

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584861

Luminaire Tested: **HCC8W50D010MB-HM82555927-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010MB-HM82555927-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

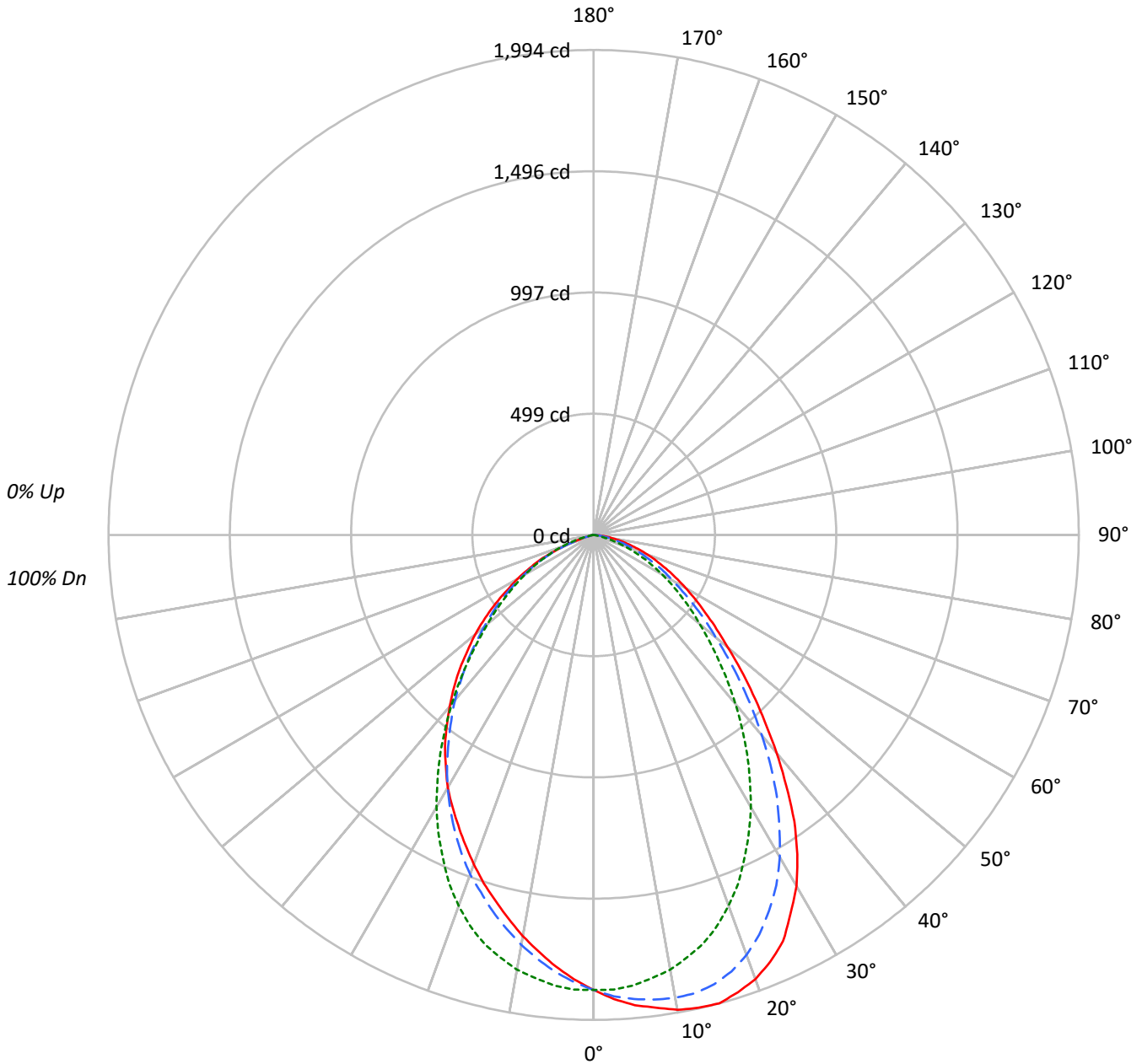
Lumens per Lamp: N/A
Luminaire Lumens: 3484.9 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
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: 25 FT



TEST NUMBER: P584861
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Luminous Intensity Polar Plot





TEST NUMBER: P584861

CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 57692 | 57692 | 57692 |
| 5° | 60076 | 57562 | 55142 |
| 10° | 62082 | 56831 | 52454 |
| 15° | 63657 | 55532 | 49728 |
| 20° | 63780 | 53226 | 47261 |
| 25° | 62703 | 49856 | 44817 |
| 30° | 59349 | 46004 | 42717 |
| 35° | 54110 | 41375 | 40106 |
| 40° | 47057 | 36474 | 37038 |
| 45° | 40365 | 31586 | 33902 |
| 50° | 34478 | 27234 | 30453 |
| 55° | 30219 | 23456 | 26456 |
| 60° | 26908 | 20007 | 22251 |
| 65° | 23874 | 16322 | 17752 |
| 70° | 21178 | 12099 | 10089 |
| 75° | 17657 | 6338 | 2990 |
| 80° | 13904 | 1989 | 497 |
| 85° | 9871 | 991 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.3 | 5.1 |
| 10°-20° | 494.1 | 14.2 |
| 20°-30° | 699.3 | 20.1 |
| 30°-40° | 731.7 | 21.0 |
| 40°-50° | 610.3 | 17.5 |
| 50°-60° | 432.7 | 12.4 |
| 60°-70° | 249.2 | 7.2 |
| 70°-80° | 80.2 | 2.3 |
| 80°-90° | 11.0 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1369.7 | 39.3 |
| 0°-40° | 2101.4 | 60.3 |
| 0°-60° | 3144.4 | 90.2 |
| 0°-90° | 3484.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3484.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1871 | 1871 | 1871 | 1871 | 1871 | |
| 5° | 1941 | 1916 | 1860 | 1804 | 1781 | 186 |
| 15° | 1994 | 1913 | 1740 | 1602 | 1558 | 561 |
| 25° | 1843 | 1706 | 1465 | 1348 | 1317 | 841 |
| 35° | 1437 | 1312 | 1099 | 1040 | 1065 | 891 |
| 45° | 926 | 850 | 724 | 733 | 777 | 717 |
| 55° | 562 | 503 | 436 | 459 | 492 | 508 |
| 65° | 327 | 274 | 224 | 224 | 243 | 327 |
| 75° | 148 | 109 | 53 | 25 | 25 | 161 |
| 85° | 28 | 14 | 3 | 0 | 0 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 |
| 2.5° | 1910.0 | 1907.2 | 1904.4 | 1907.2 | 1904.4 | 1907.2 | 1904.4 | 1904.4 | 1901.6 | 1898.8 | 1898.8 |
| 5° | 1940.8 | 1938.0 | 1938.0 | 1938.0 | 1935.2 | 1932.4 | 1932.4 | 1929.7 | 1924.1 | 1921.3 | 1915.6 |
| 7.5° | 1960.4 | 1963.2 | 1963.2 | 1963.2 | 1957.6 | 1957.6 | 1952.0 | 1946.4 | 1940.8 | 1935.2 | 1926.9 |
| 10° | 1982.7 | 1982.7 | 1979.9 | 1977.1 | 1971.5 | 1968.7 | 1966.0 | 1960.4 | 1952.0 | 1940.8 | 1932.4 |
| 12.5° | 1991.2 | 1991.2 | 1988.4 | 1982.7 | 1979.9 | 1977.1 | 1974.3 | 1966.0 | 1954.8 | 1940.8 | 1929.7 |
| 15° | 1994.0 | 1988.4 | 1985.5 | 1982.7 | 1977.1 | 1968.7 | 1968.7 | 1957.6 | 1943.6 | 1926.9 | 1912.8 |
| 17.5° | 1971.5 | 1974.3 | 1968.7 | 1963.2 | 1954.8 | 1949.2 | 1940.8 | 1932.4 | 1915.6 | 1896.0 | 1882.1 |
| 20° | 1943.6 | 1940.8 | 1938.0 | 1929.7 | 1918.4 | 1915.6 | 1907.2 | 1893.3 | 1879.3 | 1857.0 | 1837.3 |
| 22.5° | 1898.8 | 1896.0 | 1890.5 | 1884.9 | 1873.7 | 1868.1 | 1859.6 | 1842.9 | 1823.4 | 1801.0 | 1778.6 |
| 25° | 1842.9 | 1837.3 | 1828.9 | 1817.8 | 1809.4 | 1803.8 | 1792.5 | 1775.8 | 1753.4 | 1728.2 | 1705.9 |
| 27.5° | 1753.4 | 1761.8 | 1756.2 | 1739.5 | 1731.1 | 1719.8 | 1717.0 | 1694.7 | 1675.2 | 1649.9 | 1624.8 |
| 30° | 1666.8 | 1666.8 | 1658.3 | 1649.9 | 1636.0 | 1627.6 | 1616.4 | 1599.7 | 1580.0 | 1549.3 | 1529.8 |
| 32.5° | 1557.7 | 1554.9 | 1543.7 | 1540.9 | 1529.8 | 1512.9 | 1510.1 | 1487.8 | 1468.1 | 1445.8 | 1420.7 |
| 35° | 1437.4 | 1431.8 | 1420.7 | 1412.3 | 1406.7 | 1398.2 | 1389.9 | 1370.3 | 1350.8 | 1328.3 | 1311.6 |
| 37.5° | 1300.4 | 1300.4 | 1297.6 | 1283.6 | 1278.1 | 1272.5 | 1264.0 | 1244.5 | 1233.3 | 1210.9 | 1194.1 |
| 40° | 1169.0 | 1166.2 | 1157.8 | 1155.0 | 1149.4 | 1140.9 | 1135.4 | 1124.2 | 1107.4 | 1090.7 | 1073.8 |
| 42.5° | 1040.3 | 1043.1 | 1031.9 | 1034.7 | 1023.6 | 1018.0 | 1015.2 | 998.3 | 990.0 | 973.2 | 959.2 |
| 45° | 925.6 | 922.8 | 917.3 | 914.5 | 908.9 | 903.3 | 897.7 | 889.3 | 875.3 | 858.5 | 850.1 |
| 47.5° | 819.4 | 811.1 | 811.1 | 808.2 | 805.4 | 794.2 | 791.4 | 783.0 | 774.7 | 757.9 | 746.6 |
| 50° | 718.7 | 718.7 | 718.7 | 715.9 | 707.5 | 704.7 | 699.2 | 690.8 | 682.3 | 671.1 | 654.4 |
| 52.5° | 637.6 | 637.6 | 637.6 | 634.8 | 623.7 | 620.9 | 618.1 | 606.8 | 595.7 | 587.3 | 576.1 |
| 55° | 562.1 | 564.9 | 562.1 | 556.6 | 548.1 | 548.1 | 539.7 | 534.1 | 523.0 | 514.6 | 503.4 |
| 57.5° | 497.8 | 497.8 | 492.1 | 489.3 | 483.8 | 481.0 | 475.4 | 469.8 | 455.8 | 447.5 | 433.5 |
| 60° | 436.3 | 433.5 | 433.5 | 427.9 | 422.2 | 416.6 | 413.9 | 405.5 | 399.9 | 385.9 | 374.8 |
| 62.5° | 380.3 | 380.3 | 374.8 | 374.8 | 363.6 | 363.6 | 360.8 | 352.3 | 343.9 | 330.0 | 324.4 |
| 65° | 327.2 | 327.2 | 324.4 | 321.6 | 313.2 | 310.4 | 307.6 | 299.3 | 290.8 | 282.4 | 274.0 |
| 67.5° | 279.6 | 279.6 | 274.0 | 271.2 | 265.7 | 262.9 | 257.3 | 251.7 | 243.3 | 234.9 | 226.6 |
| 70° | 234.9 | 232.2 | 229.4 | 226.6 | 220.9 | 218.1 | 212.5 | 206.9 | 198.6 | 193.0 | 184.6 |
| 72.5° | 190.2 | 190.2 | 187.4 | 181.8 | 179.0 | 176.2 | 173.4 | 167.8 | 159.5 | 151.0 | 145.4 |
| 75° | 148.2 | 148.2 | 148.2 | 142.6 | 137.0 | 134.2 | 134.2 | 128.6 | 123.1 | 114.7 | 109.1 |
| 77.5° | 114.7 | 111.9 | 109.1 | 109.1 | 103.5 | 100.7 | 97.8 | 95.0 | 86.7 | 83.9 | 78.3 |
| 80° | 78.3 | 81.1 | 78.3 | 75.5 | 72.7 | 69.9 | 69.9 | 64.3 | 61.5 | 55.9 | 50.4 |
| 82.5° | 53.2 | 50.4 | 50.4 | 47.6 | 47.6 | 44.8 | 44.8 | 39.2 | 36.4 | 33.6 | 30.7 |
| 85° | 27.9 | 27.9 | 25.1 | 25.1 | 25.1 | 22.3 | 22.3 | 19.5 | 19.5 | 16.8 | 14.0 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 5.6 | 5.6 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 |
| 2.5° | 1896.0 | 1890.5 | 1887.7 | 1887.7 | 1884.9 | 1882.1 | 1879.3 | 1876.5 | 1870.9 | 1870.9 | 1865.3 |
| 5° | 1910.0 | 1904.4 | 1901.6 | 1893.3 | 1887.7 | 1887.7 | 1876.5 | 1873.7 | 1865.3 | 1859.6 | 1854.2 |
| 7.5° | 1921.3 | 1910.0 | 1901.6 | 1893.3 | 1887.7 | 1882.1 | 1870.9 | 1859.6 | 1848.5 | 1837.3 | 1831.7 |
| 10° | 1921.3 | 1910.0 | 1896.0 | 1882.1 | 1876.5 | 1870.9 | 1857.0 | 1840.1 | 1826.1 | 1815.0 | 1801.0 |
| 12.5° | 1915.6 | 1898.8 | 1882.1 | 1870.9 | 1859.6 | 1851.3 | 1834.5 | 1817.8 | 1801.0 | 1778.6 | 1767.4 |
| 15° | 1898.8 | 1876.5 | 1859.6 | 1840.1 | 1831.7 | 1817.8 | 1803.8 | 1778.6 | 1759.0 | 1739.5 | 1725.4 |
| 17.5° | 1865.3 | 1837.3 | 1817.8 | 1798.2 | 1784.2 | 1775.8 | 1753.4 | 1731.1 | 1708.7 | 1686.3 | 1669.6 |
| 20° | 1815.0 | 1789.7 | 1767.4 | 1742.3 | 1731.1 | 1719.8 | 1691.9 | 1669.6 | 1647.1 | 1622.0 | 1605.3 |
| 22.5° | 1753.4 | 1728.2 | 1697.5 | 1678.0 | 1661.1 | 1647.1 | 1622.0 | 1596.9 | 1574.4 | 1552.1 | 1529.8 |
| 25° | 1678.0 | 1652.7 | 1624.8 | 1594.0 | 1582.8 | 1568.9 | 1540.9 | 1515.7 | 1490.6 | 1465.3 | 1445.8 |
| 27.5° | 1596.9 | 1563.3 | 1540.9 | 1507.3 | 1496.2 | 1482.2 | 1451.4 | 1423.5 | 1401.0 | 1381.5 | 1359.1 |
| 30° | 1498.9 | 1473.8 | 1443.0 | 1412.3 | 1401.0 | 1387.1 | 1361.9 | 1336.8 | 1314.4 | 1292.0 | 1269.7 |
| 32.5° | 1392.6 | 1367.5 | 1336.8 | 1314.4 | 1297.6 | 1286.4 | 1261.2 | 1238.9 | 1216.5 | 1194.1 | 1174.5 |
| 35° | 1280.9 | 1252.8 | 1230.5 | 1208.2 | 1194.1 | 1180.1 | 1155.0 | 1135.4 | 1118.6 | 1099.1 | 1079.5 |
| 37.5° | 1166.2 | 1146.6 | 1124.2 | 1099.1 | 1085.1 | 1073.8 | 1054.3 | 1031.9 | 1018.0 | 1001.1 | 987.2 |
| 40° | 1054.3 | 1031.9 | 1012.4 | 990.0 | 978.8 | 970.4 | 950.9 | 934.0 | 920.1 | 906.1 | 897.7 |
| 42.5° | 939.6 | 920.1 | 900.5 | 886.5 | 878.2 | 869.7 | 855.7 | 836.2 | 827.8 | 813.7 | 805.4 |
| 45° | 833.4 | 816.5 | 802.6 | 783.0 | 777.4 | 771.9 | 755.1 | 741.0 | 732.7 | 724.3 | 718.7 |
| 47.5° | 732.7 | 721.5 | 704.7 | 693.6 | 685.2 | 679.5 | 668.3 | 657.2 | 648.8 | 643.2 | 637.6 |
| 50° | 646.0 | 632.0 | 620.9 | 609.6 | 604.0 | 595.7 | 584.5 | 578.9 | 573.3 | 567.7 | 567.7 |
| 52.5° | 564.9 | 550.9 | 539.7 | 531.3 | 525.7 | 520.2 | 511.8 | 509.0 | 503.4 | 503.4 | 500.6 |
| 55° | 489.3 | 481.0 | 469.8 | 458.6 | 455.8 | 453.0 | 447.5 | 441.9 | 439.1 | 436.3 | 439.1 |
| 57.5° | 425.0 | 416.6 | 405.5 | 397.1 | 394.3 | 391.5 | 388.7 | 383.1 | 380.3 | 380.3 | 380.3 |
| 60° | 366.4 | 357.9 | 349.5 | 341.2 | 341.2 | 335.6 | 332.8 | 330.0 | 327.2 | 324.4 | 324.4 |
| 62.5° | 313.2 | 304.9 | 296.5 | 290.8 | 288.0 | 285.2 | 279.6 | 276.8 | 274.0 | 274.0 | 271.2 |
| 65° | 265.7 | 254.5 | 251.7 | 243.3 | 240.5 | 237.7 | 234.9 | 229.4 | 226.6 | 223.7 | 220.9 |
| 67.5° | 218.1 | 212.5 | 204.1 | 198.6 | 195.8 | 193.0 | 190.2 | 184.6 | 181.8 | 179.0 | 173.4 |
| 70° | 176.2 | 170.6 | 164.9 | 159.5 | 156.6 | 153.8 | 148.2 | 142.6 | 139.8 | 134.2 | 125.9 |
| 72.5° | 137.0 | 131.4 | 125.9 | 120.3 | 117.5 | 114.7 | 109.1 | 103.5 | 97.8 | 92.2 | 86.7 |
| 75° | 103.5 | 97.8 | 89.5 | 83.9 | 81.1 | 81.1 | 72.7 | 67.1 | 61.5 | 53.2 | 47.6 |
| 77.5° | 72.7 | 64.3 | 61.5 | 55.9 | 53.2 | 47.6 | 42.0 | 36.4 | 30.7 | 27.9 | 22.3 |
| 80° | 47.6 | 42.0 | 36.4 | 33.6 | 30.7 | 27.9 | 25.1 | 19.5 | 14.0 | 11.2 | 8.4 |
| 82.5° | 27.9 | 25.1 | 22.3 | 19.5 | 16.8 | 14.0 | 11.2 | 11.2 | 8.4 | 5.6 | 2.8 |
| 85° | 14.0 | 11.2 | 8.4 | 8.4 | 5.6 | 5.6 | 5.6 | 2.8 | 2.8 | 2.8 | 2.8 |
| 87.5° | 5.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 |
| 2.5° | 1862.5 | 1859.6 | 1857.0 | 1854.2 | 1854.2 | 1848.5 | 1848.5 | 1845.7 | 1840.1 | 1837.3 | 1837.3 |
| 5° | 1845.7 | 1837.3 | 1831.7 | 1828.9 | 1826.1 | 1817.8 | 1815.0 | 1809.4 | 1803.8 | 1798.2 | 1795.4 |
| 7.5° | 1820.6 | 1806.6 | 1801.0 | 1798.2 | 1789.7 | 1781.4 | 1775.8 | 1767.4 | 1759.0 | 1750.7 | 1747.9 |
| 10° | 1789.7 | 1775.8 | 1761.8 | 1756.2 | 1747.9 | 1742.3 | 1731.1 | 1719.8 | 1711.5 | 1703.1 | 1694.7 |
| 12.5° | 1750.7 | 1733.9 | 1719.8 | 1714.3 | 1705.9 | 1694.7 | 1678.0 | 1672.4 | 1658.3 | 1652.7 | 1641.6 |
| 15° | 1705.9 | 1686.3 | 1672.4 | 1664.0 | 1655.5 | 1638.8 | 1627.6 | 1616.4 | 1602.5 | 1596.9 | 1585.6 |
| 17.5° | 1649.9 | 1627.6 | 1613.6 | 1605.3 | 1599.7 | 1585.6 | 1568.9 | 1554.9 | 1540.9 | 1535.2 | 1526.9 |
| 20° | 1582.8 | 1568.9 | 1549.3 | 1540.9 | 1535.2 | 1518.5 | 1501.7 | 1496.2 | 1485.0 | 1473.8 | 1465.3 |
| 22.5° | 1507.3 | 1493.4 | 1473.8 | 1465.3 | 1462.5 | 1448.6 | 1434.6 | 1426.2 | 1417.9 | 1409.5 | 1401.0 |
| 25° | 1429.0 | 1412.3 | 1395.4 | 1389.9 | 1384.3 | 1373.1 | 1361.9 | 1356.3 | 1348.0 | 1342.4 | 1336.8 |
| 27.5° | 1345.2 | 1328.3 | 1314.4 | 1306.0 | 1300.4 | 1292.0 | 1286.4 | 1280.9 | 1275.3 | 1269.7 | 1266.8 |
| 30° | 1255.6 | 1238.9 | 1227.7 | 1222.1 | 1216.5 | 1213.7 | 1205.4 | 1202.6 | 1199.7 | 1194.1 | 1196.9 |
| 32.5° | 1166.2 | 1152.2 | 1140.9 | 1132.6 | 1132.6 | 1127.0 | 1124.2 | 1124.2 | 1121.4 | 1121.4 | 1121.4 |
| 35° | 1068.2 | 1059.9 | 1051.5 | 1048.7 | 1045.9 | 1043.1 | 1040.3 | 1043.1 | 1040.3 | 1043.1 | 1045.9 |
| 37.5° | 978.8 | 970.4 | 964.8 | 962.0 | 959.2 | 962.0 | 959.2 | 959.2 | 962.0 | 967.6 | 970.4 |
| 40° | 886.5 | 881.0 | 875.3 | 878.2 | 875.3 | 875.3 | 875.3 | 883.8 | 886.5 | 889.3 | 892.1 |
| 42.5° | 799.8 | 794.2 | 791.4 | 791.4 | 794.2 | 791.4 | 797.0 | 799.8 | 805.4 | 813.7 | 819.4 |
| 45° | 715.9 | 713.1 | 713.1 | 715.9 | 713.1 | 718.7 | 718.7 | 724.3 | 732.7 | 738.3 | 743.8 |
| 47.5° | 637.6 | 637.6 | 637.6 | 640.4 | 640.4 | 643.2 | 648.8 | 651.6 | 657.2 | 662.8 | 668.3 |
| 50° | 564.9 | 567.7 | 570.5 | 570.5 | 570.5 | 576.1 | 581.7 | 584.5 | 587.3 | 590.1 | 598.4 |
| 52.5° | 500.6 | 503.4 | 503.4 | 506.2 | 509.0 | 511.8 | 514.6 | 520.2 | 523.0 | 528.5 | 531.3 |
| 55° | 439.1 | 439.1 | 444.7 | 447.5 | 447.5 | 447.5 | 453.0 | 453.0 | 458.6 | 461.4 | 467.0 |
| 57.5° | 380.3 | 383.1 | 383.1 | 385.9 | 385.9 | 388.7 | 391.5 | 394.3 | 397.1 | 399.9 | 402.7 |
| 60° | 324.4 | 324.4 | 324.4 | 327.2 | 330.0 | 332.8 | 330.0 | 335.6 | 335.6 | 341.2 | 343.9 |
| 62.5° | 271.2 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 276.8 | 279.6 | 282.4 | 285.2 |
| 65° | 220.9 | 220.9 | 220.9 | 218.1 | 220.9 | 218.1 | 220.9 | 223.7 | 223.7 | 226.6 | 229.4 |
| 67.5° | 170.6 | 170.6 | 164.9 | 164.9 | 167.8 | 167.8 | 167.8 | 167.8 | 164.9 | 170.6 | 170.6 |
| 70° | 123.1 | 120.3 | 117.5 | 114.7 | 114.7 | 111.9 | 111.9 | 109.1 | 109.1 | 109.1 | 109.1 |
| 72.5° | 81.1 | 75.5 | 69.9 | 67.1 | 64.3 | 64.3 | 58.7 | 55.9 | 58.7 | 58.7 | 58.7 |
| 75° | 42.0 | 36.4 | 33.6 | 30.7 | 27.9 | 27.9 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 |
| 77.5° | 16.8 | 14.0 | 11.2 | 11.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 80° | 5.6 | 5.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 85° | 2.8 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P584861

CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 | 1870.9 |
| 2.5° | 1834.5 | 1834.5 | 1831.7 | 1834.5 | 1828.9 | 1831.7 | 1828.9 | 1828.9 |
| 5° | 1792.5 | 1787.1 | 1787.1 | 1787.1 | 1784.2 | 1784.2 | 1781.4 | 1781.4 |
| 7.5° | 1742.3 | 1739.5 | 1736.7 | 1733.9 | 1731.1 | 1728.2 | 1728.2 | 1728.2 |
| 10° | 1691.9 | 1686.3 | 1686.3 | 1683.5 | 1678.0 | 1675.2 | 1675.2 | 1675.2 |
| 12.5° | 1633.2 | 1630.4 | 1627.6 | 1627.6 | 1616.4 | 1619.2 | 1616.4 | 1616.4 |
| 15° | 1577.2 | 1574.4 | 1574.4 | 1566.1 | 1560.5 | 1560.5 | 1560.5 | 1557.7 |
| 17.5° | 1518.5 | 1515.7 | 1512.9 | 1507.3 | 1501.7 | 1501.7 | 1498.9 | 1501.7 |
| 20° | 1457.0 | 1454.2 | 1448.6 | 1448.6 | 1445.8 | 1443.0 | 1437.4 | 1440.2 |
| 22.5° | 1395.4 | 1389.9 | 1387.1 | 1387.1 | 1384.3 | 1384.3 | 1378.7 | 1378.7 |
| 25° | 1331.1 | 1328.3 | 1325.5 | 1328.3 | 1322.7 | 1322.7 | 1317.2 | 1317.2 |
| 27.5° | 1264.0 | 1261.2 | 1261.2 | 1261.2 | 1258.4 | 1261.2 | 1258.4 | 1258.4 |
| 30° | 1196.9 | 1196.9 | 1194.1 | 1194.1 | 1196.9 | 1194.1 | 1196.9 | 1199.7 |
| 32.5° | 1124.2 | 1124.2 | 1127.0 | 1127.0 | 1129.8 | 1129.8 | 1129.8 | 1129.8 |
| 35° | 1048.7 | 1054.3 | 1054.3 | 1057.1 | 1059.9 | 1062.7 | 1062.7 | 1065.4 |
| 37.5° | 978.8 | 981.6 | 984.4 | 987.2 | 992.8 | 992.8 | 992.8 | 992.8 |
| 40° | 903.3 | 906.1 | 911.7 | 908.9 | 920.1 | 922.8 | 920.1 | 920.1 |
| 42.5° | 825.0 | 830.6 | 833.4 | 839.0 | 841.8 | 847.4 | 850.1 | 850.1 |
| 45° | 752.3 | 755.1 | 760.7 | 766.3 | 769.1 | 777.4 | 777.4 | 777.4 |
| 47.5° | 676.7 | 682.3 | 685.2 | 690.8 | 693.6 | 702.0 | 704.7 | 702.0 |
| 50° | 604.0 | 609.6 | 615.2 | 615.2 | 623.7 | 626.5 | 632.0 | 634.8 |
| 52.5° | 534.1 | 536.9 | 542.5 | 545.3 | 550.9 | 556.6 | 559.4 | 562.1 |
| 55° | 467.0 | 469.8 | 475.4 | 475.4 | 483.8 | 486.7 | 492.1 | 492.1 |
| 57.5° | 405.5 | 408.3 | 413.9 | 411.1 | 416.6 | 422.2 | 422.2 | 419.4 |
| 60° | 346.7 | 346.7 | 346.7 | 352.3 | 355.1 | 357.9 | 360.8 | 360.8 |
| 62.5° | 285.2 | 290.8 | 293.7 | 293.7 | 296.5 | 299.3 | 299.3 | 296.5 |
| 65° | 229.4 | 234.9 | 237.7 | 237.7 | 240.5 | 240.5 | 240.5 | 243.3 |
| 67.5° | 173.4 | 173.4 | 173.4 | 176.2 | 173.4 | 173.4 | 173.4 | 173.4 |
| 70° | 109.1 | 109.1 | 109.1 | 109.1 | 106.3 | 109.1 | 109.1 | 111.9 |
| 72.5° | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 |
| 75° | 25.1 | 25.1 | 25.1 | 27.9 | 25.1 | 25.1 | 25.1 | 25.1 |
| 77.5° | 11.2 | 8.4 | 11.2 | 11.2 | 8.4 | 8.4 | 8.4 | 8.4 |
| 80° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 85° | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)