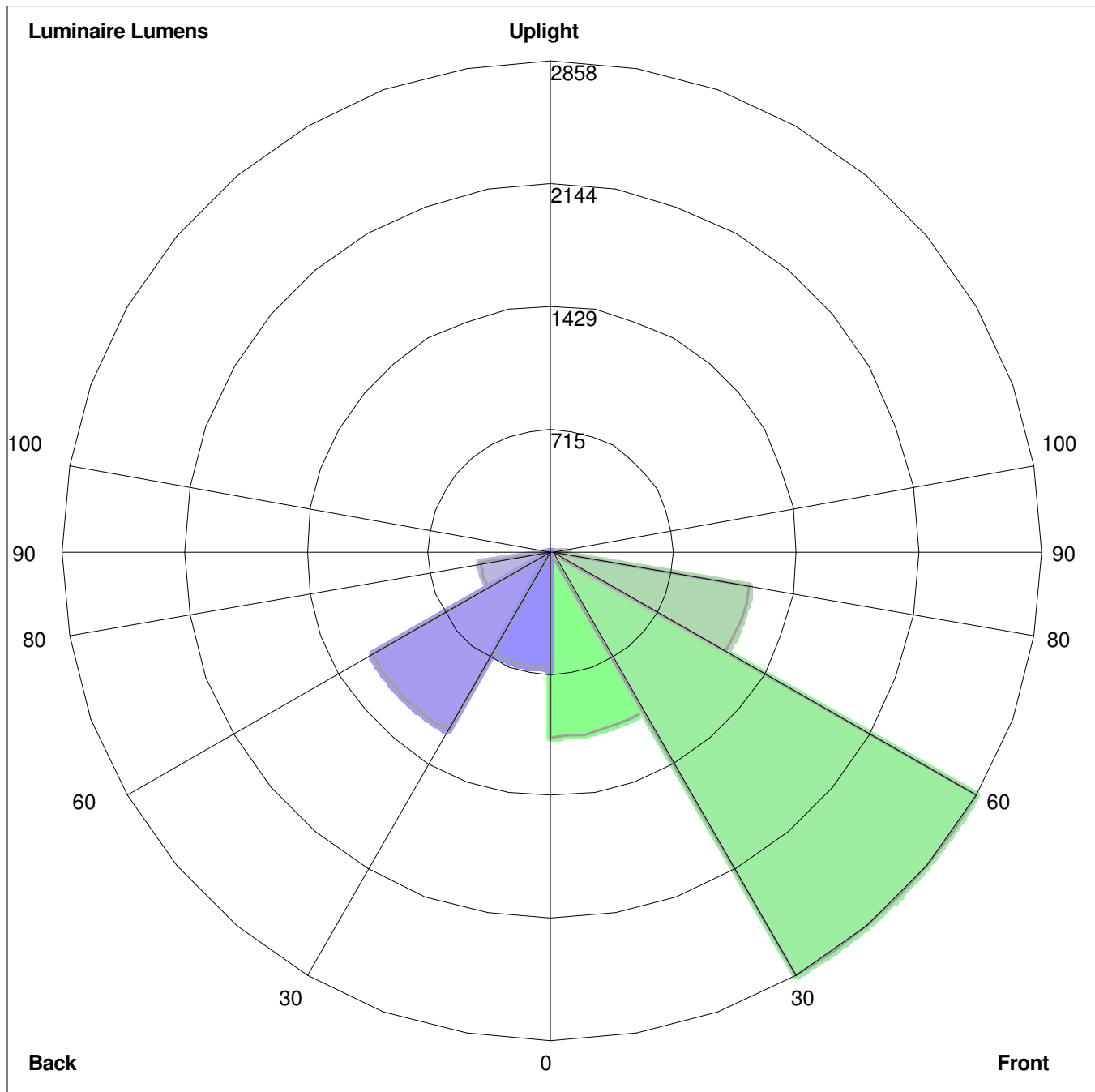
Maximum Candela = 3181.421 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1081.1, Medium=2858.4, High=1178.8, Very High=90.8  
Back: Low=683.9, Medium=1210.3, High=419.8, Very High=22.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1