



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-830-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-L60-830-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	5386
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1482.146
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	1482.146
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	410.408 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L60-830-TFT-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	374.9	N.A.	7.0
FM - Front-Medium (30-60)	1496.9	N.A.	27.8
FH - Front-High (60-80)	950.9	N.A.	17.7
FVH - Front-Very High (80-90)	72.8	N.A.	1.4
BL - Back-Low (0-30)	363.1	N.A.	6.7
BM - Back-Medium (30-60)	1418.6	N.A.	26.3
BH - Back-High (60-80)	693.7	N.A.	12.9
BVH - Back-Very High (80-90)	15.1	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	5386.0	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>10.0</b></u>	<u><b>15.0</b></u>	<u><b>20.0</b></u>	<u><b>25.0</b></u>	<u><b>30.0</b></u>	<u><b>35.0</b></u>	<u><b>40.0</b></u>	<u><b>45.0</b></u>
<b>0.0</b>	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310
<b>2.5</b>	829.321	827.195	822.942	818.689	818.689	818.689	820.816	816.563	816.563	814.436
<b>5.0</b>	816.563	814.436	810.183	805.930	803.804	803.804	803.804	801.677	799.551	801.677
<b>7.5</b>	837.827	833.574	829.321	822.942	816.563	814.436	814.436	810.183	803.804	801.677
<b>10.0</b>	825.068	820.816	814.436	805.930	803.804	808.057	812.310	814.436	814.436	816.563
<b>12.5</b>	837.827	831.448	820.816	816.563	814.436	820.816	820.816	818.689	812.310	814.436
<b>15.0</b>	839.954	835.701	827.195	829.321	833.574	839.954	839.954	839.954	831.448	829.321
<b>17.5</b>	863.345	859.092	848.460	850.586	850.586	854.839	856.965	859.092	854.839	859.092
<b>20.0</b>	884.609	876.104	867.598	869.724	873.977	876.104	886.736	886.736	886.736	888.862
<b>22.5</b>	916.506	910.127	903.748	903.748	895.242	901.621	903.748	914.380	918.633	916.506
<b>25.0</b>	948.403	942.024	939.898	937.771	929.265	933.518	931.392	937.771	942.024	946.277
<b>27.5</b>	999.439	995.186	986.680	978.174	967.542	963.289	959.036	973.921	978.174	969.668
<b>30.0</b>	1041.968	1037.715	1033.462	1024.956	1018.577	1003.692	999.439	1005.818	1001.565	1003.692
<b>32.5</b>	1093.003	1095.130	1093.003	1080.244	1061.106	1050.474	1039.841	1041.968	1035.588	1031.336
<b>35.0</b>	1156.797	1156.797	1152.544	1139.785	1114.268	1103.635	1093.003	1082.371	1082.371	1073.865
<b>37.5</b>	1222.717	1214.212	1205.706	1197.200	1173.809	1158.923	1139.785	1139.785	1122.774	1120.647
<b>40.0</b>	1282.258	1278.006	1265.247	1263.120	1231.223	1220.591	1205.706	1195.073	1178.062	1175.935
<b>42.5</b>	1322.661	1324.788	1314.155	1322.661	1299.270	1292.891	1273.753	1256.741	1243.982	1229.097
<b>45.0</b>	1367.317	1373.696	1363.064	1373.696	1360.938	1363.064	1343.926	1324.788	1303.523	1301.397
<b>47.5</b>	1409.846	1416.226	1414.099	1418.352	1409.846	1411.973	1390.708	1384.329	1363.064	1365.191
<b>50.0</b>	1420.479	1431.111	1435.364	1433.237	1437.490	1437.490	1435.364	1422.605	1422.605	1407.720
<b>52.5</b>	1401.340	1414.099	1418.352	1422.605	1448.123	1448.123	1452.376	1443.870	1445.996	1445.996
<b>55.0</b>	1373.696	1384.329	1388.582	1403.467	1439.617	1439.617	1450.249	1458.755	1465.134	1471.514
<b>57.5</b>	1320.535	1331.167	1348.179	1377.949	1401.340	1409.846	1441.743	1452.376	1469.387	1471.514
<b>60.0</b>	1263.120	1271.626	1288.638	1320.535	1341.799	1373.696	1405.593	1431.111	1448.123	1456.629
<b>62.5</b>	1175.935	1195.073	1209.959	1239.729	1278.006	1309.902	1339.673	1369.444	1405.593	1414.099
<b>65.0</b>	1082.371	1097.256	1114.268	1148.291	1182.315	1216.338	1248.235	1280.132	1324.788	1341.799
<b>67.5</b>	973.921	978.174	999.439	1029.209	1054.727	1086.624	1120.647	1158.923	1207.832	1226.970
<b>70.0</b>	835.701	835.701	854.839	882.483	901.621	933.518	969.668	1007.944	1050.474	1080.244
<b>72.5</b>	680.469	680.469	697.481	725.125	744.263	771.907	816.563	837.827	880.357	908.001
<b>75.0</b>	527.363	527.363	546.502	574.146	593.284	614.548	657.078	682.595	712.366	731.504
<b>77.5</b>	389.143	389.143	406.155	431.672	448.684	467.822	501.846	523.110	542.249	561.387
<b>80.0</b>	267.935	265.808	280.693	299.832	312.590	331.729	359.373	370.005	382.764	397.649
<b>82.5</b>	163.738	161.611	174.370	182.876	197.761	206.267	225.405	231.785	240.291	248.796
<b>85.0</b>	78.679	76.553	85.059	87.185	97.817	99.944	112.703	119.082	119.082	123.335
<b>87.5</b>	21.265	21.265	23.391	23.391	27.644	25.518	31.897	34.023	34.023	36.150
<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>									
	<u><b>50.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>60.0</b></u>	<u><b>65.0</b></u>	<u><b>70.0</b></u>	<u><b>75.0</b></u>	<u><b>80.0</b></u>	<u><b>85.0</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310
<b>2.5</b>	814.436	814.436	816.563	818.689	818.689	816.563	814.436	812.310	812.310	810.183
<b>5.0</b>	803.804	805.930	808.057	812.310	816.563	816.563	816.563	814.436	810.183	805.930
<b>7.5</b>	801.677	801.677	801.677	803.804	810.183	814.436	816.563	816.563	814.436	810.183
<b>10.0</b>	814.436	810.183	808.057	801.677	799.551	803.804	810.183	812.310	810.183	803.804
<b>12.5</b>	820.816	820.816	820.816	812.310	803.804	805.930	808.057	816.563	816.563	812.310
<b>15.0</b>	829.321	831.448	833.574	842.080	835.701	831.448	825.068	831.448	829.321	820.816
<b>17.5</b>	861.218	856.965	854.839	852.712	852.712	844.207	837.827	839.954	839.954	833.574
<b>20.0</b>	886.736	884.609	880.357	869.724	863.345	863.345	854.839	854.839	861.218	856.965
<b>22.5</b>	910.127	903.748	903.748	901.621	893.115	893.115	882.483	878.230	884.609	882.483
<b>25.0</b>	939.898	937.771	933.518	933.518	922.886	918.633	914.380	908.001	914.380	916.506
<b>27.5</b>	971.795	969.668	965.415	956.909	954.783	950.530	948.403	952.656	954.783	954.783

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## CANDELA TABULATION - (Cont.)

30.0	1001.565	997.312	990.933	990.933	986.680	990.933	990.933	1001.565	1003.692	1003.692
32.5	1024.956	1022.830	1022.830	1031.336	1035.588	1027.083	1033.462	1041.968	1041.968	1046.221
35.0	1071.738	1069.612	1065.359	1073.865	1071.738	1080.244	1088.750	1095.130	1095.130	1110.015
37.5	1116.394	1116.394	1116.394	1122.774	1122.774	1139.785	1148.291	1146.165	1152.544	1158.923
40.0	1171.682	1173.809	1175.935	1180.188	1180.188	1197.200	1207.832	1209.959	1220.591	1222.717
42.5	1239.729	1241.856	1239.729	1243.982	1246.109	1267.373	1269.500	1273.753	1273.753	1275.879
45.0	1299.270	1301.397	1299.270	1301.397	1312.029	1326.914	1326.914	1322.661	1322.661	1320.535
47.5	1358.811	1356.685	1354.558	1360.938	1363.064	1369.444	1365.191	1363.064	1354.558	1356.685
50.0	1409.846	1407.720	1407.720	1409.846	1407.720	1414.099	1405.593	1390.708	1380.076	1382.202
52.5	1443.870	1445.996	1445.996	1437.490	1435.364	1431.111	1416.226	1405.593	1388.582	1384.329
55.0	1467.261	1473.640	1471.514	1458.755	1445.996	1435.364	1411.973	1401.340	1380.076	1373.696
57.5	1477.893	1482.146	1477.893	1456.629	1439.617	1422.605	1394.961	1369.444	1350.305	1339.673
60.0	1465.134	1465.134	1463.008	1431.111	1416.226	1392.835	1356.685	1331.167	1295.017	1288.638
62.5	1431.111	1428.985	1422.605	1403.467	1369.444	1348.179	1307.776	1273.753	1239.729	1231.223
65.0	1358.811	1358.811	1354.558	1341.799	1299.270	1275.879	1241.856	1201.453	1169.556	1150.418
67.5	1241.856	1246.109	1248.235	1229.097	1201.453	1171.682	1137.659	1099.382	1075.991	1052.600
70.0	1095.130	1099.382	1101.509	1086.624	1063.233	1046.221	1007.944	973.921	948.403	922.886
72.5	927.139	929.265	929.265	918.633	899.495	884.609	854.839	820.816	793.171	769.780
75.0	744.263	744.263	752.769	740.010	731.504	708.113	691.101	646.445	618.801	597.537
77.5	565.640	576.272	576.272	561.387	552.881	535.869	516.731	478.455	455.064	446.558
80.0	399.775	410.408	399.775	395.523	389.143	372.131	359.373	331.729	314.717	310.464
82.5	250.923	259.429	253.049	248.796	250.923	233.911	227.532	208.394	199.888	197.761
85.0	125.461	131.841	133.967	125.461	129.714	119.082	119.082	108.450	104.197	104.197
87.5	36.150	40.403	42.529	38.276	42.529	38.276	40.403	36.150	38.276	38.276
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	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310
2.5	808.057	805.930	805.930	805.930	805.930	805.930	805.930	805.930	803.804	803.804
5.0	803.804	799.551	799.551	799.551	799.551	803.804	810.183	812.310	816.563	818.689
7.5	808.057	803.804	803.804	805.930	810.183	816.563	820.816	816.563	812.310	810.183
10.0	799.551	799.551	805.930	812.310	816.563	814.436	812.310	805.930	801.677	801.677
12.5	805.930	810.183	814.436	814.436	808.057	803.804	803.804	801.677	810.183	814.436
15.0	814.436	820.816	825.068	820.816	816.563	812.310	816.563	818.689	818.689	814.436
17.5	822.942	825.068	829.321	825.068	825.068	833.574	839.954	839.954	837.827	835.701
20.0	852.712	846.333	846.333	844.207	850.586	848.460	852.712	854.839	861.218	859.092
22.5	882.483	878.230	869.724	867.598	869.724	869.724	876.104	876.104	876.104	873.977
25.0	916.506	910.127	899.495	895.242	899.495	899.495	903.748	899.495	899.495	893.115
27.5	948.403	942.024	937.771	935.645	927.139	931.392	925.012	922.886	925.012	918.633
30.0	997.312	990.933	988.806	973.921	959.036	959.036	954.783	950.530	948.403	937.771
32.5	1044.094	1039.841	1035.588	1022.830	1005.818	993.059	988.806	982.427	980.300	965.415
35.0	1107.888	1097.256	1088.750	1073.865	1054.727	1035.588	1022.830	1014.324	1007.944	993.059
37.5	1158.923	1152.544	1141.912	1131.279	1101.509	1080.244	1065.359	1050.474	1039.841	1027.083
40.0	1222.717	1220.591	1207.832	1184.441	1158.923	1139.785	1118.521	1095.130	1075.991	1069.612
42.5	1282.258	1280.132	1267.373	1256.741	1226.970	1199.326	1169.556	1154.671	1131.279	1124.900
45.0	1326.914	1324.788	1322.661	1307.776	1280.132	1260.994	1233.350	1214.212	1184.441	1184.441
47.5	1356.685	1356.685	1365.191	1354.558	1329.041	1309.902	1290.764	1271.626	1258.867	1246.109
50.0	1390.708	1386.455	1390.708	1392.835	1384.329	1358.811	1350.305	1341.799	1316.282	1309.902
52.5	1401.340	1401.340	1416.226	1428.985	1420.479	1407.720	1394.961	1390.708	1375.823	1360.938
55.0	1388.582	1405.593	1428.985	1437.490	1441.743	1439.617	1428.985	1422.605	1405.593	1390.708
57.5	1363.064	1384.329	1411.973	1428.985	1435.364	1443.870	1435.364	1428.985	1418.352	1390.708
60.0	1316.282	1335.420	1371.570	1399.214	1405.593	1420.479	1420.479	1407.720	1390.708	1365.191
62.5	1248.235	1278.006	1312.029	1337.547	1365.191	1367.317	1380.076	1367.317	1348.179	1324.788
65.0	1167.429	1199.326	1231.223	1254.614	1280.132	1292.891	1303.523	1292.891	1267.373	1243.982

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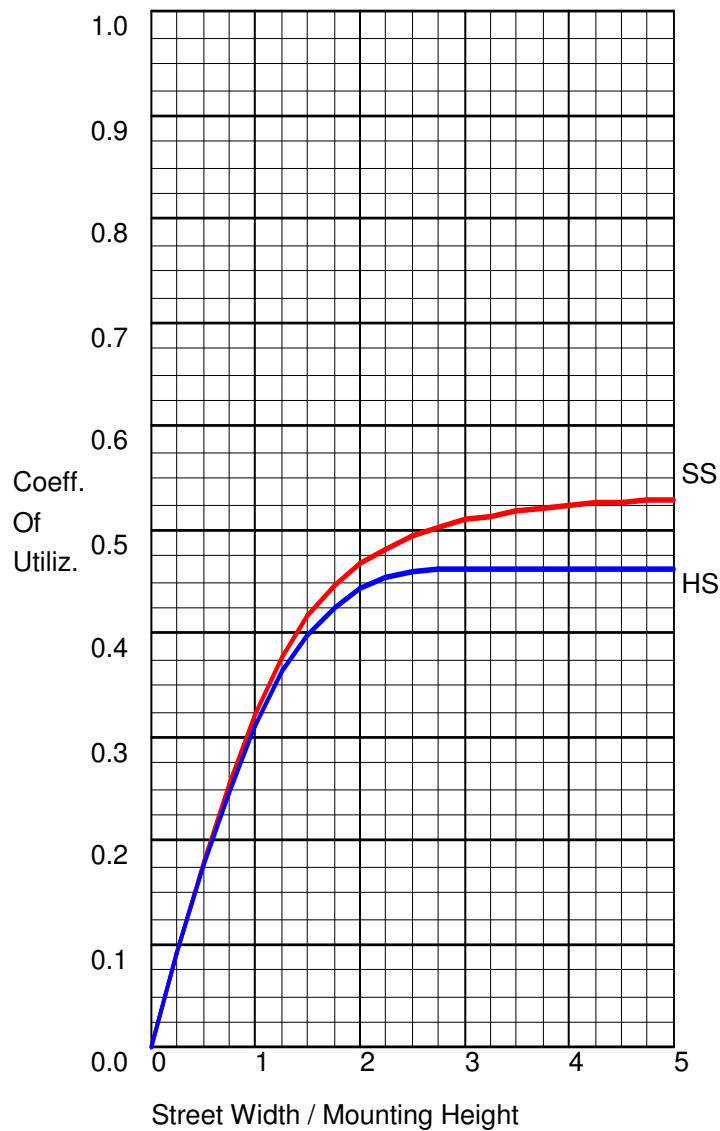
## CANDELA TABULATION - (Cont.)

67.5	1067.485	1095.130	1122.774	1144.038	1169.556	1173.809	1178.062	1167.429	1141.912	1105.762
70.0	937.771	956.909	990.933	1007.944	1033.462	1018.577	1024.956	1014.324	973.921	886.736
72.5	784.666	805.930	829.321	839.954	859.092	835.701	831.448	829.321	718.745	370.005
75.0	608.169	631.560	652.825	667.710	661.331	529.490	491.213	463.569	116.956	10.632
77.5	448.684	465.696	484.834	482.708	365.752	227.532	140.347	12.759	4.253	2.126
80.0	314.717	325.349	335.981	242.417	46.782	12.759	4.253	2.126	2.126	0.000
82.5	199.888	206.267	206.267	91.438	6.379	2.126	2.126	2.126	0.000	0.000
85.0	106.323	106.323	82.932	12.759	2.126	0.000	0.000	0.000	0.000	0.000
87.5	38.276	34.023	6.379	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	812.310	812.310	812.310	812.310	812.310	812.310	812.310	812.310
2.5	803.804	808.057	810.183	814.436	812.310	810.183	808.057	805.930
5.0	820.816	822.942	825.068	827.195	825.068	820.816	814.436	814.436
7.5	808.057	808.057	812.310	812.310	808.057	801.677	797.424	793.171
10.0	801.677	803.804	810.183	814.436	814.436	808.057	801.677	797.424
12.5	816.563	814.436	812.310	812.310	814.436	808.057	799.551	795.298
15.0	818.689	820.816	820.816	820.816	818.689	814.436	808.057	803.804
17.5	837.827	835.701	831.448	827.195	820.816	820.816	818.689	814.436
20.0	854.839	848.460	837.827	839.954	833.574	833.574	827.195	825.068
22.5	871.851	861.218	856.965	859.092	854.839	854.839	848.460	848.460
25.0	893.115	886.736	878.230	871.851	876.104	880.357	871.851	873.977
27.5	914.380	905.874	905.874	901.621	901.621	901.621	890.989	895.242
30.0	939.898	933.518	925.012	920.759	933.518	944.150	933.518	944.150
32.5	956.909	963.289	954.783	956.909	956.909	967.542	971.795	986.680
35.0	986.680	988.806	984.553	997.312	1003.692	1018.577	1027.083	1031.336
37.5	1020.703	1020.703	1031.336	1039.841	1041.968	1061.106	1073.865	1075.991
40.0	1065.359	1061.106	1082.371	1095.130	1103.635	1118.521	1135.532	1133.406
42.5	1116.394	1112.141	1131.279	1146.165	1161.050	1184.441	1199.326	1199.326
45.0	1178.062	1173.809	1188.694	1212.085	1216.338	1231.223	1250.361	1256.741
47.5	1243.982	1235.476	1250.361	1267.373	1273.753	1282.258	1301.397	1305.650
50.0	1307.776	1297.144	1303.523	1318.408	1324.788	1331.167	1337.547	1339.673
52.5	1354.558	1341.799	1335.420	1339.673	1341.799	1339.673	1337.547	1337.547
55.0	1365.191	1343.926	1329.041	1324.788	1320.535	1314.155	1303.523	1301.397
57.5	1348.179	1331.167	1305.650	1288.638	1275.879	1263.120	1250.361	1250.361
60.0	1322.661	1292.891	1267.373	1246.109	1218.464	1199.326	1173.809	1180.188
62.5	1280.132	1241.856	1205.706	1173.809	1133.406	1103.635	1071.738	1071.738
65.0	1197.200	1144.038	1086.624	1029.209	942.024	884.609	805.930	803.804
67.5	1041.968	933.518	771.907	582.651	359.373	255.176	127.588	127.588
70.0	674.089	376.384	89.312	19.138	10.632	8.506	8.506	8.506
72.5	53.162	12.759	6.379	6.379	4.253	4.253	4.253	4.253
75.0	6.379	4.253	2.126	2.126	2.126	2.126	2.126	2.126
77.5	2.126	2.126	2.126	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

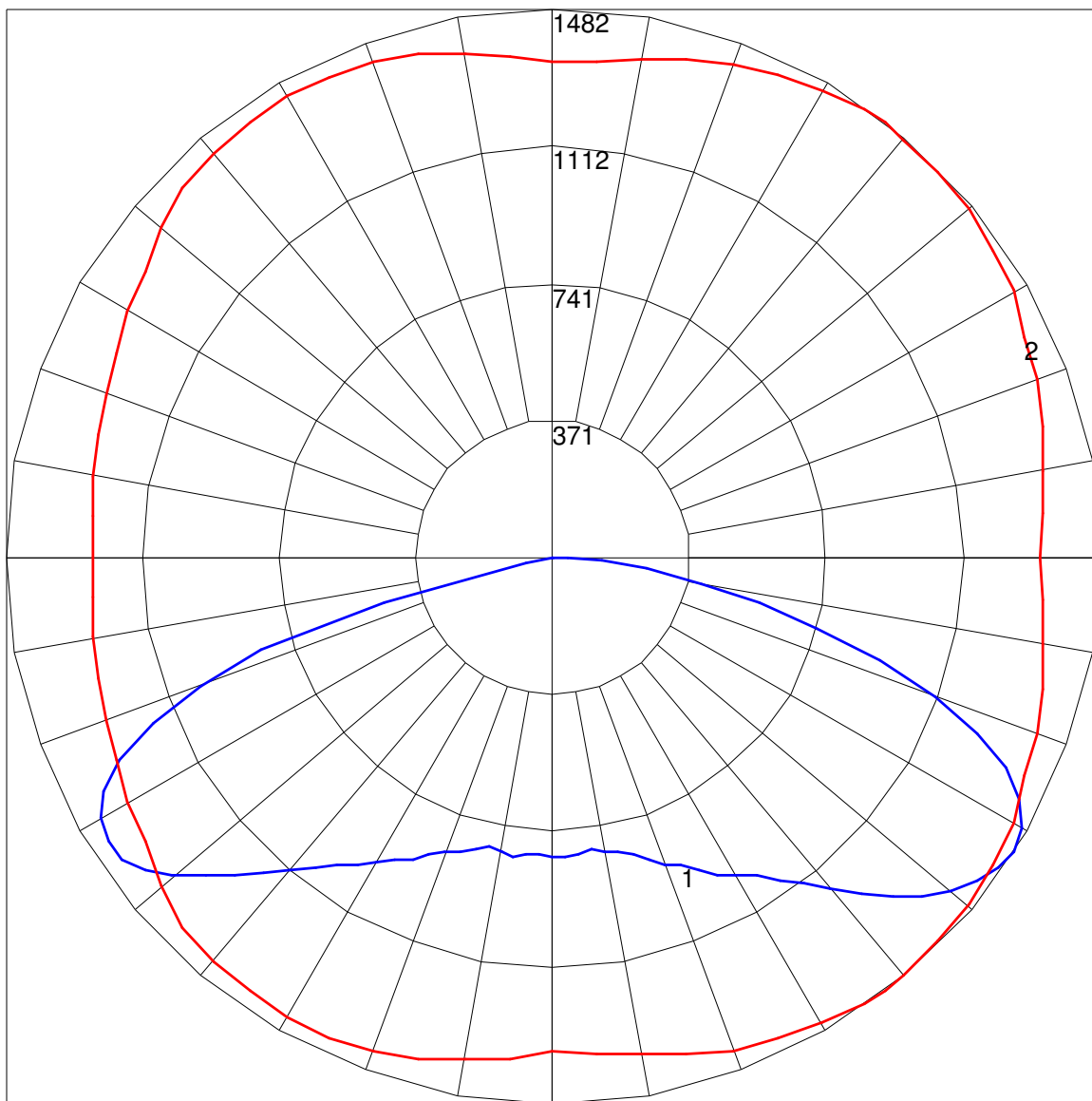
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

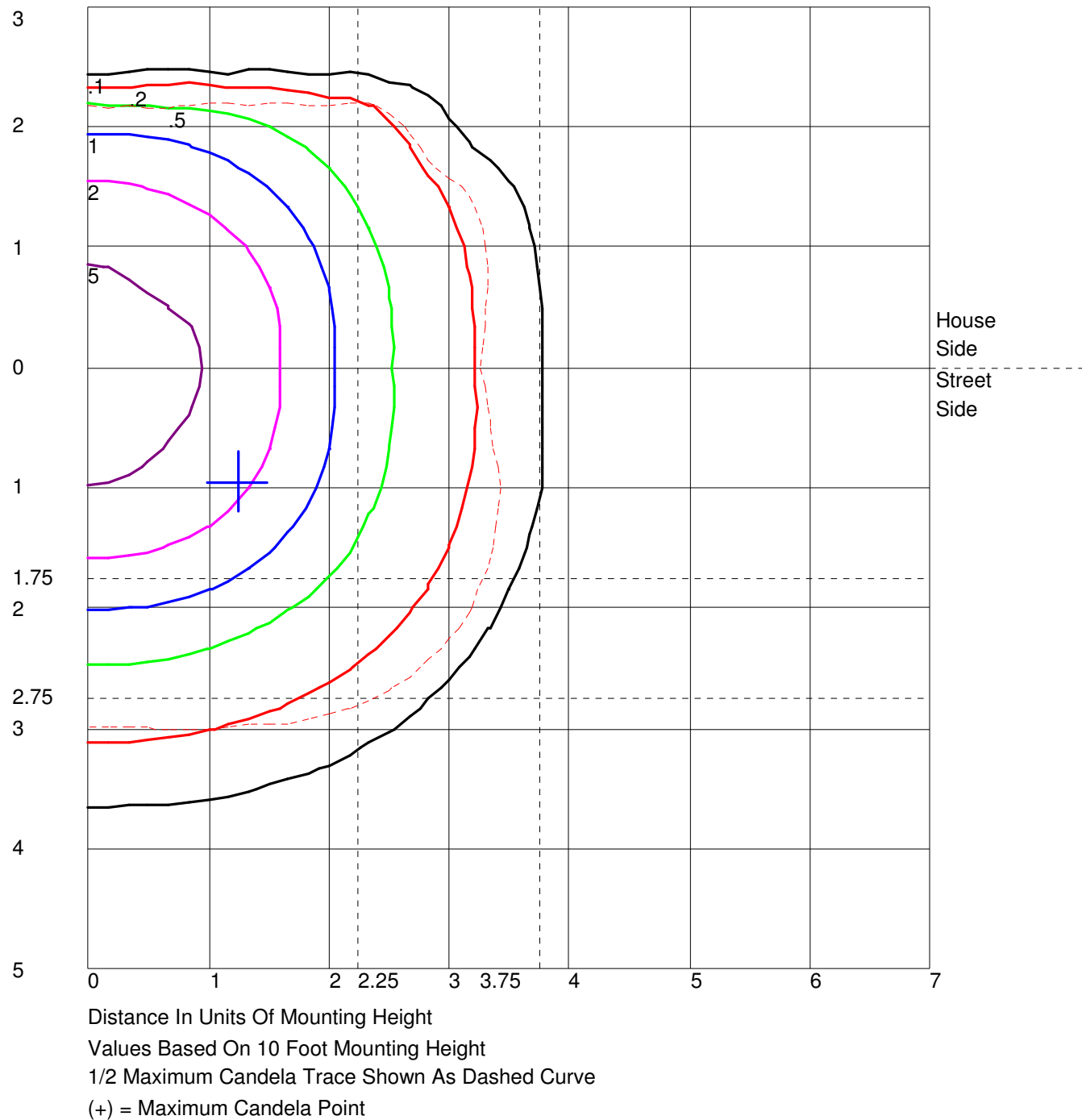
	Lumens	Percent Of Luminaire
Downward Street Side	2895.4	53.8
Downward House Side	2490.5	46.2
Downward Total	5385.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5385.9	100.0

POLAR GRAPH



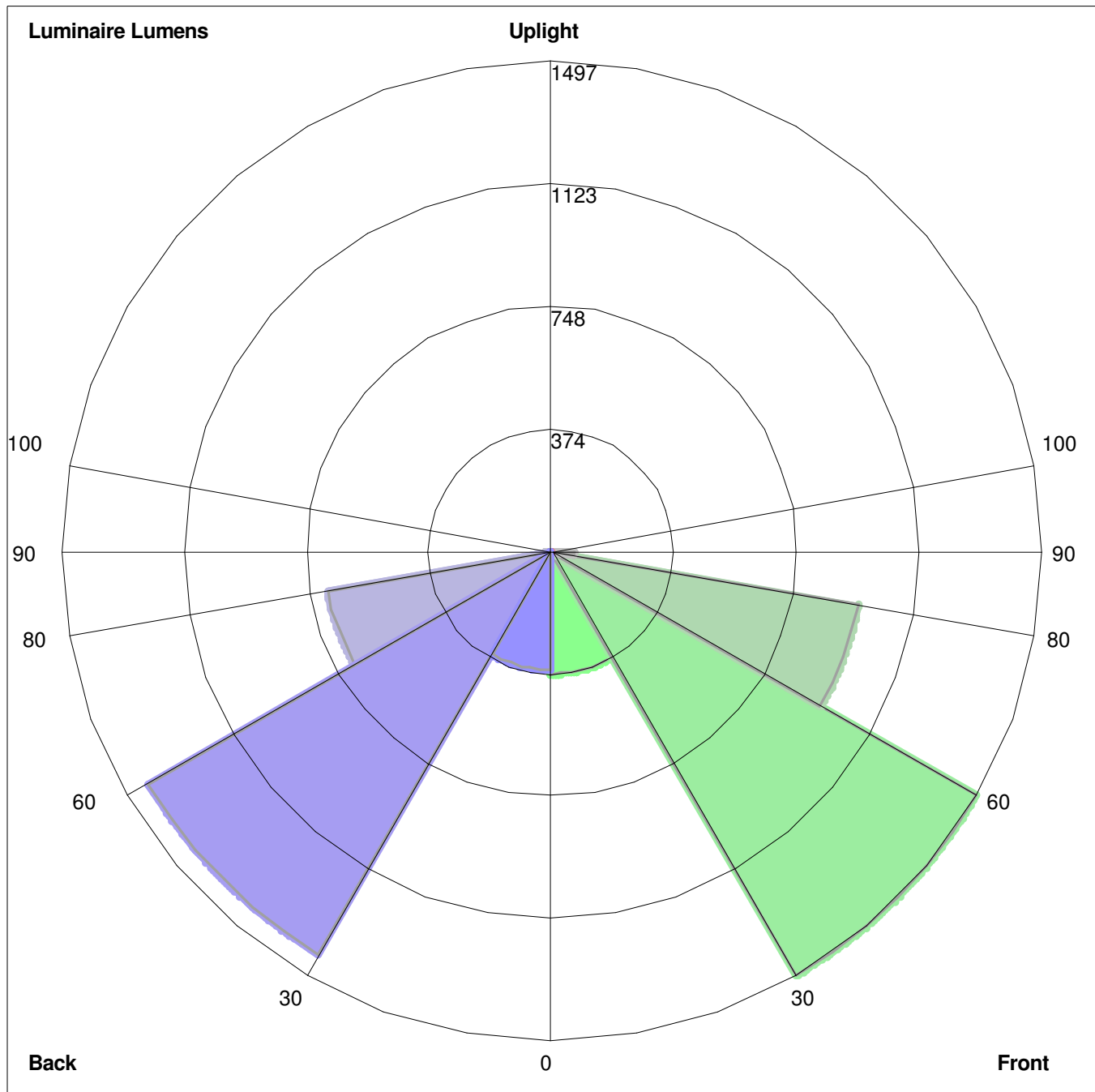
Maximum Candela = 1482.146 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=374.9, Medium=1496.9, High=950.9, Very High=72.8  
Back: Low=363.1, Medium=1418.6, High=693.7, Very High=15.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2