



IES ROAD REPORT
PHOTOMETRIC FILENAME : VWPX-L60-830-TFT-XXX-CGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009828
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2024-02-01
[TESTDATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L60-830-TFT-xxx-CGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] CLEAR 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	5496
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1919.17
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	1919.17
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	341.632 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L60-830-TFT-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	323.5	N.A.	5.9
FM - Front-Medium (30-60)	1400.1	N.A.	25.5
FH - Front-High (60-80)	1261.2	N.A.	22.9
FVH - Front-Very High (80-90)	28.6	N.A.	0.5
BL - Back-Low (0-30)	313.6	N.A.	5.7
BM - Back-Medium (30-60)	1294.6	N.A.	23.6
BH - Back-High (60-80)	870.3	N.A.	15.8
BVH - Back-Very High (80-90)	4.2	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5496.1	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322
2.5	703.361	701.351	700.346	698.337	696.327	695.322	695.322	696.327	694.318	693.313
5.0	702.356	699.342	697.332	696.327	695.322	695.322	694.318	695.322	693.313	693.313
7.5	702.356	699.342	696.327	696.327	695.322	695.322	694.318	693.313	691.303	690.298
10.0	705.370	701.351	698.337	699.342	697.332	697.332	696.327	695.322	692.308	690.298
12.5	714.414	709.390	707.380	708.385	706.375	705.370	704.366	701.351	697.332	694.318
15.0	727.476	720.442	719.438	723.457	723.457	721.447	720.442	717.428	712.404	707.380
17.5	744.558	736.519	731.495	736.519	737.524	738.529	740.538	738.529	732.500	727.476
20.0	772.692	765.658	757.620	758.625	756.615	759.630	761.639	762.644	757.620	752.596
22.5	808.865	801.831	791.783	789.774	784.750	786.759	787.764	788.769	785.754	781.735
25.0	848.052	843.028	829.966	825.946	818.913	819.918	817.908	819.918	815.898	813.889
27.5	888.244	880.206	867.143	863.124	854.081	855.086	849.057	849.057	848.052	851.066
30.0	936.475	930.446	913.364	905.326	895.278	891.259	881.211	882.215	880.206	881.211
32.5	990.734	980.686	967.623	956.571	943.508	932.455	919.393	917.383	911.355	908.340
35.0	1049.012	1040.974	1026.907	1014.849	996.763	982.695	965.614	956.571	947.527	937.479
37.5	1103.272	1097.243	1083.176	1073.128	1053.031	1035.950	1015.854	995.758	983.700	972.647
40.0	1155.521	1151.502	1136.430	1127.387	1108.296	1089.204	1067.099	1044.993	1028.916	1013.844
42.5	1209.780	1204.756	1190.689	1179.636	1161.550	1140.449	1119.348	1099.252	1081.166	1068.104
45.0	1259.016	1254.996	1244.948	1233.896	1215.809	1193.704	1173.608	1153.512	1140.449	1131.406
47.5	1305.237	1301.217	1296.193	1289.160	1272.078	1246.958	1228.872	1208.776	1200.737	1199.732
50.0	1331.361	1332.366	1334.376	1338.395	1330.357	1305.237	1292.174	1276.097	1269.064	1272.078
52.5	1337.390	1343.419	1359.496	1377.582	1383.611	1366.529	1362.510	1353.467	1346.433	1350.453
55.0	1348.443	1355.477	1383.611	1416.769	1437.870	1433.851	1436.865	1441.889	1436.865	1437.870
57.5	1400.693	1413.755	1438.875	1482.082	1512.226	1521.269	1530.312	1549.403	1551.413	1545.384
60.0	1461.986	1478.062	1507.202	1560.456	1600.648	1625.768	1643.854	1686.056	1707.157	1700.123
62.5	1470.024	1488.110	1524.283	1577.538	1611.701	1653.903	1699.119	1795.579	1848.834	1852.853
65.0	1418.779	1439.880	1481.077	1535.336	1580.552	1631.797	1694.095	1832.757	1907.112	1919.170
67.5	1388.635	1413.755	1479.067	1528.302	1548.398	1561.461	1615.720	1777.493	1868.930	1870.940
70.0	1341.409	1372.558	1455.957	1517.250	1546.389	1528.302	1541.365	1605.672	1677.013	1675.003
72.5	1133.416	1159.540	1302.222	1399.688	1446.913	1410.741	1455.957	1391.649	1301.217	1246.958
75.0	484.314	501.396	608.909	735.514	848.052	945.518	1074.132	1135.425	989.729	941.499
77.5	174.835	178.855	200.960	226.080	285.363	406.944	587.809	693.313	684.270	710.394
80.0	71.341	73.350	83.398	97.466	123.591	160.768	235.123	304.455	322.541	341.632
82.5	29.139	30.144	35.168	39.187	52.250	69.331	99.475	125.600	132.634	147.706
85.0	11.053	11.053	12.058	14.067	18.086	24.115	36.173	46.221	47.226	55.264
87.5	3.014	3.014	3.014	3.014	3.014	3.014	4.019	4.019	6.029	8.038
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</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322
2.5	692.308	691.303	693.313	694.318	692.308	690.298	690.298	690.298	690.298	690.298
5.0	690.298	689.294	691.303	691.303	689.294	686.279	684.270	684.270	683.265	684.270
7.5	689.294	686.279	688.289	687.284	685.274	681.255	678.241	678.241	677.236	677.236
10.0	689.294	684.270	686.279	687.284	687.284	683.265	679.245	678.241	677.236	676.231
12.5	693.313	690.298	692.308	692.308	693.313	689.294	685.274	683.265	681.255	680.250
15.0	707.380	705.370	706.375	705.370	704.366	701.351	695.322	690.298	688.289	687.284
17.5	725.466	724.462	723.457	721.447	717.428	711.399	707.380	703.361	702.356	701.351
20.0	749.582	748.577	747.572	741.543	736.519	729.486	726.471	725.466	725.466	724.462
22.5	778.721	772.692	770.682	765.658	760.634	756.615	755.610	754.606	754.606	753.601
25.0	811.879	801.831	799.822	795.802	791.783	792.788	792.788	791.783	791.783	787.764
27.5	845.038	832.980	827.956	824.942	823.937	827.956	827.956	828.961	830.970	824.942

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CANDELA TABULATION - (Cont.)

30.0	881.211	867.143	857.095	858.100	859.105	866.138	866.138	868.148	873.172	867.143
32.5	912.359	905.326	890.254	892.263	895.278	904.321	909.345	914.369	920.398	912.359
35.0	941.499	942.503	929.441	932.455	939.489	950.542	957.575	966.619	974.657	965.614
37.5	972.647	979.681	976.667	981.691	991.739	1005.806	1014.849	1024.897	1026.907	1023.892
40.0	1012.839	1024.897	1028.916	1038.964	1048.007	1061.070	1075.137	1085.185	1085.185	1083.176
42.5	1062.075	1075.137	1081.166	1095.233	1106.286	1116.334	1129.396	1137.435	1134.420	1135.425
45.0	1121.358	1130.401	1138.440	1151.502	1162.555	1171.598	1178.632	1178.632	1174.612	1176.622
47.5	1189.684	1190.689	1192.699	1207.771	1217.819	1231.886	1234.900	1228.872	1222.843	1227.867
50.0	1266.049	1261.025	1256.001	1266.049	1276.097	1291.169	1288.155	1275.093	1267.054	1274.088
52.5	1348.443	1339.400	1328.347	1335.381	1339.400	1343.419	1324.328	1301.217	1294.184	1304.232
55.0	1437.870	1433.851	1413.755	1407.726	1399.688	1386.625	1342.414	1301.217	1289.160	1301.217
57.5	1552.418	1546.389	1512.226	1496.149	1469.019	1439.880	1374.568	1328.347	1318.299	1322.318
60.0	1705.147	1696.104	1639.835	1602.658	1561.461	1512.226	1434.856	1389.640	1380.597	1381.601
62.5	1843.810	1811.656	1713.186	1637.826	1585.576	1518.254	1437.870	1391.649	1380.597	1382.606
65.0	1901.084	1844.815	1718.210	1622.754	1570.504	1505.192	1437.870	1394.664	1386.625	1382.606
67.5	1870.940	1803.618	1658.927	1590.600	1578.542	1531.317	1467.010	1395.669	1379.592	1378.587
70.0	1714.191	1654.907	1585.576	1587.586	1618.734	1585.576	1494.139	1378.587	1350.453	1355.477
72.5	1298.203	1428.827	1532.322	1504.187	1536.341	1481.077	1342.414	1179.636	1144.468	1172.603
75.0	1010.830	1185.665	1164.564	1054.036	891.259	787.764	618.957	501.396	504.410	500.391
77.5	699.342	709.390	625.991	468.237	298.426	263.258	221.056	190.912	194.931	190.912
80.0	332.589	316.512	250.195	187.898	137.658	123.591	101.485	88.422	87.418	83.398
82.5	138.663	136.653	112.538	86.413	66.317	54.259	45.216	39.187	40.192	40.192
85.0	53.254	55.264	46.221	36.173	27.130	23.110	19.091	18.086	17.082	17.082
87.5	10.048	13.062	10.048	9.043	8.038	7.034	6.029	5.024	5.024	5.024
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322	695.322
2.5	690.298	689.294	689.294	688.289	689.294	692.308	690.298	690.298	692.308	695.322
5.0	683.265	682.260	683.265	685.274	685.274	688.289	687.284	687.284	689.294	691.303
7.5	676.231	676.231	679.245	681.255	682.260	684.270	684.270	683.265	685.274	688.289
10.0	676.231	677.236	680.250	682.260	681.255	682.260	682.260	682.260	684.270	686.279
12.5	681.255	683.265	687.284	688.289	687.284	684.270	684.270	684.270	687.284	690.298
15.0	689.294	693.313	696.327	699.342	698.337	697.332	696.327	696.327	697.332	701.351
17.5	701.351	702.356	707.380	712.404	712.404	714.414	713.409	712.404	712.404	715.418
20.0	722.452	721.447	723.457	730.490	731.495	733.505	733.505	734.510	732.500	732.500
22.5	750.586	749.582	749.582	754.606	756.615	756.615	756.615	757.620	755.610	753.601
25.0	788.769	786.759	781.735	784.750	784.750	783.745	786.759	785.754	783.745	779.726
27.5	827.956	822.932	816.903	816.903	812.884	811.879	820.922	817.908	812.884	804.846
30.0	867.143	860.110	852.071	847.047	843.028	844.033	850.062	844.033	836.999	827.956
32.5	909.345	898.292	890.254	882.215	875.182	878.196	875.182	867.143	859.105	853.076
35.0	960.590	947.527	934.465	924.417	911.355	906.331	900.302	886.235	880.206	875.182
37.5	1019.873	1005.806	992.743	972.647	951.547	941.499	927.431	914.369	905.326	901.307
40.0	1078.152	1064.084	1051.022	1027.911	997.767	977.671	960.590	948.532	938.484	936.475
42.5	1130.401	1115.329	1105.281	1078.152	1050.017	1021.883	1000.782	988.724	979.681	979.681
45.0	1179.636	1170.593	1155.521	1127.387	1099.252	1070.113	1047.003	1036.955	1029.921	1025.902
47.5	1233.896	1229.876	1209.780	1179.636	1150.497	1118.344	1102.267	1088.200	1081.166	1073.128
50.0	1285.141	1287.150	1267.054	1236.910	1206.766	1173.608	1164.564	1148.488	1135.425	1125.377
52.5	1326.337	1336.385	1326.337	1293.179	1272.078	1243.944	1230.881	1208.776	1198.728	1186.670
55.0	1335.381	1366.529	1376.577	1359.496	1346.433	1322.318	1305.237	1280.117	1272.078	1263.035
57.5	1355.477	1391.649	1427.822	1431.841	1424.808	1412.750	1396.673	1365.525	1356.481	1351.457
60.0	1407.726	1441.889	1496.149	1522.274	1522.274	1534.331	1527.298	1494.139	1481.077	1471.029
62.5	1405.717	1444.904	1503.182	1555.432	1600.648	1654.907	1667.970	1640.840	1631.797	1606.677
65.0	1393.659	1422.798	1485.096	1549.403	1597.634	1702.133	1758.402	1757.397	1719.215	1672.994

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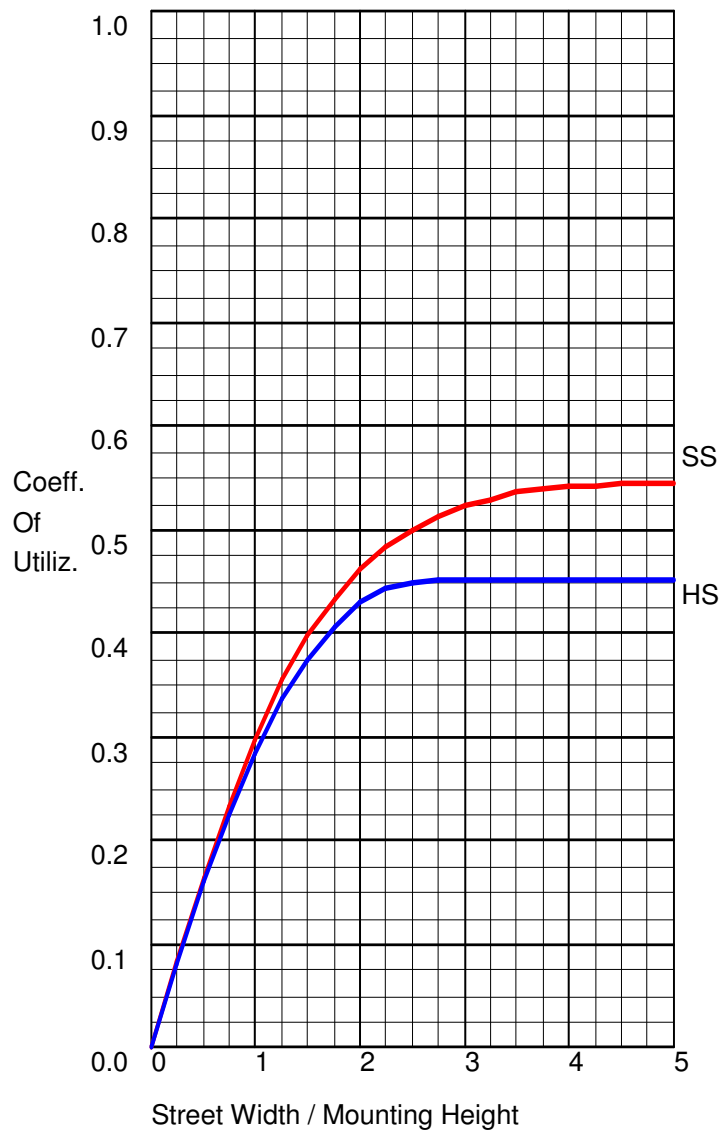
CANDELA TABULATION - (Cont.)

67.5	1407.726	1450.933	1483.086	1504.187	1545.384	1695.099	1771.464	1659.931	1542.370	1483.086
70.0	1406.721	1483.086	1512.226	1500.168	1491.125	1574.523	1385.621	1271.073	1378.587	833.985
72.5	1290.165	1428.827	1504.187	1461.986	1488.110	1086.190	959.585	674.221	125.600	23.110
75.0	623.981	785.754	957.575	1000.782	912.359	756.615	173.831	17.082	4.019	3.014
77.5	223.066	257.229	312.493	373.786	434.074	12.058	4.019	3.014	2.010	2.010
80.0	99.475	112.538	106.509	86.413	33.158	2.010	2.010	1.005	1.005	1.005
82.5	43.206	43.206	28.134	12.058	2.010	1.005	1.005	1.005	1.005	1.005
85.0	18.086	10.048	5.024	1.005	1.005	1.005	1.005	0.000	0.000	0.000
87.5	4.019	1.005	1.005	1.005	1.005	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	695.322	695.322	695.322	695.322	695.322	695.322	695.322
2.5	694.318	695.322	697.332	697.332	699.342	697.332	694.318
5.0	690.298	690.298	692.308	692.308	693.313	692.308	688.289
7.5	686.279	686.279	687.284	686.279	687.284	686.279	682.260
10.0	685.274	685.274	685.274	686.279	688.289	686.279	684.270
12.5	690.298	692.308	690.298	692.308	694.318	692.308	690.298
15.0	702.356	702.356	700.346	701.351	700.346	697.332	696.327
17.5	714.414	713.409	708.385	707.380	706.375	706.375	705.370
20.0	730.490	728.481	721.447	721.447	722.452	723.457	724.462
22.5	750.586	747.572	739.534	740.538	743.553	746.567	750.586
25.0	774.702	767.668	762.644	763.649	767.668	772.692	775.706
27.5	794.798	788.769	784.750	786.759	790.778	796.807	800.826
30.0	816.903	812.884	812.884	814.894	819.918	827.956	832.980
32.5	844.033	840.014	840.014	844.033	851.066	861.114	867.143
35.0	872.167	866.138	872.167	878.196	888.244	899.297	907.335
37.5	900.302	903.316	913.364	922.407	932.455	946.523	957.575
40.0	937.479	946.523	955.566	967.623	981.691	997.767	1008.820
42.5	981.691	991.739	1002.791	1013.844	1027.911	1045.998	1058.055
45.0	1027.911	1036.955	1048.007	1059.060	1073.128	1092.219	1102.267
47.5	1074.132	1079.156	1093.224	1103.272	1117.339	1136.430	1143.464
50.0	1125.377	1128.392	1141.454	1151.502	1164.564	1181.646	1185.665
52.5	1185.665	1185.665	1193.704	1201.742	1205.761	1216.814	1217.819
55.0	1256.001	1249.972	1250.977	1251.982	1243.944	1241.934	1237.915
57.5	1339.400	1330.357	1322.318	1306.241	1275.093	1257.006	1248.968
60.0	1456.962	1436.865	1408.731	1366.529	1314.280	1298.203	1292.174
62.5	1556.437	1497.154	1442.894	1386.625	1335.381	1319.304	1310.261
65.0	1574.523	1498.158	1430.837	1353.467	1238.920	1087.195	1086.190
67.5	1469.019	1150.497	757.620	417.997	210.003	121.581	90.432
70.0	286.368	143.687	17.082	6.029	4.019	4.019	4.019
72.5	6.029	4.019	3.014	3.014	3.014	3.014	2.010
75.0	3.014	2.010	2.010	2.010	1.005	1.005	1.005
77.5	1.005	1.005	1.005	1.005	1.005	0.000	0.000
80.0	1.005	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
85.0	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
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

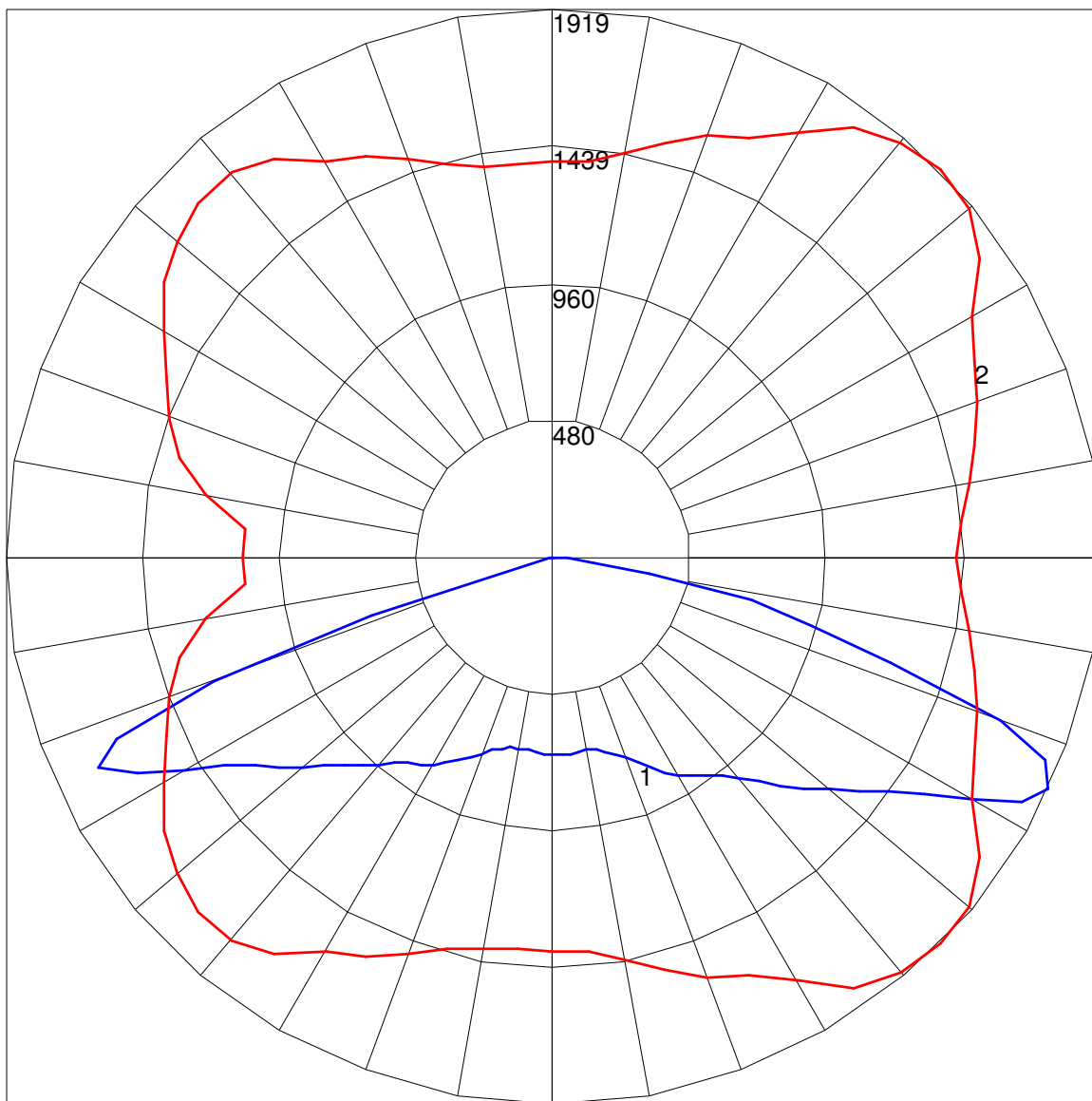
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

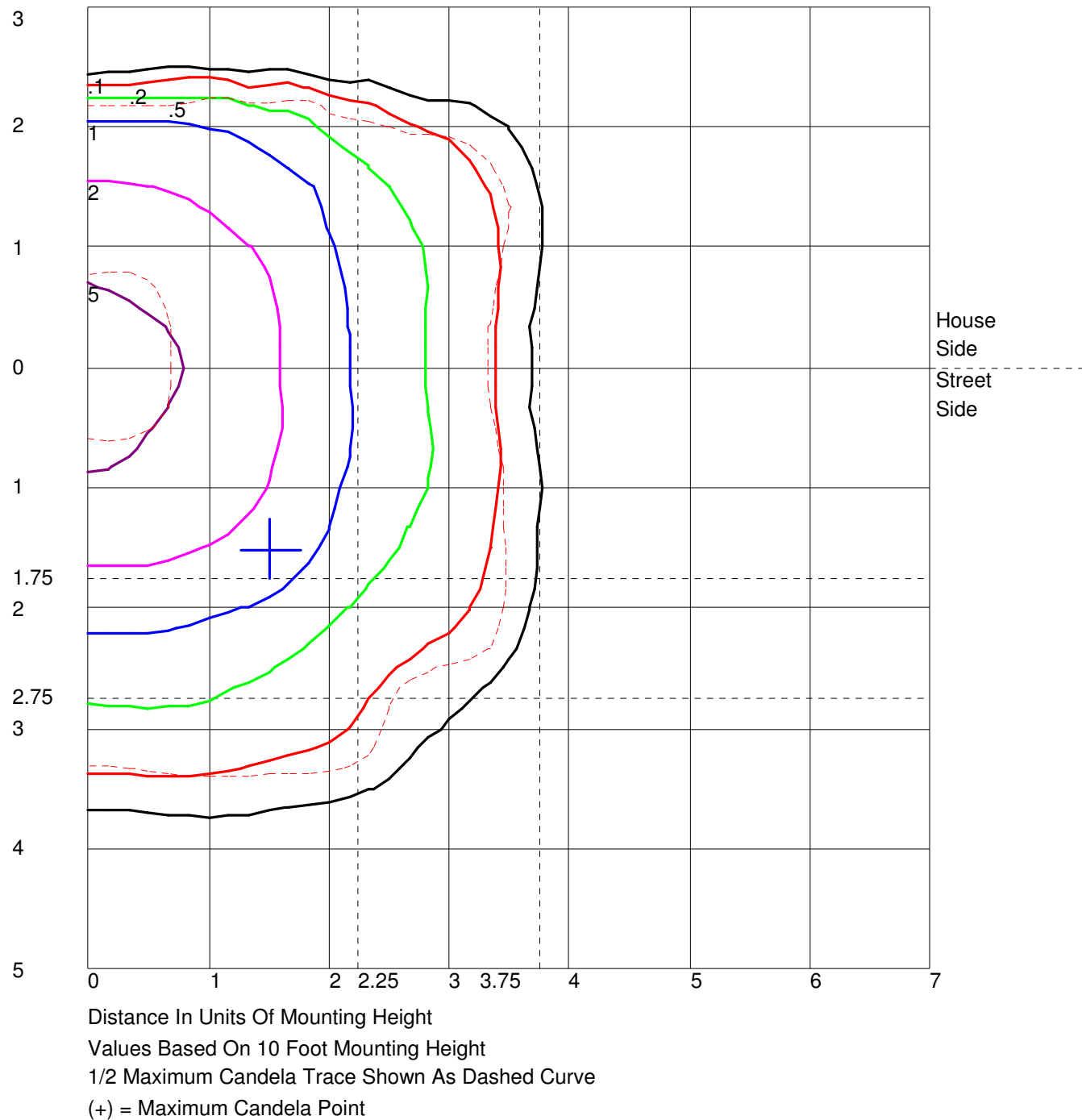
	Lumens	Percent Of Luminaire
Downward Street Side	3013.4	54.8
Downward House Side	2482.7	45.2
Downward Total	5496.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5496.1	100.0

POLAR GRAPH

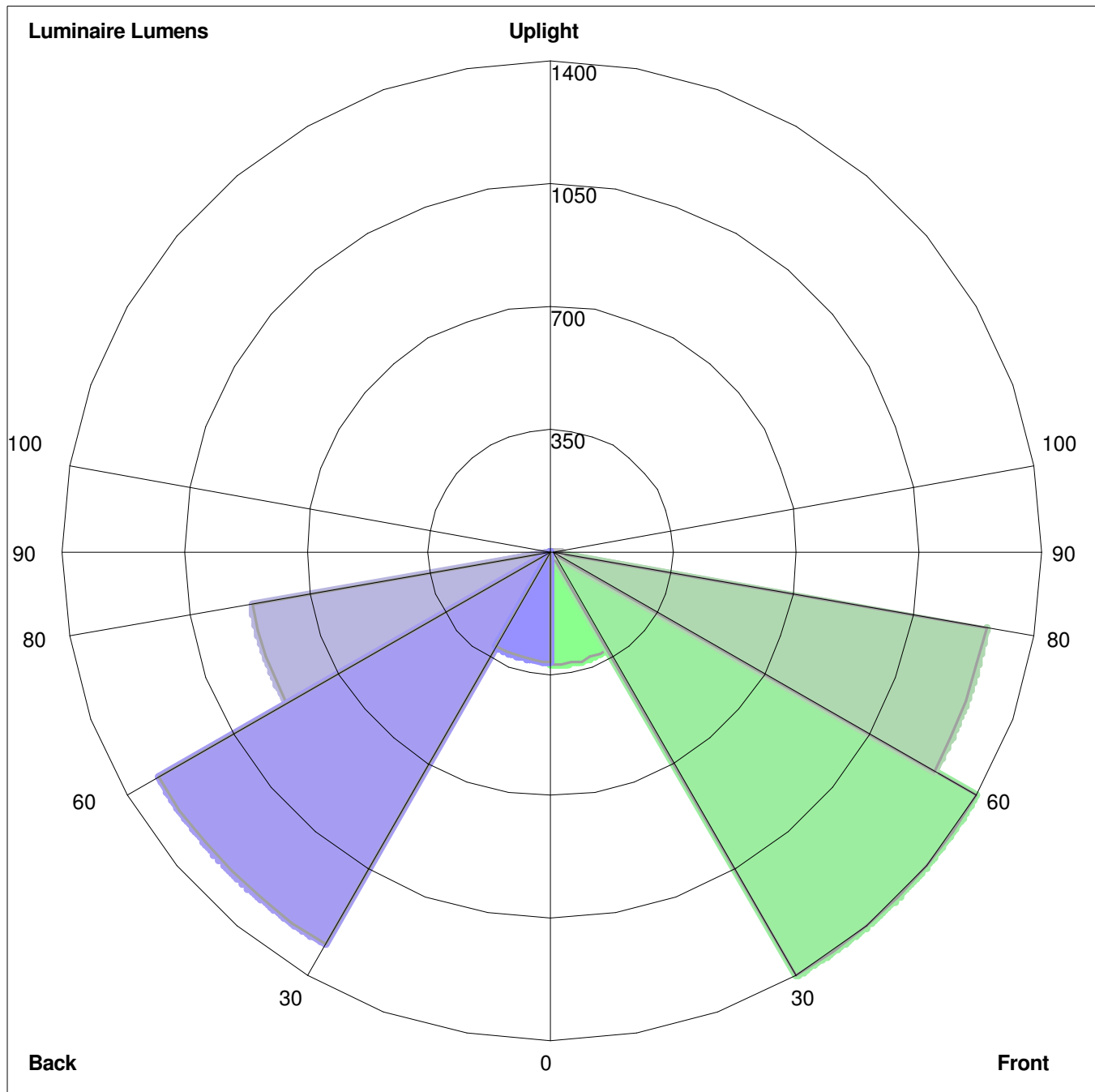


Maximum Candela = 1919.17 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=323.5, Medium=1400.1, High=1261.2, Very High=28.6
Back: Low=313.6, Medium=1294.6, High=870.3, Very High=4.2
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2