



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-840-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-L85-840-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	7984
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3366.387
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	3366.387
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	758.868 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-840-T3-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1144.0	N.A.	14.3
FM - Front-Medium (30-60)	3024.5	N.A.	37.9
FH - Front-High (60-80)	1247.4	N.A.	15.6
FVH - Front-Very High (80-90)	96.1	N.A.	1.2
BL - Back-Low (0-30)	723.7	N.A.	9.1
BM - Back-Medium (30-60)	1280.7	N.A.	16.0
BH - Back-High (60-80)	444.2	N.A.	5.6
BVH - Back-Very High (80-90)	23.9	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	7984.5	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>2.5</b>	<b>5.0</b>	<b>10.0</b>	<b>15.0</b>	<b>20.0</b>	<b>25.0</b>	<b>30.0</b>	<b>35.0</b>	<b>40.0</b>
<b>0.0</b>	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472
<b>2.5</b>	2264.163	2269.139	2264.163	2279.091	2276.603	2274.115	2269.139	2259.187	2254.210	2251.722
<b>5.0</b>	2358.710	2358.710	2358.710	2368.663	2366.175	2361.198	2353.734	2343.782	2333.829	2326.365
<b>7.5</b>	2398.520	2398.520	2398.520	2405.984	2401.008	2393.544	2386.079	2386.079	2386.079	2383.591
<b>10.0</b>	2480.627	2480.627	2478.139	2478.139	2468.186	2460.722	2453.258	2450.770	2443.305	2438.329
<b>12.5</b>	2582.638	2587.615	2580.150	2577.662	2567.710	2565.222	2555.269	2547.805	2535.365	2522.924
<b>15.0</b>	2677.186	2682.162	2674.698	2664.745	2654.793	2649.817	2642.353	2647.329	2642.353	2619.960
<b>17.5</b>	2756.805	2761.781	2754.317	2739.388	2719.483	2707.043	2704.555	2714.507	2712.019	2702.067
<b>20.0</b>	2911.066	2908.578	2893.650	2873.745	2851.352	2819.007	2794.126	2779.198	2764.269	2754.317
<b>22.5</b>	3075.280	3075.280	3057.864	3030.495	2998.150	2968.293	2938.435	2886.186	2843.888	2809.055
<b>25.0</b>	3202.173	3204.661	3184.756	3154.899	3120.066	3077.769	3042.935	2993.173	2950.876	2883.697
<b>27.5</b>	3309.161	3309.161	3291.744	3254.423	3207.149	3172.316	3127.530	3077.769	3025.519	2988.197
<b>30.0</b>	3366.387	3361.411	3341.506	3319.113	3271.840	3237.006	3184.756	3144.947	3107.626	3055.376
<b>32.5</b>	3339.018	3339.018	3324.090	3304.185	3286.768	3261.887	3227.054	3194.709	3162.364	3107.626
<b>35.0</b>	3251.935	3246.959	3232.030	3227.054	3224.566	3227.054	3217.102	3219.590	3189.733	3147.435
<b>37.5</b>	3112.602	3105.138	3092.697	3100.161	3107.626	3125.042	3159.876	3184.756	3194.709	3162.364
<b>40.0</b>	2866.281	2863.793	2871.257	2886.186	2923.507	2973.269	3055.376	3130.018	3177.292	3172.316
<b>42.5</b>	2557.758	2567.710	2572.686	2600.055	2682.162	2754.317	2898.626	3037.959	3120.066	3144.947
<b>45.0</b>	2224.353	2244.258	2261.675	2308.948	2393.544	2498.043	2684.650	2883.697	3025.519	3097.673
<b>47.5</b>	1940.711	1950.663	1970.568	2022.818	2109.901	2239.282	2443.305	2679.674	2873.745	3010.590
<b>50.0</b>	1706.830	1716.783	1721.759	1774.009	1868.556	2002.913	2216.889	2453.258	2682.162	2876.233
<b>52.5</b>	1480.414	1490.367	1495.343	1552.569	1644.628	1783.961	2000.425	2241.770	2480.627	2697.091
<b>55.0</b>	1283.855	1298.783	1303.760	1353.521	1445.581	1577.450	1801.378	2047.699	2271.627	2483.115
<b>57.5</b>	1112.177	1122.129	1127.105	1169.403	1253.998	1390.843	1594.866	1838.699	2052.675	2254.210
<b>60.0</b>	955.427	957.915	960.403	1000.213	1077.343	1206.724	1400.795	1622.235	1818.795	2002.913
<b>62.5</b>	803.653	803.653	811.118	850.927	913.129	1049.974	1216.676	1410.748	1587.402	1766.545
<b>65.0</b>	659.344	659.344	666.808	714.082	771.308	895.713	1042.510	1206.724	1360.986	1525.200
<b>67.5</b>	537.428	534.940	539.916	584.701	641.927	748.915	875.808	1027.582	1159.450	1298.783
<b>70.0</b>	430.440	427.952	435.416	470.249	515.035	612.070	724.034	843.463	967.867	1084.808
<b>72.5</b>	340.868	338.380	343.357	373.214	415.511	490.154	582.213	691.689	788.725	883.272
<b>75.0</b>	263.738	261.250	263.738	288.619	320.964	380.678	460.297	539.916	619.535	696.665
<b>77.5</b>	194.071	191.583	194.071	213.976	236.369	283.642	345.845	403.071	462.785	529.963
<b>80.0</b>	134.357	131.869	134.357	146.797	164.214	196.559	241.345	283.642	325.940	373.214
<b>82.5</b>	82.107	82.107	82.107	92.059	102.012	121.916	149.285	179.143	204.023	233.881
<b>85.0</b>	42.298	39.809	39.809	44.786	52.250	62.202	77.131	89.571	104.500	119.428
<b>87.5</b>	12.440	12.440	12.440	14.929	14.929	17.417	22.393	27.369	32.345	37.321
<b>90.0</b>	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>									
	<b>45.0</b>	<b>50.0</b>	<b>55.0</b>	<b>60.0</b>	<b>65.0</b>	<b>70.0</b>	<b>75.0</b>	<b>80.0</b>	<b>85.0</b>	<b>90.0</b>
<b>0.0</b>	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472
<b>2.5</b>	2254.210	2246.746	2234.306	2226.841	2226.841	2224.353	2214.401	2209.425	2201.961	2194.496
<b>5.0</b>	2323.877	2311.437	2294.020	2279.091	2271.627	2266.651	2249.234	2236.794	2224.353	2209.425
<b>7.5</b>	2386.079	2378.615	2368.663	2351.246	2341.294	2331.341	2311.437	2291.532	2274.115	2249.234
<b>10.0</b>	2433.353	2433.353	2425.889	2418.424	2410.960	2398.520	2381.103	2358.710	2328.853	2298.996
<b>12.5</b>	2515.460	2510.484	2503.020	2493.067	2478.139	2465.698	2443.305	2418.424	2378.615	2341.294
<b>15.0</b>	2600.055	2587.615	2570.198	2550.293	2532.877	2517.948	2495.555	2468.186	2423.401	2376.127
<b>17.5</b>	2679.674	2659.769	2639.865	2610.007	2590.103	2572.686	2547.805	2517.948	2460.722	2403.496
<b>20.0</b>	2736.900	2716.995	2712.019	2689.626	2652.305	2619.960	2587.615	2550.293	2485.603	2420.913
<b>22.5</b>	2776.710	2766.757	2761.781	2734.412	2689.626	2657.281	2627.424	2585.127	2527.900	2445.793
<b>25.0</b>	2833.936	2799.102	2789.150	2774.221	2736.900	2697.091	2662.257	2614.984	2557.758	2475.651
<b>27.5</b>	2923.507	2843.888	2826.471	2801.590	2771.733	2721.972	2684.650	2637.376	2570.198	2480.627

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## CANDELA TABULATION - (Cont.)

30.0	2998.150	2921.019	2861.305	2831.448	2806.567	2766.757	2709.531	2659.769	2582.638	2480.627
32.5	3055.376	2985.709	2918.531	2861.305	2836.424	2796.614	2746.852	2687.138	2595.079	2488.091
35.0	3090.209	3030.495	2955.852	2906.090	2878.721	2841.400	2774.221	2702.067	2614.984	2500.531
37.5	3112.602	3047.911	2993.173	2938.435	2908.578	2876.233	2816.519	2734.412	2634.888	2503.020
40.0	3122.554	3062.840	3008.102	2965.804	2938.435	2903.602	2841.400	2741.876	2629.912	2493.067
42.5	3125.042	3062.840	3000.638	2973.269	2928.483	2908.578	2863.793	2766.757	2649.817	2503.020
45.0	3100.161	3045.423	2985.709	2948.388	2935.947	2923.507	2886.186	2791.638	2667.234	2503.020
47.5	3045.423	3008.102	2943.412	2918.531	2928.483	2925.995	2891.162	2804.079	2669.722	2498.043
50.0	2953.364	2940.924	2893.650	2891.162	2903.602	2918.531	2911.066	2828.959	2679.674	2498.043
52.5	2821.495	2848.864	2846.376	2848.864	2876.233	2896.138	2903.602	2823.983	2672.210	2478.139
55.0	2637.376	2721.972	2776.710	2809.055	2831.448	2866.281	2876.233	2814.031	2669.722	2455.746
57.5	2420.913	2565.222	2657.281	2709.531	2749.341	2786.662	2806.567	2749.341	2610.007	2398.520
60.0	2184.544	2368.663	2490.579	2567.710	2624.936	2679.674	2704.555	2652.305	2517.948	2321.389
62.5	1948.175	2152.199	2303.972	2408.472	2498.043	2552.781	2587.615	2545.317	2418.424	2221.865
65.0	1704.342	1920.806	2082.532	2211.913	2328.853	2391.055	2453.258	2420.913	2303.972	2097.461
67.5	1475.438	1669.509	1846.164	1983.009	2124.830	2201.961	2261.675	2249.234	2134.782	1950.663
70.0	1244.045	1408.260	1577.450	1731.711	1880.997	1960.616	2030.282	2010.378	1910.854	1741.664
72.5	1015.141	1156.962	1316.200	1467.974	1604.819	1684.438	1741.664	1709.319	1619.747	1482.902
75.0	801.165	920.594	1074.855	1194.284	1311.224	1373.426	1415.724	1380.891	1298.783	1186.819
77.5	604.606	699.154	826.046	923.082	1015.141	1047.486	1079.831	1040.022	972.844	888.248
80.0	427.952	495.130	592.166	659.344	726.523	738.963	758.868	729.011	679.249	624.511
82.5	268.714	320.964	380.678	422.975	465.273	495.130	487.666	462.785	442.880	400.583
85.0	136.845	166.702	196.559	218.952	243.833	261.250	256.273	241.345	238.857	213.976
87.5	42.298	52.250	64.690	69.667	79.619	89.571	87.083	79.619	82.107	74.643
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	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472
2.5	2187.032	2179.568	2174.592	2164.639	2157.175	2152.199	2152.199	2149.711	2144.734	2142.246
5.0	2194.496	2179.568	2164.639	2144.734	2129.806	2117.365	2109.901	2104.925	2092.485	2082.532
7.5	2226.841	2201.961	2174.592	2152.199	2127.318	2109.901	2094.973	2072.580	2052.675	2035.258
10.0	2269.139	2234.306	2199.472	2169.615	2134.782	2104.925	2077.556	2042.723	2012.866	1980.520
12.5	2301.484	2261.675	2224.353	2182.056	2142.246	2102.437	2060.139	2007.889	1963.104	1918.318
15.0	2323.877	2274.115	2221.865	2179.568	2134.782	2082.532	2022.818	1963.104	1910.854	1851.140
17.5	2341.294	2281.579	2221.865	2159.663	2099.949	2037.747	1968.080	1903.390	1833.723	1759.080
20.0	2346.270	2286.556	2221.865	2144.734	2072.580	1997.937	1910.854	1816.306	1726.735	1627.212
22.5	2358.710	2286.556	2211.913	2124.830	2037.747	1943.199	1833.723	1714.295	1589.890	1467.974
25.0	2381.103	2296.508	2201.961	2104.925	1995.449	1876.021	1736.688	1589.890	1445.581	1306.248
27.5	2386.079	2291.532	2182.056	2072.580	1948.175	1796.402	1629.700	1462.998	1308.736	1166.915
30.0	2376.127	2279.091	2157.175	2022.818	1883.485	1709.319	1520.224	1333.617	1179.355	1057.439
32.5	2378.615	2259.187	2134.782	1990.473	1813.818	1609.795	1403.283	1216.676	1077.343	982.796
35.0	2371.151	2241.770	2104.925	1935.735	1739.176	1512.759	1291.319	1112.177	990.260	920.594
37.5	2366.175	2229.330	2067.604	1876.021	1649.604	1408.260	1176.867	1010.165	918.106	870.832
40.0	2351.246	2201.961	2022.818	1811.330	1567.497	1296.295	1069.879	913.129	840.975	816.094
42.5	2348.758	2177.080	1985.497	1739.176	1470.462	1186.819	965.379	828.534	773.796	763.844
45.0	2331.341	2152.199	1935.735	1662.045	1365.962	1069.879	868.344	748.915	706.618	711.594
47.5	2301.484	2112.389	1880.997	1592.378	1273.903	972.844	776.284	676.761	646.904	659.344
50.0	2291.532	2087.508	1833.723	1525.200	1186.819	888.248	701.642	614.558	589.678	604.606
52.5	2264.163	2047.699	1778.985	1460.509	1112.177	813.606	634.463	547.380	524.987	547.380
55.0	2234.306	1997.937	1721.759	1390.843	1044.998	751.403	574.749	492.642	475.225	487.666
57.5	2167.127	1925.782	1649.604	1311.224	967.867	686.713	520.011	442.880	422.975	422.975
60.0	2087.508	1836.211	1552.569	1221.653	888.248	624.511	467.761	398.095	370.726	363.261
62.5	1990.473	1739.176	1455.533	1129.593	808.630	567.285	422.975	353.309	323.452	313.499
65.0	1885.973	1629.700	1348.545	1032.558	733.987	515.035	375.702	311.011	281.154	268.714

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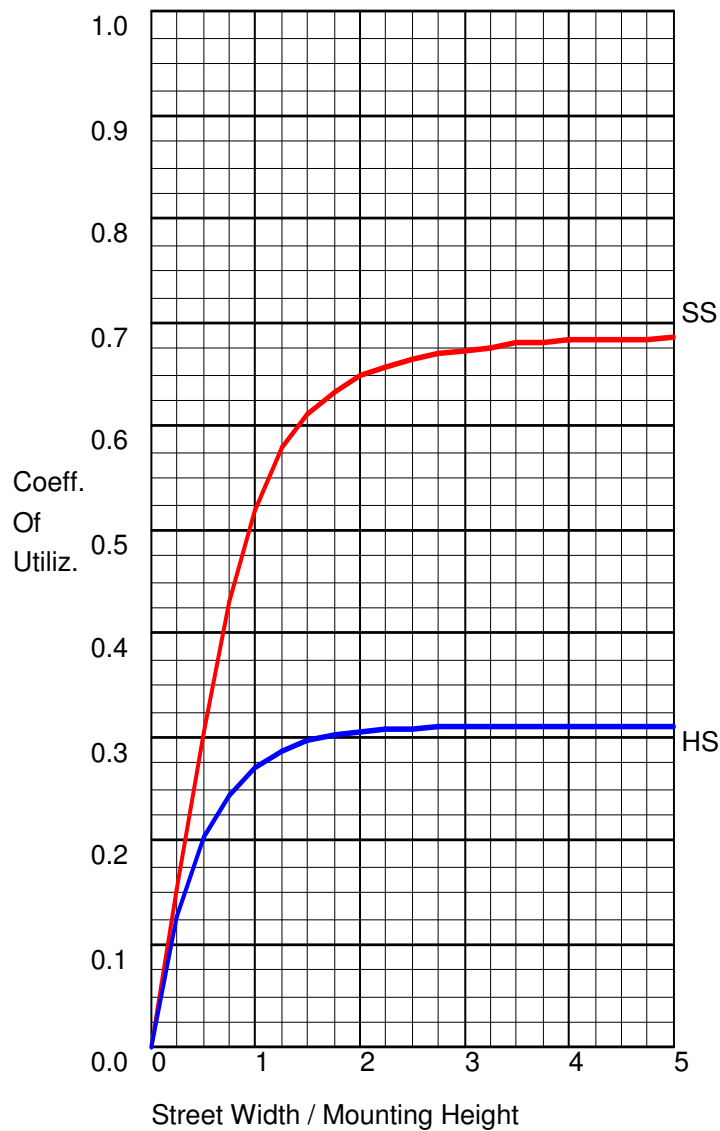
## CANDELA TABULATION - (Cont.)

67.5	1736.688	1497.831	1229.117	935.522	654.368	455.321	328.428	268.714	238.857	221.440
70.0	1547.593	1331.129	1092.272	818.582	569.773	390.630	278.666	223.928	189.095	159.238
72.5	1313.712	1132.081	928.058	694.177	477.713	320.964	218.952	166.702	126.893	87.083
75.0	1054.951	908.153	748.915	559.820	378.190	233.881	134.357	97.036	44.786	17.417
77.5	786.237	696.665	574.749	422.975	261.250	104.500	52.250	17.417	4.976	2.488
80.0	554.844	495.130	408.047	263.738	57.226	19.905	7.464	2.488	2.488	0.000
82.5	358.285	318.476	261.250	111.964	17.417	4.976	2.488	2.488	0.000	0.000
85.0	191.583	171.678	126.893	24.881	4.976	2.488	2.488	2.488	0.000	0.000
87.5	72.155	59.714	17.417	2.488	2.488	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	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472	2199.472
2.5	2139.758	2142.246	2137.270	2139.758	2144.734	2139.758	2132.294	2124.830
5.0	2077.556	2072.580	2062.627	2065.116	2070.092	2062.627	2060.139	2052.675
7.5	2020.330	2007.889	1987.985	1983.009	1983.009	1980.520	1975.544	1978.032
10.0	1953.151	1933.247	1905.878	1880.997	1871.044	1863.580	1856.116	1861.092
12.5	1878.509	1846.164	1803.866	1771.521	1751.616	1729.223	1731.711	1736.688
15.0	1783.961	1729.223	1674.485	1619.747	1592.378	1562.521	1565.009	1569.985
17.5	1667.021	1584.914	1515.247	1443.093	1398.307	1356.010	1351.033	1356.010
20.0	1517.736	1415.724	1321.176	1249.022	1196.772	1151.986	1137.058	1137.058
22.5	1338.593	1239.069	1156.962	1082.320	1040.022	1010.165	990.260	985.284
25.0	1174.379	1092.272	1025.093	977.820	947.963	933.034	923.082	920.594
27.5	1059.927	1000.213	955.427	925.570	908.153	903.177	903.177	900.689
30.0	987.772	945.475	918.106	903.177	905.665	908.153	915.617	910.641
32.5	933.034	913.129	905.665	913.129	928.058	938.010	947.963	947.963
35.0	888.248	890.737	900.689	920.594	938.010	957.915	975.332	977.820
37.5	858.391	870.832	890.737	913.129	933.034	952.939	970.355	972.844
40.0	823.558	840.975	868.344	895.713	920.594	945.475	965.379	965.379
42.5	778.772	806.141	848.439	883.272	915.617	940.498	957.915	962.891
45.0	741.451	778.772	823.558	850.927	880.784	908.153	925.570	933.034
47.5	699.154	733.987	768.820	798.677	816.094	840.975	848.439	853.415
50.0	646.904	671.785	694.177	714.082	719.058	738.963	741.451	741.451
52.5	574.749	594.654	609.582	614.558	617.047	624.511	626.999	622.023
55.0	502.594	515.035	520.011	520.011	517.523	524.987	529.963	520.011
57.5	425.464	430.440	435.416	435.416	437.904	440.392	442.880	440.392
60.0	365.749	363.261	370.726	370.726	373.214	375.702	373.214	373.214
62.5	311.011	311.011	311.011	308.523	303.547	303.547	303.547	303.547
65.0	263.738	256.273	241.345	228.904	226.416	216.464	216.464	216.464
67.5	204.023	184.119	159.238	136.845	109.476	64.690	52.250	49.762
70.0	129.381	92.059	44.786	27.369	19.905	12.440	12.440	12.440
72.5	39.809	17.417	9.952	7.464	4.976	4.976	4.976	4.976
75.0	7.464	4.976	2.488	2.488	2.488	2.488	2.488	2.488
77.5	2.488	2.488	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

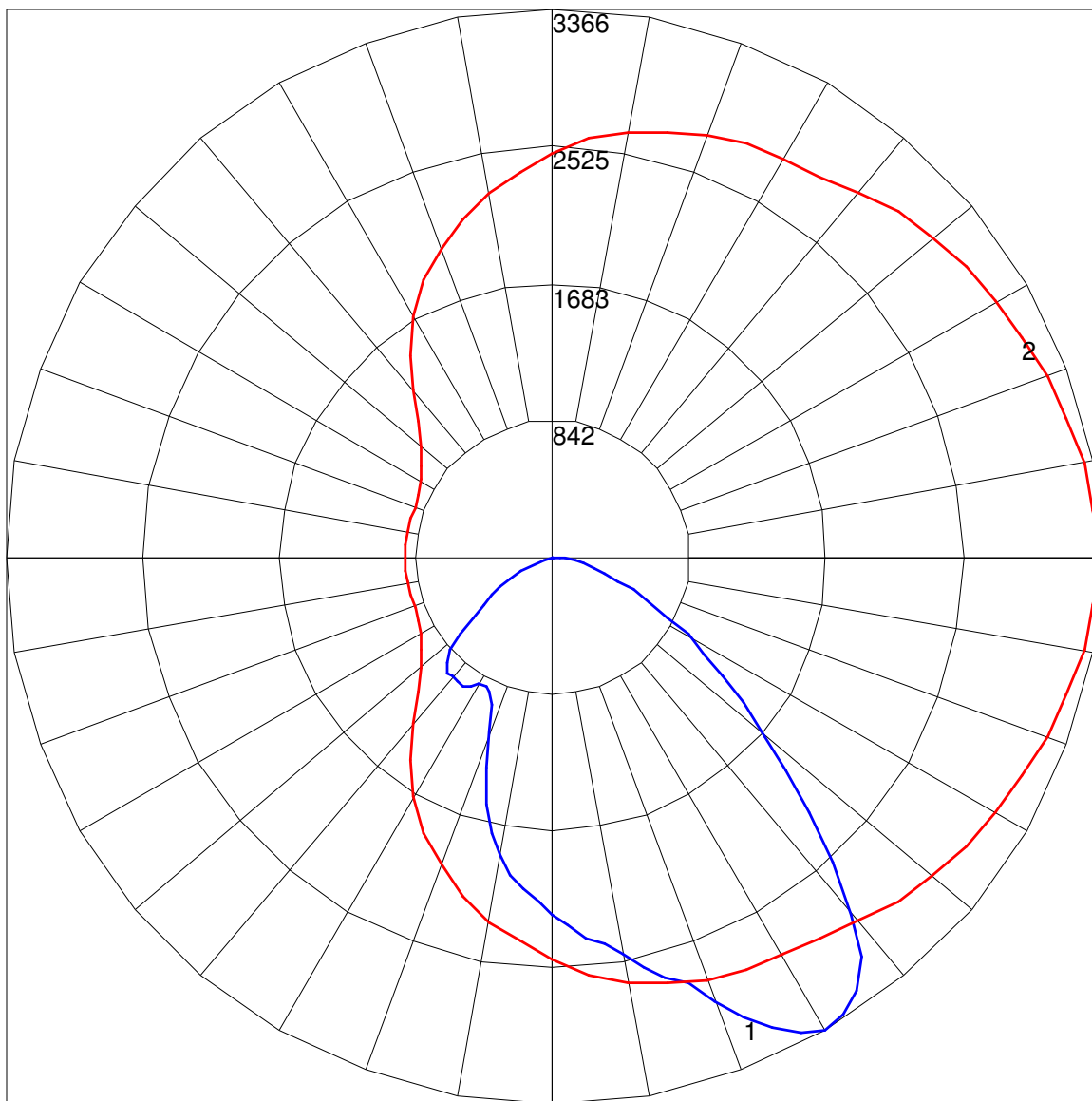
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

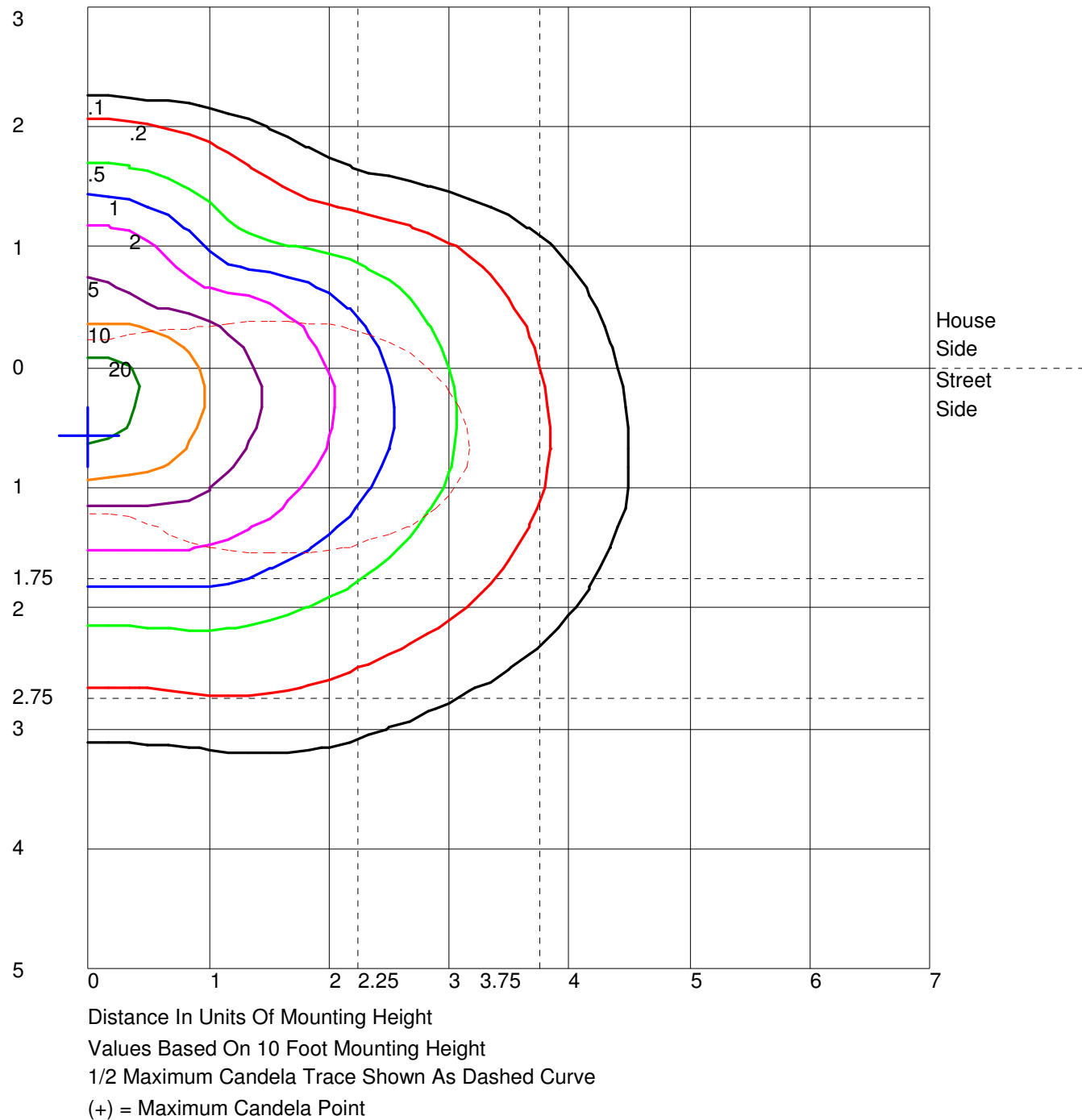
	Lumens	Percent Of Luminaire
Downward Street Side	5512.0	69.0
Downward House Side	2472.5	31.0
Downward Total	7984.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7984.5	100.0

POLAR GRAPH



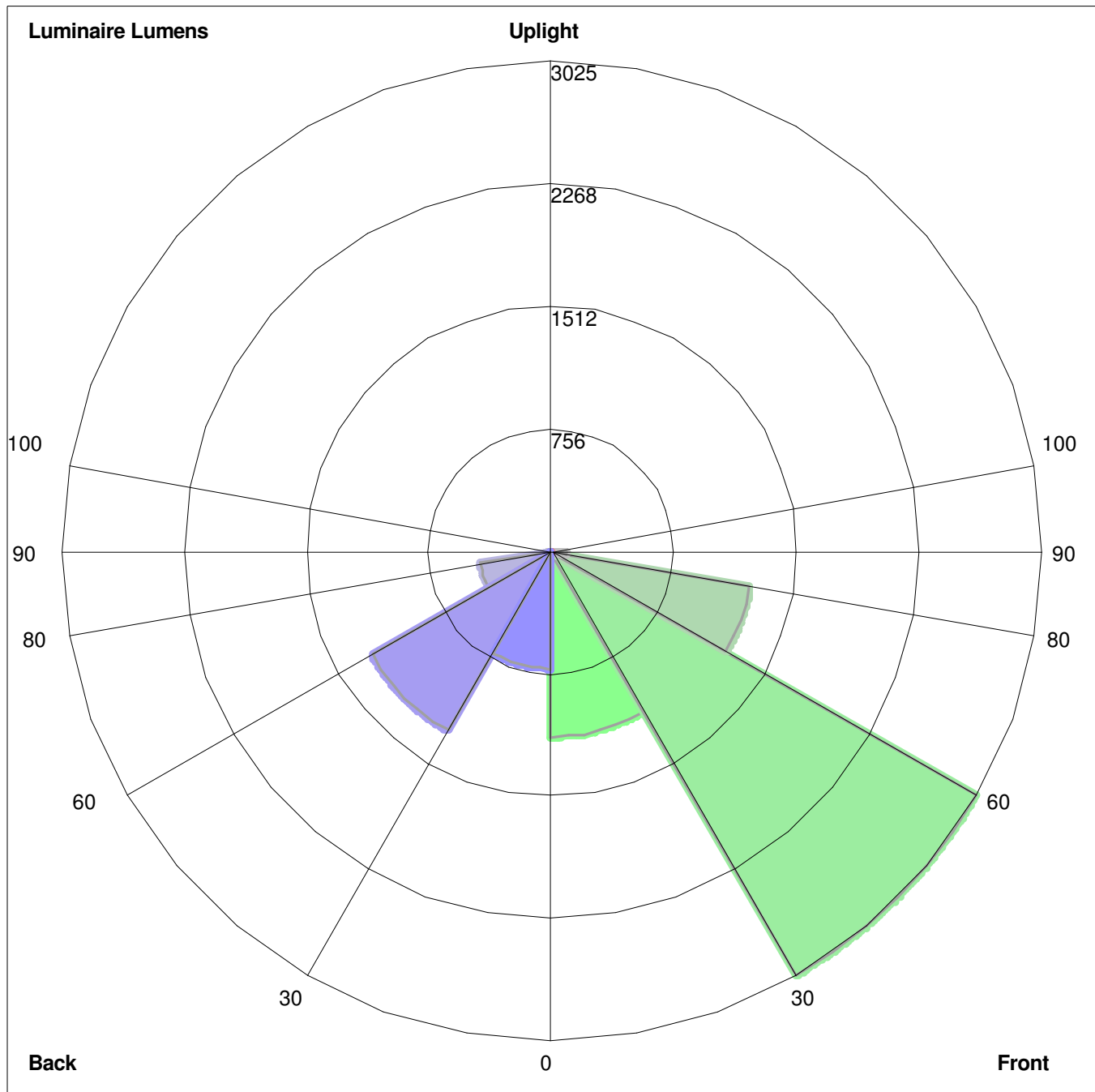
Maximum Candela = 3366.387 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1144.0, Medium=3024.5, High=1247.4, Very High=96.1  
Back: Low=723.7, Medium=1280.7, High=444.2, Very High=23.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1