



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-840-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-L60-840-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	5816
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2030.748
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2030.748
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	361.494 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L60-840-TFT-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	342.3	N.A.	5.9
FM - Front-Medium (30-60)	1481.5	N.A.	25.5
FH - Front-High (60-80)	1334.6	N.A.	22.9
FVH - Front-Very High (80-90)	30.3	N.A.	0.5
BL - Back-Low (0-30)	331.8	N.A.	5.7
BM - Back-Medium (30-60)	1369.9	N.A.	23.6
BH - Back-High (60-80)	920.9	N.A.	15.8
BVH - Back-Very High (80-90)	4.5	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	5815.8	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	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748
2.5	744.253	742.127	741.064	738.937	736.811	735.748	735.748	736.811	734.684	733.621
5.0	743.190	740.000	737.874	736.811	735.748	735.748	734.684	735.748	733.621	733.621
7.5	743.190	740.000	736.811	736.811	735.748	735.748	734.684	733.621	731.495	730.431
10.0	746.380	742.127	738.937	740.000	737.874	737.874	736.811	735.748	732.558	730.431
12.5	755.949	750.633	748.506	749.569	747.443	746.380	745.316	742.127	737.874	734.684
15.0	769.771	762.328	761.265	765.518	765.518	763.391	762.328	759.138	753.822	748.506
17.5	787.845	779.339	774.023	779.339	780.403	781.466	783.592	781.466	775.087	769.771
20.0	817.615	810.173	801.667	802.730	800.604	803.794	805.920	806.983	801.667	796.351
22.5	855.891	848.449	837.817	835.690	830.374	832.500	833.564	834.627	831.437	827.184
25.0	897.357	892.041	878.219	873.966	866.523	867.587	865.460	867.587	863.334	861.207
27.5	939.886	931.380	917.558	913.305	903.736	904.799	898.420	898.420	897.357	900.546
30.0	990.920	984.541	966.466	957.960	947.328	943.075	932.443	933.506	931.380	932.443
32.5	1048.334	1037.702	1023.880	1012.184	998.363	986.667	972.845	970.719	964.340	961.150
35.0	1110.001	1101.495	1086.610	1073.851	1054.713	1039.828	1021.753	1012.184	1002.615	991.983
37.5	1167.414	1161.035	1146.150	1135.518	1114.253	1096.179	1074.914	1053.650	1040.891	1029.196
40.0	1222.702	1218.449	1202.501	1192.932	1172.731	1152.529	1129.139	1105.748	1088.736	1072.788
42.5	1280.116	1274.800	1259.914	1248.219	1229.081	1206.754	1184.426	1163.162	1144.024	1130.202
45.0	1332.213	1327.960	1317.328	1305.633	1286.495	1263.104	1241.840	1220.575	1206.754	1197.185
47.5	1381.121	1376.869	1371.552	1364.110	1346.035	1319.455	1300.317	1279.052	1270.547	1269.483
50.0	1408.765	1409.828	1411.955	1416.208	1407.702	1381.121	1367.300	1350.288	1342.846	1346.035
52.5	1415.144	1421.524	1438.535	1457.673	1464.052	1445.978	1441.725	1432.156	1424.713	1428.966
55.0	1426.840	1434.282	1464.052	1499.139	1521.466	1517.213	1520.403	1525.719	1520.403	1521.466
57.5	1482.127	1495.949	1522.530	1568.248	1600.145	1609.713	1619.282	1639.484	1641.610	1635.231
60.0	1546.984	1563.995	1594.828	1651.179	1693.708	1720.288	1739.426	1784.081	1806.409	1798.966
62.5	1555.489	1574.627	1612.903	1669.254	1705.403	1750.058	1797.903	1899.972	1956.323	1960.576
65.0	1501.265	1523.593	1567.185	1624.599	1672.443	1726.668	1792.587	1939.311	2017.990	2030.748
67.5	1469.369	1495.949	1565.058	1617.156	1638.420	1652.242	1709.656	1880.834	1977.587	1979.714
70.0	1419.397	1452.357	1540.604	1605.461	1636.294	1617.156	1630.978	1699.024	1774.512	1772.386
72.5	1199.311	1226.955	1377.932	1481.064	1531.035	1492.759	1540.604	1472.558	1376.869	1319.455
75.0	512.472	530.546	644.311	778.276	897.357	1000.489	1136.581	1201.437	1047.271	996.236
77.5	185.000	189.253	212.644	239.224	301.954	430.604	621.983	733.621	724.052	751.696
80.0	75.489	77.615	88.247	103.132	130.776	170.115	248.793	322.155	341.293	361.494
82.5	30.833	31.897	37.213	41.466	55.287	73.362	105.259	132.902	140.345	156.293
85.0	11.695	11.695	12.759	14.885	19.138	25.517	38.276	48.908	49.971	58.477
87.5	3.190	3.190	3.190	3.190	3.190	3.190	4.253	4.253	6.379	8.506
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	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748
2.5	732.558	731.495	733.621	734.684	732.558	730.431	730.431	730.431	730.431	730.431
5.0	730.431	729.368	731.495	731.495	729.368	726.179	724.052	724.052	722.989	724.052
7.5	729.368	726.179	728.305	727.242	725.115	720.862	717.673	717.673	716.610	716.610
10.0	729.368	724.052	726.179	727.242	727.242	722.989	718.736	717.673	716.610	715.546
12.5	733.621	730.431	732.558	732.558	733.621	729.368	725.115	722.989	720.862	719.799
15.0	748.506	746.380	747.443	746.380	745.316	742.127	735.748	730.431	728.305	727.242
17.5	767.644	766.581	765.518	763.391	759.138	752.759	748.506	744.253	743.190	742.127
20.0	793.161	792.098	791.035	784.656	779.339	771.897	768.707	767.644	767.644	766.581
22.5	823.995	817.615	815.489	810.173	804.857	800.604	799.541	798.477	798.477	797.414
25.0	859.081	848.449	846.322	842.069	837.817	838.880	838.880	837.817	837.817	833.564
27.5	894.167	881.409	876.092	872.903	871.840	876.092	876.092	877.156	879.282	872.903

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CANDELA TABULATION - (Cont.)

30.0	932.443	917.558	906.926	907.989	909.052	916.495	916.495	918.621	923.937	917.558
32.5	965.403	957.960	942.012	944.138	947.328	956.897	962.213	967.529	973.909	965.403
35.0	996.236	997.299	983.478	986.667	994.110	1005.805	1013.248	1022.817	1031.322	1021.753
37.5	1029.196	1036.638	1033.449	1038.765	1049.397	1064.282	1073.851	1084.483	1086.610	1083.420
40.0	1071.725	1084.483	1088.736	1099.368	1108.937	1122.759	1137.644	1148.276	1148.276	1146.150
42.5	1123.822	1137.644	1144.024	1158.909	1170.604	1181.236	1195.058	1203.564	1200.374	1201.437
45.0	1186.552	1196.121	1204.627	1218.449	1230.144	1239.713	1247.156	1247.156	1242.903	1245.029
47.5	1258.851	1259.914	1262.041	1277.989	1288.621	1303.506	1306.696	1300.317	1293.937	1299.254
50.0	1339.656	1334.340	1329.024	1339.656	1350.288	1366.236	1363.047	1349.225	1340.719	1348.162
52.5	1426.840	1417.271	1405.575	1413.018	1417.271	1421.524	1401.323	1376.869	1369.426	1380.058
55.0	1521.466	1517.213	1495.949	1489.570	1481.064	1467.242	1420.461	1376.869	1364.110	1376.869
57.5	1642.673	1636.294	1600.145	1583.133	1554.426	1523.593	1454.484	1405.575	1394.943	1399.196
60.0	1804.283	1794.714	1735.173	1695.834	1652.242	1600.145	1518.277	1470.432	1460.863	1461.926
62.5	1951.007	1916.984	1812.788	1733.047	1677.760	1606.524	1521.466	1472.558	1460.863	1462.989
65.0	2011.610	1952.070	1818.104	1717.099	1661.811	1592.702	1521.466	1475.748	1467.242	1462.989
67.5	1979.714	1908.478	1755.374	1683.076	1670.317	1620.346	1552.300	1476.811	1459.800	1458.736
70.0	1813.852	1751.122	1677.760	1679.886	1712.846	1677.760	1581.007	1458.736	1428.966	1434.282
72.5	1373.679	1511.897	1621.409	1591.639	1625.662	1567.185	1420.461	1248.219	1211.006	1240.777
75.0	1069.598	1254.598	1232.271	1115.317	943.075	833.564	654.943	530.546	533.736	529.483
77.5	740.000	750.633	662.385	495.460	315.776	278.563	233.908	202.012	206.264	202.012
80.0	351.925	334.914	264.742	198.822	145.661	130.776	107.385	93.563	92.500	88.247
82.5	146.724	144.598	119.081	91.437	70.172	57.414	47.845	41.466	42.529	42.529
85.0	56.351	58.477	48.908	38.276	28.707	24.454	20.201	19.138	18.075	18.075
87.5	10.632	13.822	10.632	9.569	8.506	7.443	6.379	5.316	5.316	5.316
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	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748	735.748
2.5	730.431	729.368	729.368	728.305	729.368	732.558	730.431	730.431	732.558	735.748
5.0	722.989	721.926	722.989	725.115	725.115	728.305	727.242	727.242	729.368	731.495
7.5	715.546	715.546	718.736	720.862	721.926	724.052	724.052	722.989	725.115	728.305
10.0	715.546	716.610	719.799	721.926	720.862	721.926	721.926	721.926	724.052	726.179
12.5	720.862	722.989	727.242	728.305	727.242	724.052	724.052	724.052	727.242	730.431
15.0	729.368	733.621	736.811	740.000	738.937	737.874	736.811	736.811	737.874	742.127
17.5	742.127	743.190	748.506	753.822	753.822	755.949	754.885	753.822	753.822	757.012
20.0	764.454	763.391	765.518	772.960	774.023	776.150	776.150	777.213	775.087	775.087
22.5	794.225	793.161	793.161	798.477	800.604	800.604	800.604	801.667	799.541	797.414
25.0	834.627	832.500	827.184	830.374	830.374	829.311	832.500	831.437	829.311	825.058
27.5	876.092	870.776	864.397	864.397	860.144	859.081	868.650	865.460	860.144	851.638
30.0	917.558	910.115	901.610	896.294	892.041	893.104	899.483	893.104	885.661	876.092
32.5	962.213	950.518	942.012	933.506	926.064	929.253	926.064	917.558	909.052	902.673
35.0	1016.437	1002.615	988.794	978.161	964.340	959.023	952.644	937.759	931.380	926.064
37.5	1079.167	1064.282	1050.460	1029.196	1006.868	996.236	981.351	967.529	957.960	953.707
40.0	1140.834	1125.949	1112.127	1087.673	1055.776	1034.512	1016.437	1003.679	993.047	990.920
42.5	1196.121	1180.173	1169.541	1140.834	1111.064	1081.294	1058.966	1046.207	1036.638	1036.638
45.0	1248.219	1238.650	1222.702	1192.932	1163.162	1132.328	1107.874	1097.242	1089.799	1085.547
47.5	1305.633	1301.380	1280.116	1248.219	1217.386	1183.363	1166.351	1151.466	1144.024	1135.518
50.0	1359.857	1361.983	1340.719	1308.823	1276.926	1241.840	1232.271	1215.259	1201.437	1190.805
52.5	1403.449	1414.081	1403.449	1368.363	1346.035	1316.265	1302.443	1279.052	1268.420	1255.662
55.0	1413.018	1445.978	1456.610	1438.535	1424.713	1399.196	1381.121	1354.541	1346.035	1336.466
57.5	1434.282	1472.558	1510.834	1515.087	1507.644	1494.886	1477.874	1444.915	1435.346	1430.029
60.0	1489.570	1525.719	1583.133	1610.777	1610.777	1623.535	1616.093	1581.007	1567.185	1556.553
62.5	1487.443	1528.909	1590.576	1645.863	1693.708	1751.122	1764.943	1736.237	1726.668	1700.087
65.0	1474.685	1505.518	1571.438	1639.484	1690.518	1801.093	1860.633	1859.570	1819.168	1770.260

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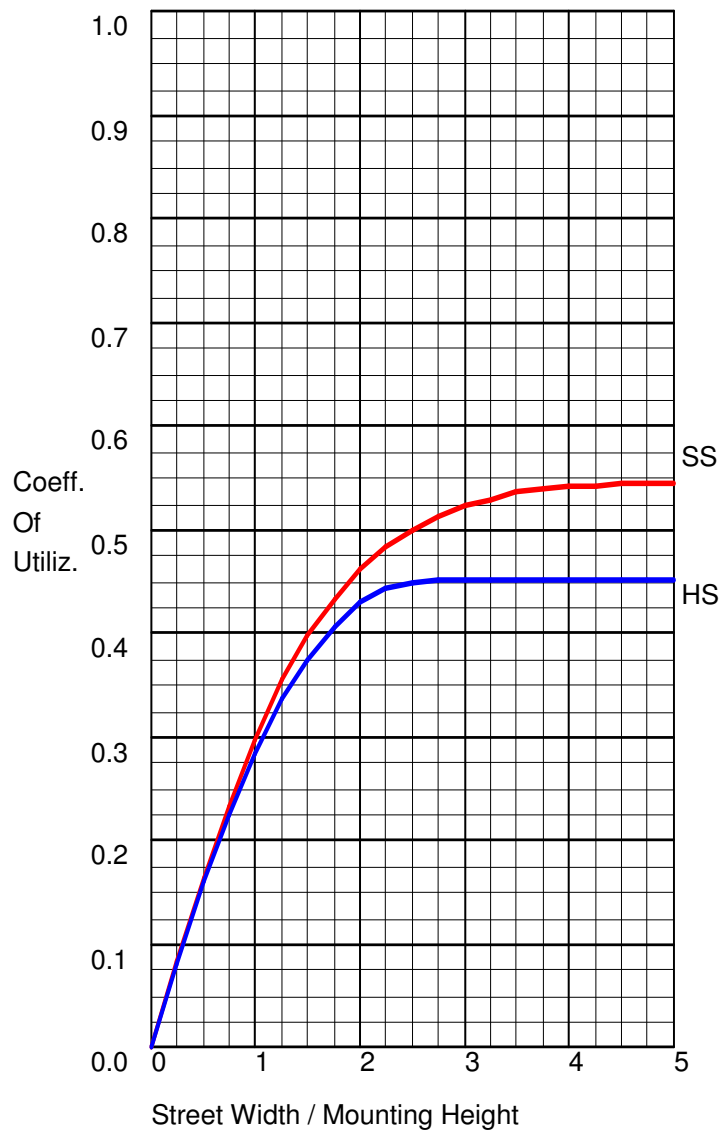
CANDELA TABULATION - (Cont.)

67.5	1489.570	1535.288	1569.311	1591.639	1635.231	1793.650	1874.455	1756.438	1632.041	1569.311
70.0	1488.507	1569.311	1600.145	1587.386	1577.817	1666.064	1466.179	1344.972	1458.736	882.472
72.5	1365.173	1511.897	1591.639	1546.984	1574.627	1149.340	1015.374	713.420	132.902	24.454
75.0	660.259	831.437	1013.248	1058.966	965.403	800.604	183.937	18.075	4.253	3.190
77.5	236.035	272.184	330.661	395.517	459.311	12.759	4.253	3.190	2.126	2.126
80.0	105.259	119.081	112.701	91.437	35.086	2.126	2.126	1.063	1.063	1.063
82.5	45.718	45.718	29.770	12.759	2.126	1.063	1.063	1.063	1.063	1.063
85.0	19.138	10.632	5.316	1.063	1.063	1.063	1.063	0.000	0.000	0.000
87.5	4.253	1.063	1.063	1.063	1.063	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	735.748	735.748	735.748	735.748	735.748	735.748	735.748
2.5	734.684	735.748	737.874	737.874	740.000	737.874	734.684
5.0	730.431	730.431	732.558	732.558	733.621	732.558	728.305
7.5	726.179	726.179	727.242	726.179	727.242	726.179	721.926
10.0	725.115	725.115	725.115	726.179	728.305	726.179	724.052
12.5	730.431	732.558	730.431	732.558	734.684	732.558	730.431
15.0	743.190	743.190	741.064	742.127	741.064	737.874	736.811
17.5	755.949	754.885	749.569	748.506	747.443	747.443	746.380
20.0	772.960	770.834	763.391	763.391	764.454	765.518	766.581
22.5	794.225	791.035	782.529	783.592	786.782	789.972	794.225
25.0	819.742	812.299	806.983	808.046	812.299	817.615	820.805
27.5	841.006	834.627	830.374	832.500	836.753	843.133	847.386
30.0	864.397	860.144	860.144	862.271	867.587	876.092	881.409
32.5	893.104	888.851	888.851	893.104	900.546	911.179	917.558
35.0	922.874	916.495	922.874	929.253	939.886	951.581	960.087
37.5	952.644	955.834	966.466	976.035	986.667	1001.552	1013.248
40.0	991.983	1001.552	1011.121	1023.880	1038.765	1055.776	1067.472
42.5	1038.765	1049.397	1061.093	1072.788	1087.673	1106.811	1119.570
45.0	1087.673	1097.242	1108.937	1120.633	1135.518	1155.719	1166.351
47.5	1136.581	1141.897	1156.782	1167.414	1182.299	1202.501	1209.943
50.0	1190.805	1193.995	1207.817	1218.449	1232.271	1250.345	1254.598
52.5	1254.598	1254.598	1263.104	1271.610	1275.863	1287.558	1288.621
55.0	1329.024	1322.644	1323.708	1324.771	1316.265	1314.139	1309.886
57.5	1417.271	1407.702	1399.196	1382.185	1349.225	1330.087	1321.581
60.0	1541.667	1520.403	1490.633	1445.978	1390.690	1373.679	1367.300
62.5	1646.926	1584.196	1526.782	1467.242	1413.018	1396.006	1386.438
65.0	1666.064	1585.259	1514.024	1432.156	1310.949	1150.403	1149.340
67.5	1554.426	1217.386	801.667	442.299	222.213	128.649	95.690
70.0	303.017	152.040	18.075	6.379	4.253	4.253	4.253
72.5	6.379	4.253	3.190	3.190	3.190	3.190	2.126
75.0	3.190	2.126	2.126	2.126	1.063	1.063	1.063
77.5	1.063	1.063	1.063	1.063	1.063	0.000	0.000
80.0	1.063	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

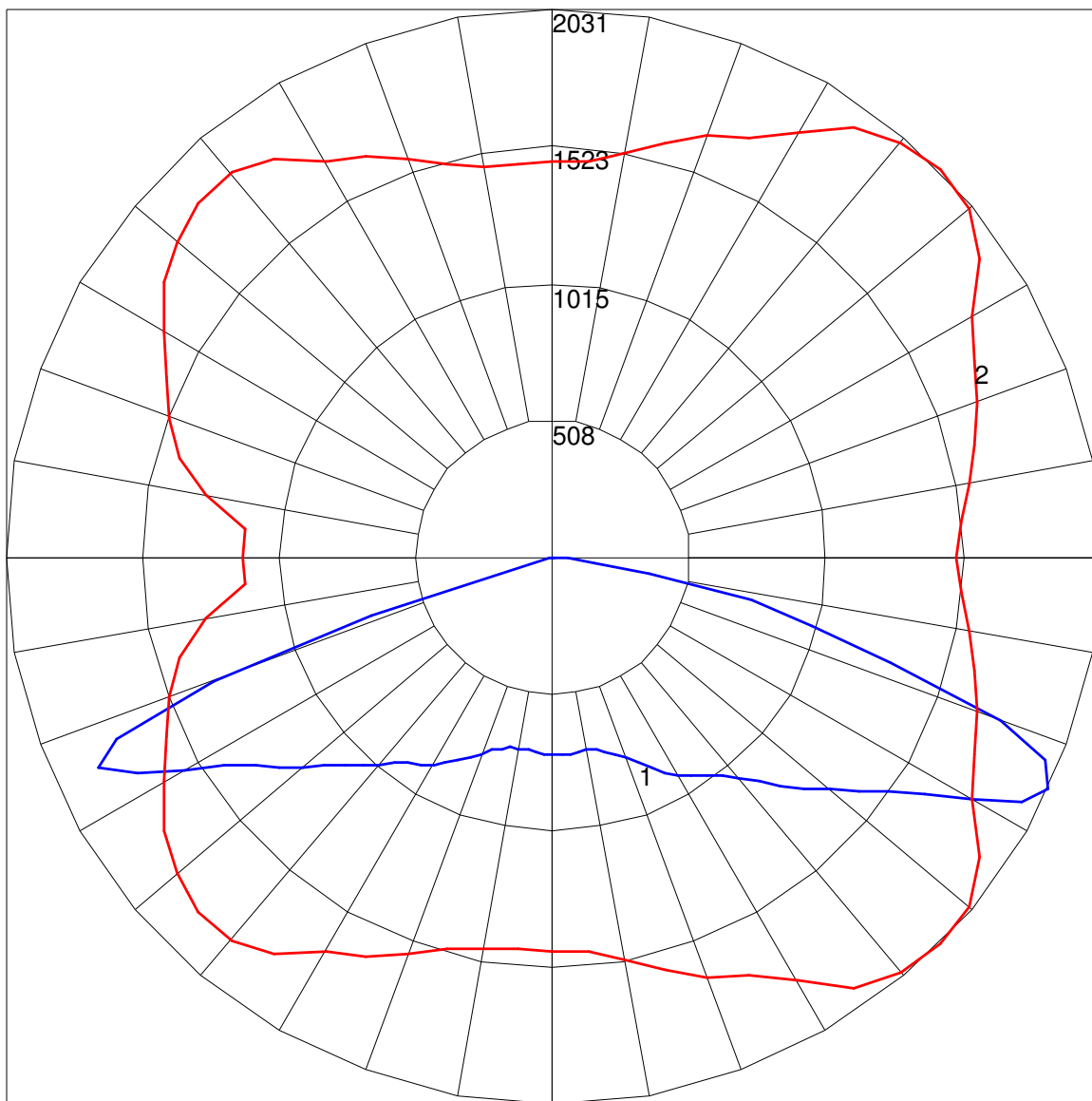
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

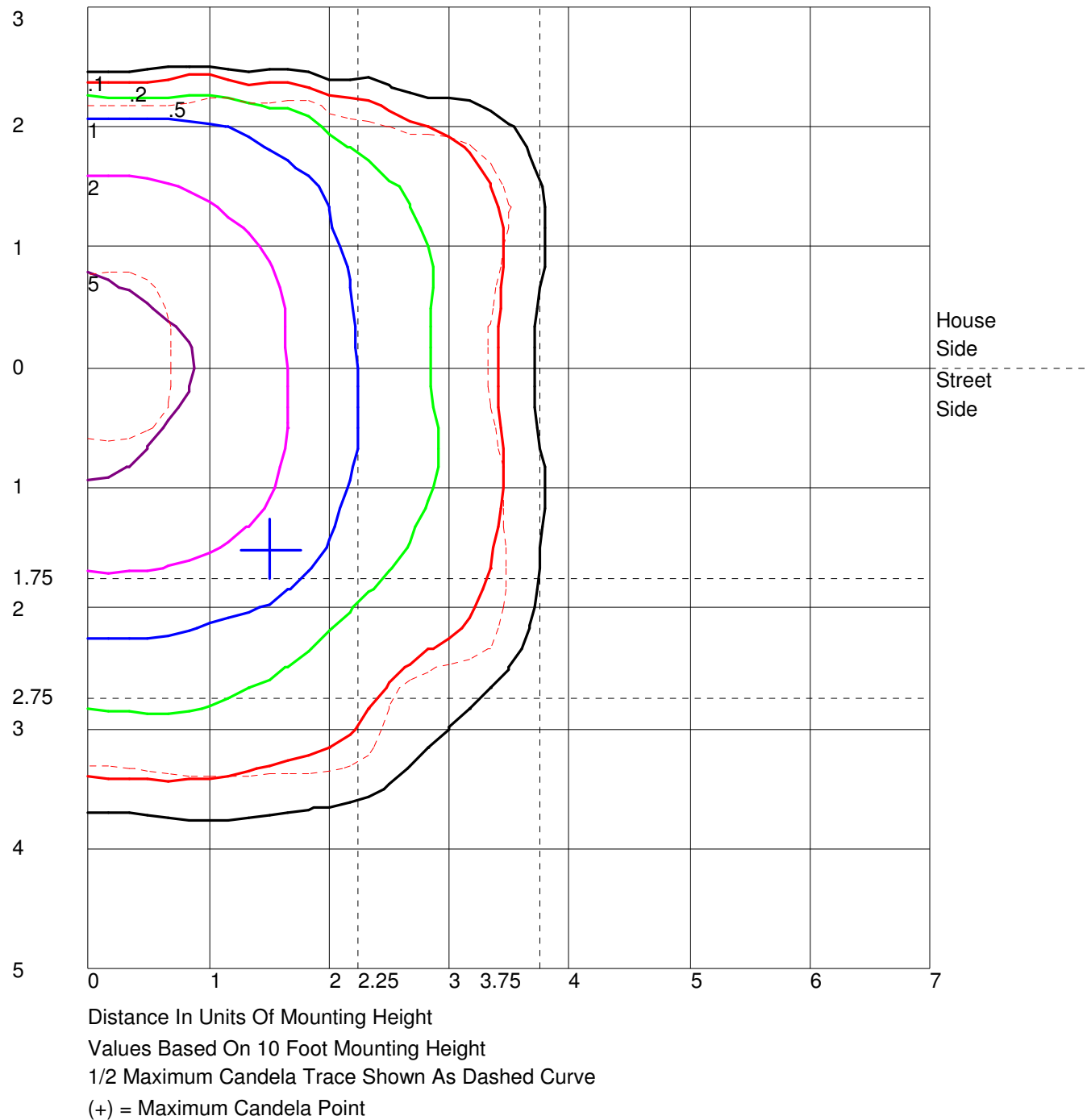
	Lumens	Percent Of Luminaire
Downward Street Side	3188.6	54.8
Downward House Side	2627.0	45.2
Downward Total	5815.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5815.6	100.0

POLAR GRAPH

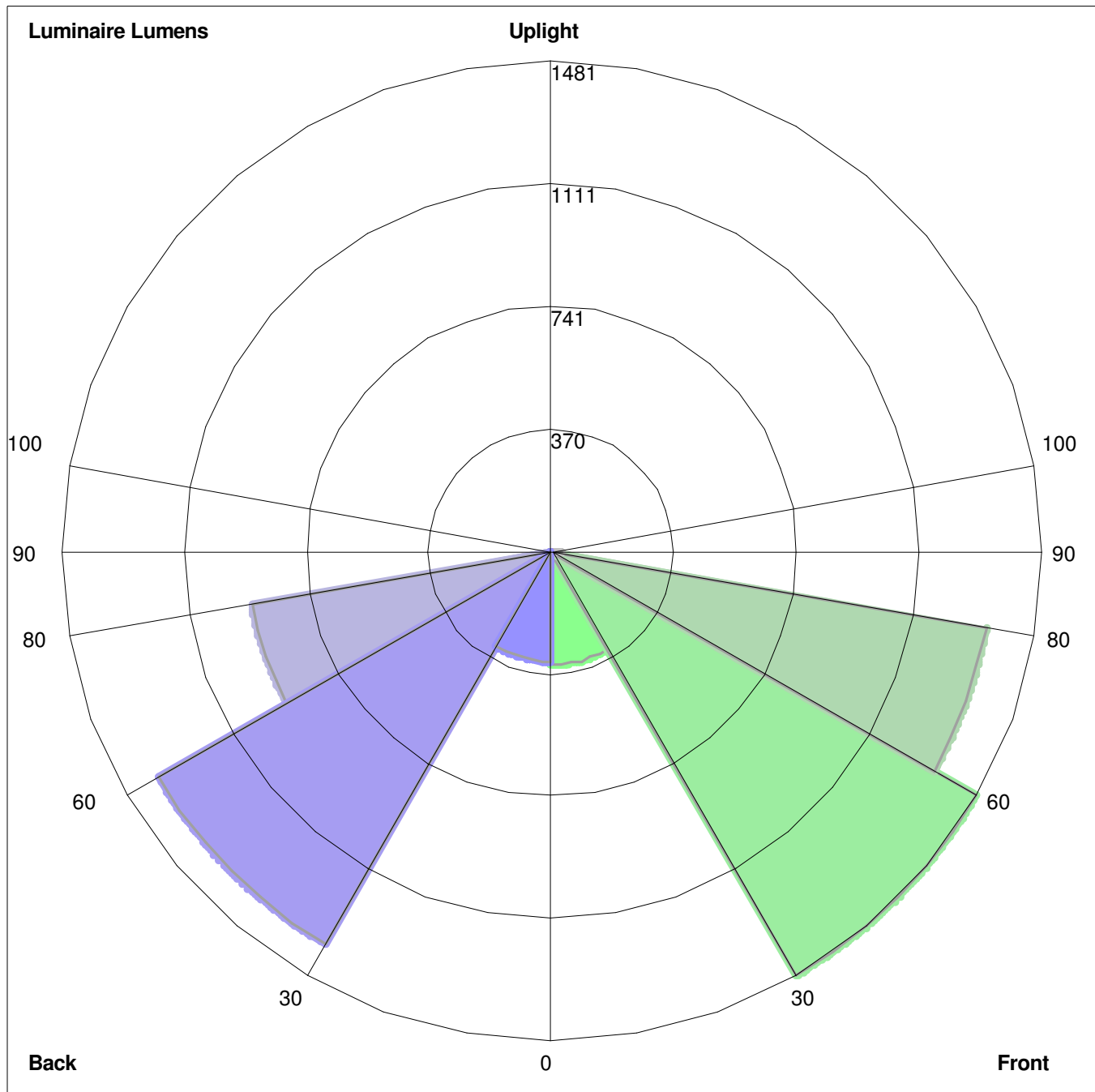


Maximum Candela = 2030.748 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=342.3, Medium=1481.5, High=1334.6, Very High=30.3
Back: Low=331.8, Medium=1369.9, High=920.9, Very High=4.5
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2