

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMARK

Report Number: P511366

Luminaire Tested: **WPMLED15S-40W_SWITCH-4000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED15S-40W_SWITCH-4000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5659 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.13m x L: 0.26m x H: 0.9m)
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G4

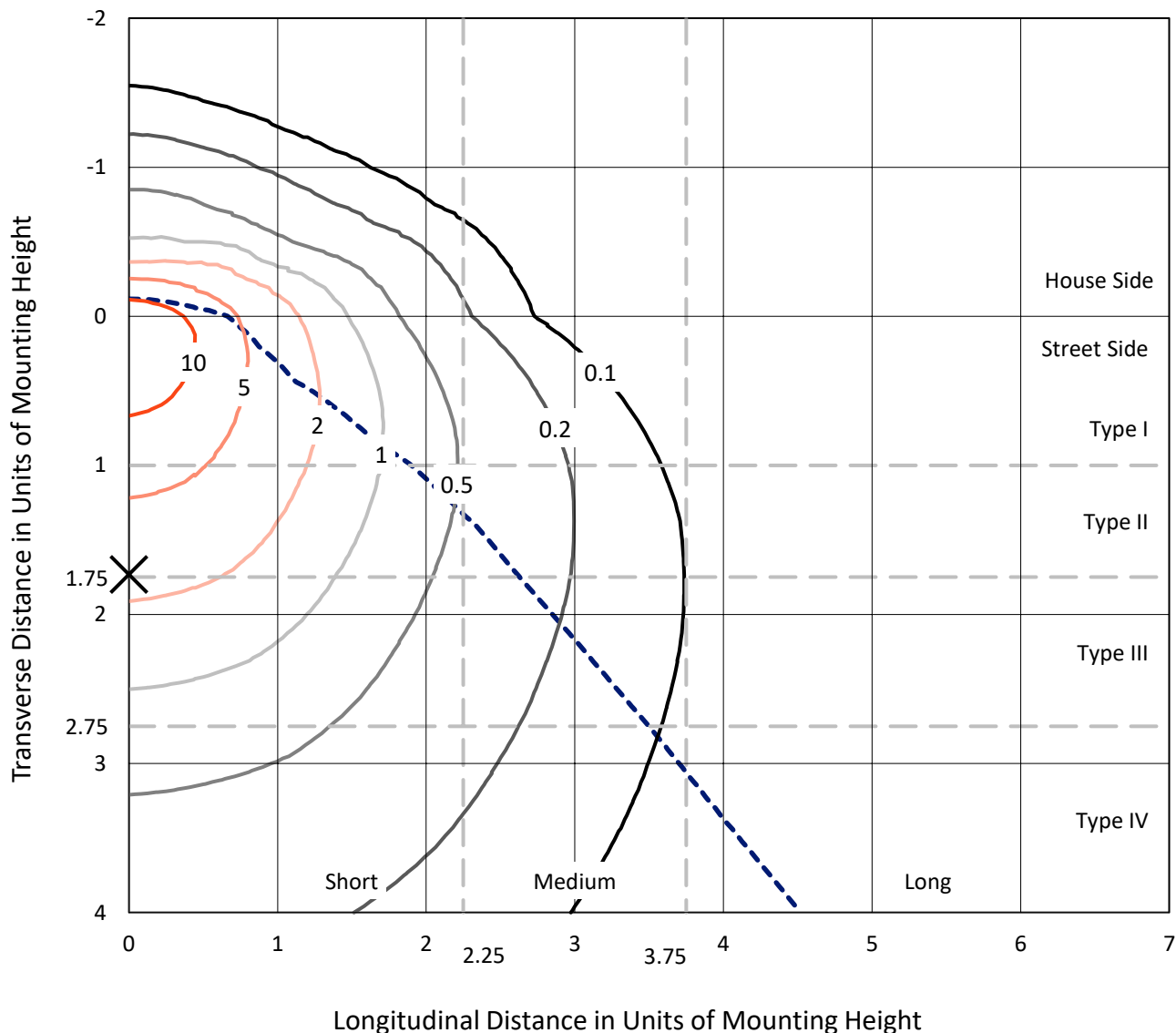
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

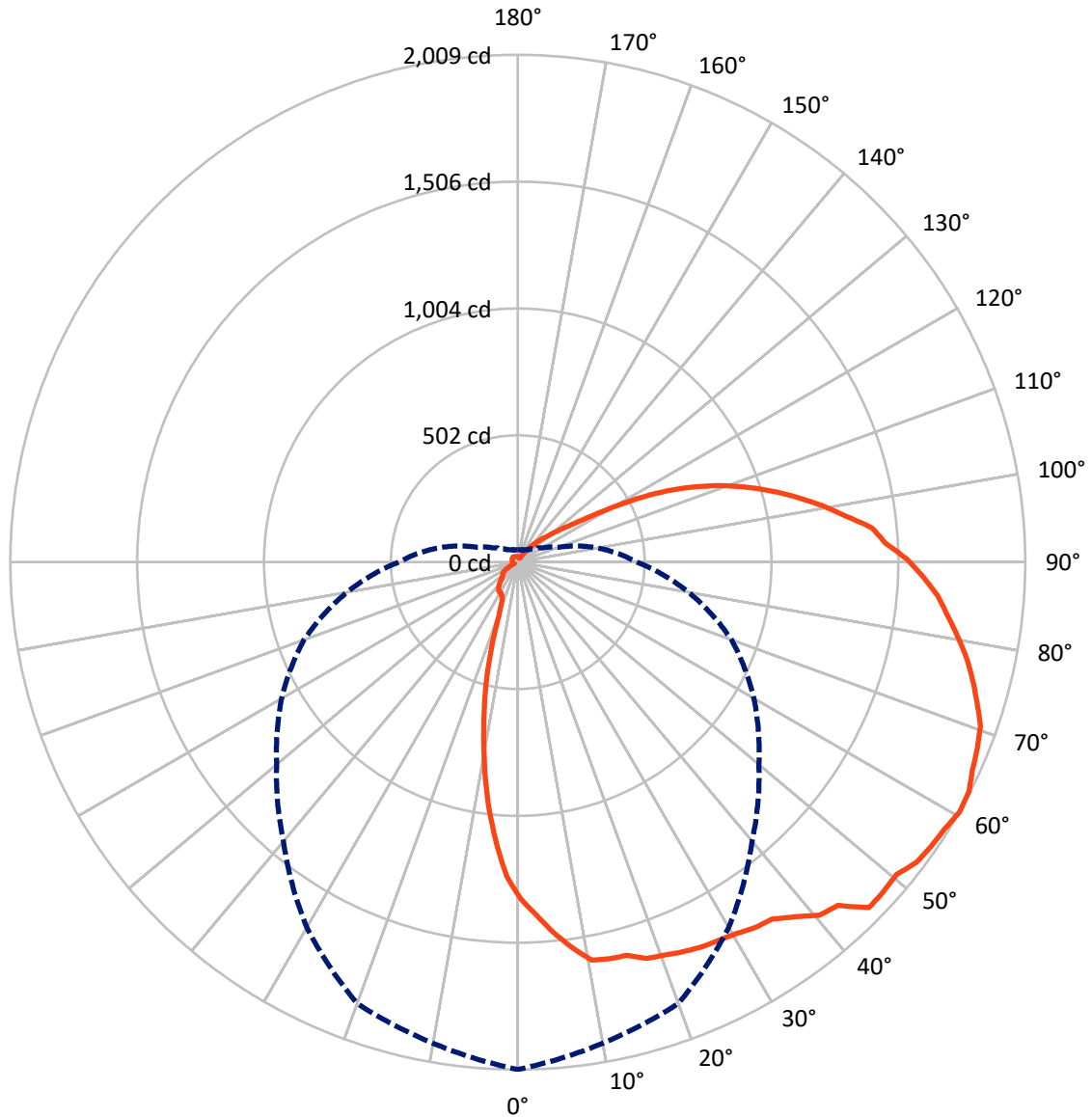
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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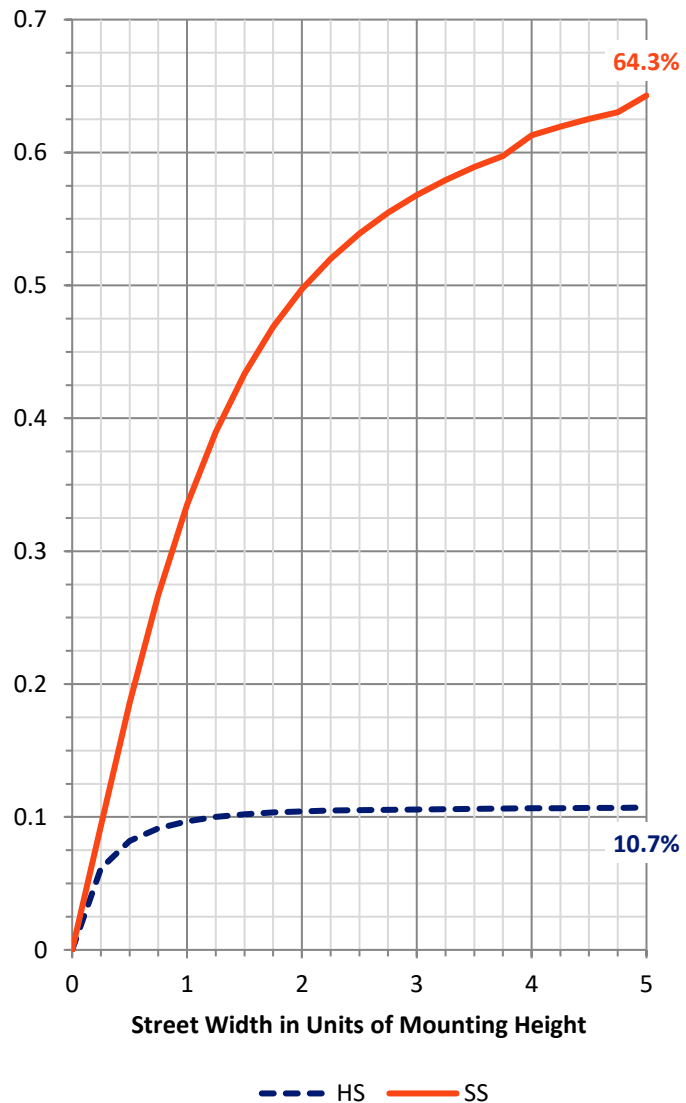
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 619.2 | 76.3 | 695.5 |
| | % Fixture | 10.9 | 1.3 | 12.3 |
| Street Side | Lumens | 4020.7 | 942.8 | 4963.5 |
| | % Fixture | 71.1 | 16.7 | 87.7 |
| Total | Lumens | 4639.9 | 1019.1 | 5659.0 |
| | % Fixture | 82.0 | 18.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.7 | 2.2 |
| 10°-20° | 323.4 | 5.7 |
| 20°-30° | 451.6 | 8.0 |
| 30°-40° | 550.0 | 9.7 |
| 40°-50° | 629.3 | 11.1 |
| 50°-60° | 682.6 | 12.1 |
| 60°-70° | 694.7 | 12.3 |
| 70°-80° | 640.7 | 11.3 |
| 80°-90° | 544.9 | 9.6 |
| 90°-100° | 423.8 | 7.5 |
| 100°-110° | 292.1 | 5.2 |
| 110°-120° | 162.1 | 2.9 |
| 120°-130° | 72.1 | 1.3 |
| 130°-140° | 35.1 | 0.6 |
| 140°-150° | 16.6 | 0.3 |
| 150°-160° | 9.6 | 0.2 |
| 160°-170° | 5.8 | 0.1 |
| 170°-180° | 1.9 | 0.0 |
| 0°-90° | 4639.9 | 82.0 |
| 0°-180° | 5659.0 | 100.0 |



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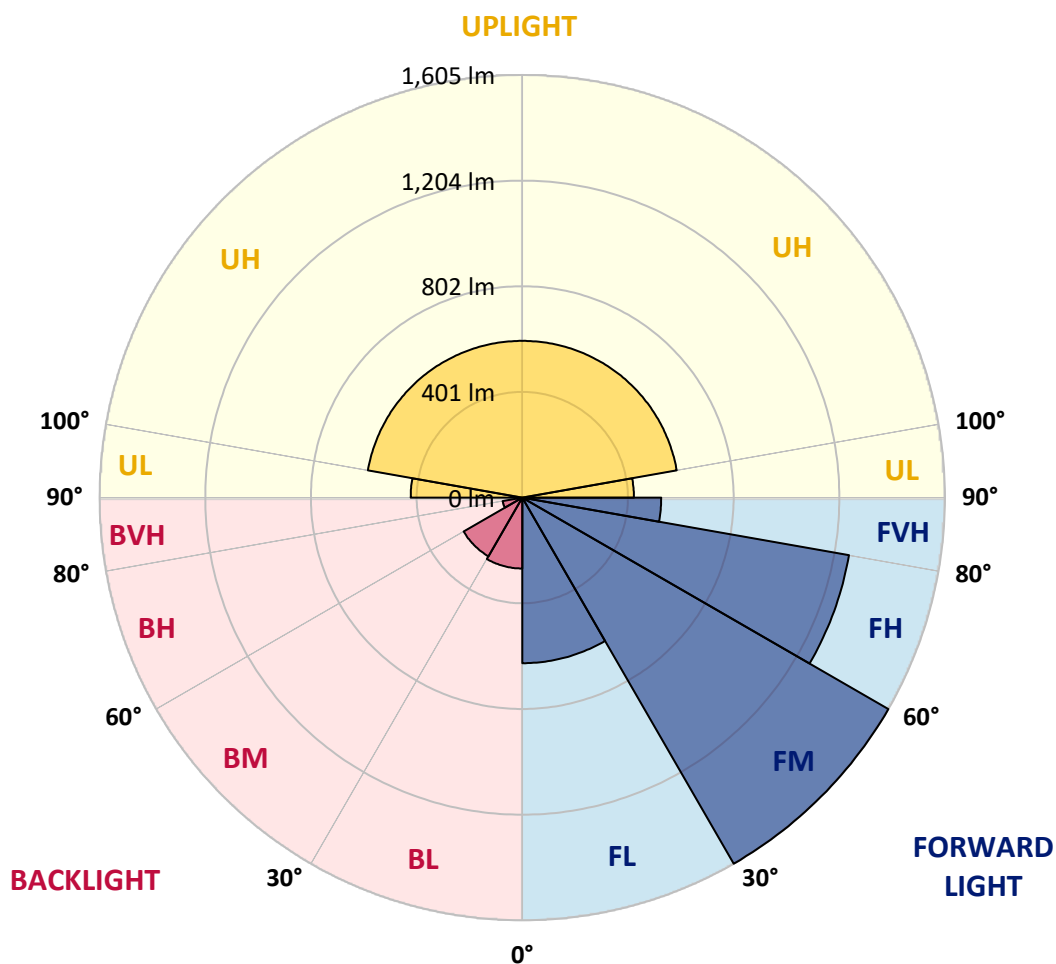
CATALOG NUMBER: WPMLED15S-40W_SWITCH-4000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 628.6 | 11.1 | | | |
| FM (30°-60°) | 1605.0 | 28.4 | | | |
| FH (60°-80°) | 1259.6 | 22.3 | | | G1/1800 |
| FVH (80°-90°) | 527.5 | 9.3 | | | G4/750 |
| BL (0°-30°) | 269.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 256.9 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 75.8 | 1.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 17.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 423.8 | 7.5 | | U3/500 | |
| UH (100°-180°) | 595.3 | 10.5 | | U4/1000 | |

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 |
| 2.5° | 1398.4 | 1393.1 | 1387.8 | 1385.9 | 1385.1 | 1381.1 | 1373.7 | 1362.1 | 1337.6 | 1313.1 | 1294.5 |
| 5° | 1472.3 | 1466.2 | 1460.1 | 1454.1 | 1447.9 | 1430.2 | 1400.9 | 1372.1 | 1344.5 | 1317.0 | 1290.9 |
| 7.5° | 1540.0 | 1531.8 | 1523.5 | 1502.0 | 1476.2 | 1454.3 | 1436.4 | 1410.9 | 1363.0 | 1315.1 | 1261.3 |
| 10° | 1602.0 | 1593.4 | 1584.9 | 1568.7 | 1550.1 | 1515.8 | 1466.0 | 1413.2 | 1351.3 | 1289.4 | 1220.5 |
| 12.5° | 1610.6 | 1594.9 | 1579.2 | 1575.4 | 1575.5 | 1547.4 | 1491.2 | 1431.4 | 1360.9 | 1290.4 | 1192.9 |
| 15° | 1615.3 | 1592.1 | 1568.9 | 1556.1 | 1546.7 | 1523.3 | 1485.9 | 1437.4 | 1355.3 | 1273.3 | 1151.7 |
| 17.5° | 1649.0 | 1617.5 | 1585.9 | 1570.7 | 1561.1 | 1536.9 | 1498.4 | 1444.9 | 1346.5 | 1248.1 | 1107.0 |
| 20° | 1660.3 | 1642.3 | 1624.3 | 1597.1 | 1566.8 | 1530.5 | 1488.1 | 1429.2 | 1320.5 | 1211.9 | 1051.1 |
| 22.5° | 1675.2 | 1653.0 | 1630.8 | 1598.1 | 1561.8 | 1521.3 | 1476.8 | 1413.7 | 1295.2 | 1176.6 | 993.9 |
| 25° | 1687.9 | 1670.7 | 1653.6 | 1611.9 | 1562.1 | 1510.1 | 1455.9 | 1385.4 | 1265.9 | 1146.4 | 942.0 |
| 27.5° | 1694.7 | 1676.9 | 1659.1 | 1605.9 | 1541.1 | 1479.1 | 1420.2 | 1345.5 | 1223.6 | 1101.8 | 882.2 |
| 30° | 1705.8 | 1681.3 | 1656.8 | 1593.2 | 1516.6 | 1448.5 | 1389.0 | 1313.8 | 1191.3 | 1068.9 | 831.1 |
| 32.5° | 1724.5 | 1693.5 | 1662.4 | 1591.7 | 1507.8 | 1428.5 | 1353.8 | 1267.5 | 1146.1 | 1024.7 | 785.8 |
| 35° | 1734.9 | 1702.0 | 1669.1 | 1594.2 | 1505.3 | 1419.5 | 1336.7 | 1240.9 | 1106.0 | 971.2 | 727.3 |
| 37.5° | 1781.1 | 1733.6 | 1686.0 | 1593.4 | 1485.8 | 1383.2 | 1285.7 | 1180.1 | 1050.1 | 920.1 | 671.2 |
| 40° | 1837.5 | 1780.1 | 1722.7 | 1608.6 | 1475.6 | 1356.2 | 1250.3 | 1137.4 | 1003.4 | 869.5 | 617.4 |
| 42.5° | 1857.7 | 1806.9 | 1756.1 | 1631.7 | 1482.9 | 1344.3 | 1215.9 | 1086.8 | 955.4 | 824.0 | 572.7 |
| 45° | 1950.1 | 1874.6 | 1799.0 | 1655.8 | 1490.1 | 1339.0 | 1202.8 | 1065.1 | 923.1 | 781.2 | 529.6 |
| 47.5° | 1948.0 | 1880.4 | 1812.7 | 1666.0 | 1493.0 | 1331.3 | 1181.0 | 1030.1 | 877.6 | 725.0 | 487.5 |
| 50° | 1942.6 | 1882.4 | 1822.2 | 1670.5 | 1488.4 | 1313.2 | 1145.0 | 980.9 | 829.1 | 677.3 | 453.8 |
| 52.5° | 1975.4 | 1899.7 | 1824.0 | 1666.7 | 1482.3 | 1307.2 | 1141.3 | 973.7 | 800.9 | 628.0 | 420.8 |
| 55° | 1985.3 | 1910.6 | 1835.8 | 1667.9 | 1468.9 | 1286.9 | 1121.9 | 951.2 | 763.6 | 576.0 | 387.9 |
| 57.5° | 1992.4 | 1920.0 | 1847.6 | 1666.3 | 1448.7 | 1260.6 | 1102.0 | 932.1 | 728.5 | 524.8 | 355.5 |
| 60° | 2008.5 | 1933.8 | 1859.0 | 1669.9 | 1442.7 | 1245.8 | 1079.2 | 900.6 | 686.0 | 471.4 | 321.9 |
| 62.5° | 2003.4 | 1936.3 | 1869.2 | 1678.7 | 1447.1 | 1241.6 | 1062.2 | 870.5 | 641.9 | 413.2 | 285.3 |
| 65° | 1978.2 | 1917.7 | 1857.2 | 1667.8 | 1435.6 | 1229.5 | 1049.6 | 852.1 | 601.3 | 350.6 | 245.8 |
| 67.5° | 1961.6 | 1903.2 | 1844.7 | 1646.4 | 1401.5 | 1191.2 | 1015.5 | 818.3 | 556.7 | 295.1 | 209.7 |
| 70° | 1942.8 | 1879.8 | 1816.8 | 1615.9 | 1369.1 | 1158.4 | 983.8 | 784.9 | 513.2 | 241.5 | 174.4 |
| 72.5° | 1900.9 | 1845.8 | 1790.6 | 1587.0 | 1334.0 | 1117.2 | 936.6 | 733.6 | 463.4 | 193.2 | 142.3 |
| 75° | 1859.4 | 1800.8 | 1742.2 | 1542.0 | 1294.6 | 1078.4 | 893.6 | 687.9 | 420.0 | 152.1 | 115.4 |
| 77.5° | 1815.3 | 1756.0 | 1696.7 | 1498.9 | 1254.9 | 1036.4 | 843.3 | 634.2 | 376.6 | 119.1 | 93.4 |
| 80° | 1764.1 | 1701.5 | 1638.9 | 1442.8 | 1202.0 | 983.7 | 787.9 | 580.4 | 338.0 | 95.6 | 76.9 |
| 82.5° | 1712.4 | 1648.1 | 1583.9 | 1389.1 | 1150.8 | 931.1 | 730.0 | 523.6 | 301.4 | 79.3 | 65.2 |
| 85° | 1665.6 | 1603.2 | 1540.8 | 1344.4 | 1103.4 | 878.9 | 671.0 | 465.2 | 266.1 | 67.0 | 56.2 |
| 87.5° | 1603.7 | 1537.7 | 1471.6 | 1279.1 | 1044.5 | 822.4 | 612.8 | 411.1 | 233.2 | 55.4 | 48.3 |
| 90° | 1538.2 | 1471.7 | 1405.2 | 1216.8 | 987.7 | 768.3 | 558.6 | 361.8 | 204.0 | 46.2 | 42.1 |
| 92.5° | 1456.5 | 1393.0 | 1329.5 | 1148.2 | 927.5 | 711.4 | 500.0 | 308.0 | 174.7 | 41.3 | 38.7 |
| 95° | 1409.5 | 1335.2 | 1260.9 | 1080.1 | 863.7 | 652.0 | 445.0 | 261.9 | 150.3 | 38.7 | 36.5 |
| 97.5° | 1310.9 | 1246.6 | 1182.3 | 1009.2 | 799.8 | 595.0 | 394.8 | 221.6 | 129.4 | 37.3 | 35.2 |
| 100° | 1226.2 | 1158.8 | 1091.3 | 927.2 | 730.9 | 538.0 | 348.6 | 187.7 | 112.4 | 37.0 | 34.7 |
| 102.5° | 1136.7 | 1073.5 | 1010.4 | 854.2 | 666.9 | 484.4 | 306.7 | 158.2 | 97.7 | 37.3 | 34.3 |
| 105° | 1048.8 | 984.8 | 920.7 | 772.7 | 596.6 | 427.7 | 266.1 | 132.9 | 85.2 | 37.6 | 34.0 |
| 107.5° | 957.3 | 895.4 | 833.5 | 693.7 | 527.9 | 373.3 | 230.0 | 113.1 | 75.3 | 37.6 | 33.6 |
| 110° | 865.4 | 801.1 | 736.8 | 605.3 | 451.3 | 314.5 | 194.9 | 97.6 | 67.5 | 37.3 | 33.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 112.5° | 764.6 | 700.3 | 636.0 | 515.4 | 376.2 | 259.0 | 163.8 | 86.2 | 61.4 | 36.7 | 32.2 |
| 115° | 655.6 | 594.3 | 533.0 | 426.5 | 305.1 | 207.8 | 134.6 | 74.9 | 55.3 | 35.7 | 31.2 |
| 117.5° | 536.4 | 484.8 | 433.2 | 347.8 | 251.1 | 172.5 | 112.2 | 63.3 | 49.0 | 34.6 | 30.1 |
| 120° | 409.8 | 372.3 | 334.9 | 273.6 | 204.3 | 144.6 | 94.5 | 54.3 | 43.7 | 33.1 | 28.8 |
| 122.5° | 309.9 | 287.4 | 264.9 | 221.7 | 171.6 | 125.1 | 82.4 | 48.1 | 39.6 | 31.1 | 27.4 |
| 125° | 245.5 | 233.0 | 220.5 | 187.1 | 146.8 | 108.4 | 71.9 | 42.9 | 36.1 | 29.2 | 26.1 |
| 127.5° | 201.7 | 193.8 | 185.9 | 158.8 | 125.2 | 93.0 | 62.1 | 37.7 | 32.6 | 27.5 | 25.0 |
| 130° | 166.7 | 161.6 | 156.5 | 132.9 | 103.1 | 76.0 | 51.6 | 32.5 | 29.2 | 25.9 | 23.9 |
| 132.5° | 140.2 | 136.9 | 133.6 | 112.1 | 84.5 | 61.3 | 42.6 | 28.0 | 26.2 | 24.4 | 23.0 |
| 135° | 119.5 | 115.6 | 111.7 | 92.8 | 68.9 | 49.9 | 35.6 | 24.8 | 23.9 | 23.1 | 22.2 |
| 137.5° | 97.0 | 92.7 | 88.4 | 73.6 | 55.3 | 40.8 | 30.3 | 22.3 | 22.1 | 21.9 | 21.4 |
| 140° | 75.8 | 72.3 | 68.9 | 57.7 | 43.9 | 33.3 | 26.0 | 20.5 | 20.6 | 20.7 | 20.5 |
| 142.5° | 56.2 | 54.5 | 52.8 | 44.6 | 34.3 | 27.1 | 23.0 | 19.8 | 19.6 | 19.4 | 19.6 |
| 145° | 41.1 | 39.9 | 38.8 | 33.6 | 27.1 | 23.0 | 21.2 | 19.7 | 18.9 | 18.1 | 18.8 |
| 147.5° | 32.6 | 31.7 | 30.7 | 27.1 | 22.5 | 20.2 | 20.0 | 19.6 | 18.6 | 17.5 | 18.6 |
| 150° | 26.9 | 26.0 | 25.0 | 22.4 | 19.3 | 18.3 | 19.3 | 19.8 | 18.7 | 17.7 | 18.7 |
| 152.5° | 22.7 | 22.0 | 21.3 | 20.0 | 18.5 | 18.1 | 18.6 | 18.9 | 18.4 | 17.9 | 18.9 |
| 155° | 19.5 | 18.8 | 18.1 | 17.9 | 17.9 | 18.0 | 18.1 | 18.1 | 18.1 | 18.1 | 19.1 |
| 157.5° | 17.2 | 17.3 | 17.3 | 18.1 | 19.1 | 19.3 | 18.6 | 18.1 | 18.2 | 18.4 | 19.3 |
| 160° | 17.8 | 18.0 | 18.2 | 18.8 | 19.6 | 19.6 | 18.8 | 18.3 | 18.4 | 18.6 | 19.4 |
| 162.5° | 20.3 | 20.1 | 20.0 | 20.0 | 19.9 | 19.5 | 18.9 | 18.5 | 18.6 | 18.8 | 19.5 |
| 165° | 20.9 | 20.6 | 20.3 | 19.7 | 19.1 | 18.7 | 18.6 | 18.6 | 18.8 | 18.9 | 19.7 |
| 167.5° | 20.3 | 19.9 | 19.5 | 19.2 | 18.8 | 18.7 | 18.8 | 18.8 | 19.0 | 19.1 | 19.8 |
| 170° | 19.1 | 19.0 | 18.9 | 18.9 | 18.9 | 19.0 | 19.0 | 19.1 | 19.2 | 19.3 | 19.8 |
| 172.5° | 19.5 | 19.4 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.4 | 19.9 |
| 175° | 19.9 | 19.8 | 19.7 | 19.7 | 19.7 | 19.6 | 19.6 | 19.5 | 19.5 | 19.5 | 19.9 |
| 177.5° | 20.4 | 20.3 | 20.2 | 20.1 | 20.1 | 20.0 | 19.8 | 19.7 | 19.7 | 19.6 | 20.0 |
| 180° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |



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CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 | 1332.4 |
| 2.5° | 1276.0 | 1265.4 | 1257.5 | 1249.0 | 1239.9 | 1234.4 | 1239.9 | 1245.3 |
| 5° | 1264.7 | 1231.9 | 1196.8 | 1165.3 | 1137.2 | 1115.1 | 1110.6 | 1106.2 |
| 7.5° | 1207.5 | 1153.0 | 1098.2 | 1053.2 | 1018.1 | 988.2 | 974.5 | 960.8 |
| 10° | 1151.7 | 1078.5 | 1003.9 | 939.6 | 885.6 | 840.2 | 820.6 | 801.0 |
| 12.5° | 1095.4 | 998.2 | 901.1 | 816.0 | 743.0 | 683.6 | 665.0 | 646.3 |
| 15° | 1030.0 | 909.0 | 788.2 | 688.1 | 608.6 | 543.7 | 522.3 | 500.9 |
| 17.5° | 965.8 | 825.5 | 685.6 | 572.1 | 485.2 | 412.8 | 383.7 | 354.7 |
| 20° | 890.3 | 736.4 | 584.9 | 459.7 | 360.9 | 279.4 | 250.2 | 220.9 |
| 22.5° | 811.2 | 644.8 | 483.8 | 357.2 | 265.0 | 192.5 | 179.2 | 166.0 |
| 25° | 737.6 | 559.1 | 389.3 | 273.0 | 210.3 | 161.8 | 155.8 | 149.9 |
| 27.5° | 662.7 | 483.0 | 316.7 | 215.3 | 178.8 | 150.5 | 146.6 | 142.8 |
| 30° | 593.2 | 420.2 | 268.8 | 182.2 | 160.4 | 143.4 | 140.9 | 138.3 |
| 32.5° | 546.8 | 382.6 | 243.2 | 166.0 | 150.8 | 139.2 | 138.6 | 137.9 |
| 35° | 483.4 | 334.4 | 217.1 | 153.4 | 143.4 | 135.7 | 135.2 | 134.6 |
| 37.5° | 422.3 | 289.4 | 195.1 | 143.9 | 135.8 | 129.3 | 127.4 | 125.5 |
| 40° | 365.4 | 248.1 | 175.6 | 135.1 | 126.7 | 119.7 | 116.7 | 113.7 |
| 42.5° | 321.5 | 216.3 | 159.7 | 126.6 | 116.9 | 108.8 | 105.5 | 102.1 |
| 45° | 277.9 | 184.4 | 143.6 | 118.1 | 107.8 | 99.1 | 95.2 | 91.3 |
| 47.5° | 250.0 | 165.2 | 131.3 | 109.0 | 98.3 | 89.4 | 85.8 | 82.2 |
| 50° | 230.2 | 151.2 | 120.4 | 99.7 | 89.0 | 80.7 | 79.7 | 78.7 |
| 52.5° | 213.7 | 139.8 | 110.3 | 90.5 | 80.2 | 72.9 | 74.7 | 76.4 |
| 55° | 199.7 | 130.4 | 100.8 | 81.3 | 71.9 | 65.5 | 67.9 | 70.4 |
| 57.5° | 186.2 | 121.5 | 91.7 | 72.6 | 64.3 | 58.3 | 59.4 | 60.4 |
| 60° | 172.3 | 112.7 | 83.0 | 64.5 | 56.9 | 51.1 | 50.3 | 49.6 |
| 62.5° | 157.5 | 103.7 | 74.6 | 56.5 | 49.3 | 43.5 | 41.6 | 39.7 |
| 65° | 141.0 | 93.9 | 66.0 | 48.0 | 40.0 | 33.5 | 31.6 | 29.8 |
| 67.5° | 124.4 | 83.4 | 57.3 | 39.0 | 28.4 | 19.9 | 17.5 | 15.2 |
| 70° | 107.2 | 72.6 | 48.7 | 32.0 | 22.5 | 15.3 | 15.5 | 15.6 |
| 72.5° | 91.3 | 62.4 | 40.8 | 26.9 | 20.5 | 15.8 | 16.0 | 16.1 |
| 75° | 78.8 | 55.5 | 36.6 | 24.8 | 19.9 | 16.3 | 16.5 | 16.7 |
| 77.5° | 67.7 | 49.3 | 33.4 | 23.4 | 19.6 | 16.7 | 17.0 | 17.2 |
| 80° | 58.3 | 43.5 | 30.0 | 21.9 | 19.2 | 17.2 | 17.5 | 17.7 |
| 82.5° | 51.1 | 39.0 | 27.5 | 20.9 | 19.0 | 17.7 | 18.0 | 18.3 |
| 85° | 45.4 | 35.5 | 25.9 | 20.4 | 19.1 | 18.2 | 18.5 | 18.8 |
| 87.5° | 41.3 | 33.2 | 24.8 | 20.1 | 19.3 | 18.7 | 19.0 | 19.4 |
| 90° | 38.1 | 31.5 | 24.0 | 20.0 | 19.5 | 19.2 | 19.5 | 19.9 |
| 92.5° | 36.0 | 30.3 | 23.6 | 20.1 | 19.8 | 19.6 | 20.0 | 20.4 |
| 95° | 34.4 | 29.3 | 23.2 | 20.1 | 20.0 | 20.1 | 20.5 | 20.9 |
| 97.5° | 33.2 | 28.5 | 22.9 | 20.2 | 20.3 | 20.5 | 20.9 | 21.4 |
| 100° | 32.3 | 27.8 | 22.7 | 20.3 | 20.6 | 20.9 | 21.4 | 21.8 |
| 102.5° | 31.3 | 27.1 | 22.5 | 20.4 | 20.9 | 21.3 | 21.8 | 22.2 |
| 105° | 30.5 | 26.5 | 22.3 | 20.5 | 21.2 | 21.7 | 22.2 | 22.6 |
| 107.5° | 29.6 | 25.9 | 22.2 | 20.8 | 21.5 | 22.1 | 22.6 | 23.0 |
| 110° | 28.6 | 25.2 | 22.1 | 21.0 | 21.8 | 22.5 | 23.0 | 23.4 |



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 CATALOG NUMBER: WPMLED15S-40W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
|--------|------|------|------|------|------|------|------|------|
| 112.5° | 27.7 | 24.6 | 22.1 | 21.2 | 22.1 | 22.9 | 23.3 | 23.8 |
| 115° | 26.6 | 24.0 | 21.9 | 21.4 | 22.4 | 23.2 | 23.7 | 24.1 |
| 117.5° | 25.5 | 23.3 | 21.9 | 21.7 | 22.7 | 23.6 | 24.0 | 24.5 |
| 120° | 24.6 | 22.8 | 21.8 | 21.9 | 23.0 | 23.9 | 24.4 | 24.8 |
| 122.5° | 23.7 | 22.4 | 21.8 | 22.1 | 23.3 | 24.3 | 24.7 | 25.1 |
| 125° | 23.0 | 22.0 | 21.8 | 22.3 | 23.5 | 24.5 | 24.9 | 25.3 |
| 127.5° | 22.4 | 21.8 | 21.9 | 22.5 | 23.8 | 24.8 | 25.2 | 25.5 |
| 130° | 21.9 | 21.7 | 22.0 | 22.7 | 24.0 | 25.0 | 25.4 | 25.7 |
| 132.5° | 21.6 | 21.6 | 22.1 | 22.9 | 24.2 | 25.2 | 25.5 | 25.9 |
| 135° | 21.3 | 21.5 | 22.2 | 23.1 | 24.3 | 25.3 | 25.7 | 26.0 |
| 137.5° | 20.9 | 21.4 | 22.3 | 23.3 | 24.4 | 25.4 | 25.7 | 26.1 |
| 140° | 20.4 | 21.2 | 22.3 | 23.4 | 24.5 | 25.4 | 25.8 | 26.1 |
| 142.5° | 19.8 | 20.9 | 22.2 | 23.4 | 24.5 | 25.4 | 25.7 | 26.1 |
| 145° | 19.6 | 20.8 | 22.2 | 23.5 | 24.5 | 25.3 | 25.7 | 26.0 |
| 147.5° | 19.6 | 20.9 | 22.3 | 23.5 | 24.4 | 25.2 | 25.5 | 25.8 |
| 150° | 19.8 | 21.0 | 22.3 | 23.4 | 24.3 | 25.1 | 25.3 | 25.6 |
| 152.5° | 19.9 | 21.1 | 22.3 | 23.3 | 24.1 | 24.8 | 25.1 | 25.4 |
| 155° | 20.0 | 21.1 | 22.3 | 23.2 | 23.9 | 24.6 | 24.8 | 25.0 |
| 157.5° | 20.2 | 21.2 | 22.2 | 23.1 | 23.7 | 24.3 | 24.5 | 24.7 |
| 160° | 20.2 | 21.2 | 22.1 | 22.9 | 23.5 | 24.0 | 24.2 | 24.4 |
| 162.5° | 20.3 | 21.2 | 22.0 | 22.7 | 23.2 | 23.7 | 23.8 | 24.0 |
| 165° | 20.4 | 21.1 | 21.9 | 22.5 | 23.0 | 23.4 | 23.5 | 23.6 |
| 167.5° | 20.4 | 21.1 | 21.7 | 22.3 | 22.7 | 23.0 | 23.1 | 23.2 |
| 170° | 20.4 | 21.0 | 21.6 | 22.0 | 22.4 | 22.6 | 22.7 | 22.7 |
| 172.5° | 20.4 | 20.9 | 21.4 | 21.8 | 22.1 | 22.2 | 22.2 | 22.2 |
| 175° | 20.4 | 20.8 | 21.2 | 21.5 | 21.7 | 21.9 | 21.9 | 21.8 |
| 177.5° | 20.3 | 20.7 | 21.0 | 21.3 | 21.4 | 21.5 | 21.4 | 21.3 |
| 180° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |

(END OF REPORT)