

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: P584863

Luminaire Tested: **HCC8W50D010BZ-HM82555927-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010BZ-HM82555927-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

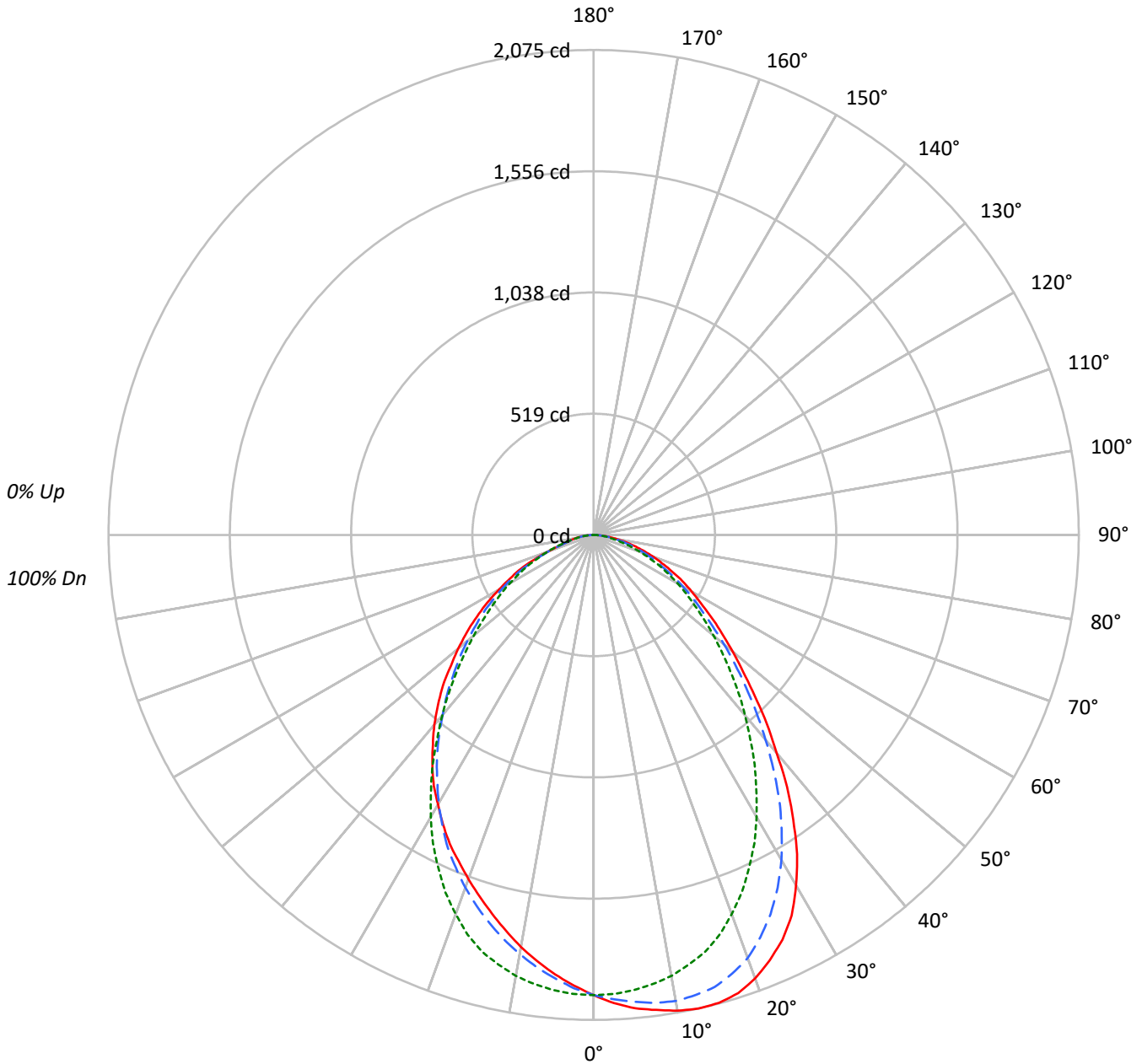
Lumens per Lamp: N/A  
Luminaire Lumens: 3960.4 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### Luminous Intensity Polar Plot



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**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 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |    |    | 87  |   |  |   |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |    |    | 75  |   |  |   |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |    |    | 65  |   |  |   |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |    |    |    |    | 57  |   |  |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |    |    |    |    | 37  |   |  |   |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    |    | 30  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 60720 | 60720 | 60720 |
| 5°  | 62945 | 60521 | 58438 |
| 10° | 64722 | 59994 | 56052 |
| 15° | 66166 | 58935 | 53575 |
| 20° | 66267 | 56633 | 51399 |
| 25° | 65000 | 53486 | 49583 |
| 30° | 61649 | 49597 | 47407 |
| 35° | 56015 | 45173 | 45275 |
| 40° | 48977 | 40536 | 42669 |
| 45° | 42445 | 36104 | 39763 |
| 50° | 37169 | 32065 | 36229 |
| 55° | 33085 | 28418 | 32784 |
| 60° | 29837 | 25526 | 28807 |
| 65° | 26939 | 22451 | 25100 |
| 70° | 24208 | 18906 | 18663 |
| 75° | 21326 | 15000 | 13999 |
| 80° | 17882 | 12413 | 13407 |
| 85° | 13869 | 10862 | 11888 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.8  | 4.7       |
| 10°-20°   | 523.2  | 13.2      |
| 20°-30°   | 747.7  | 18.9      |
| 30°-40°   | 794.5  | 20.1      |
| 40°-50°   | 684.1  | 17.3      |
| 50°-60°   | 511.4  | 12.9      |
| 60°-70°   | 326.2  | 8.2       |
| 70°-80°   | 148.5  | 3.7       |
| 80°-90°   | 39.0   | 1.0       |
| 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°    | 1456.7 | 36.8      |
| 0°-40°    | 2251.2 | 56.8      |
| 0°-60°    | 3446.7 | 87.0      |
| 0°-90°    | 3960.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3960.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1969 | 1969 | 1969 | 1969 | 1969 |      |
| 5°  | 2034 | 2005 | 1955 | 1905 | 1888 | 195  |
| 15° | 2073 | 2003 | 1846 | 1720 | 1678 | 584  |
| 25° | 1910 | 1790 | 1572 | 1477 | 1457 | 874  |
| 35° | 1488 | 1385 | 1200 | 1169 | 1203 | 927  |
| 45° | 973  | 920  | 828  | 850  | 912  | 757  |
| 55° | 615  | 565  | 529  | 573  | 610  | 553  |
| 65° | 369  | 327  | 308  | 322  | 344  | 368  |
| 75° | 179  | 154  | 126  | 115  | 118  | 190  |
| 85° | 39   | 34   | 31   | 34   | 34   | 47   |
| 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°    | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 |
| 2.5°  | 2005.4 | 1999.9 | 2002.6 | 1999.9 | 2002.6 | 2002.6 | 1997.1 | 1997.1 | 1997.1 | 1997.1 | 1988.7 |
| 5°    | 2033.5 | 2030.7 | 2030.7 | 2027.9 | 2025.1 | 2027.9 | 2025.1 | 2022.3 | 2016.6 | 2013.8 | 2005.4 |
| 7.5°  | 2050.2 | 2050.2 | 2050.2 | 2050.2 | 2047.4 | 2044.6 | 2041.8 | 2036.3 | 2030.7 | 2025.1 | 2019.4 |
| 10°   | 2067.0 | 2069.8 | 2067.0 | 2064.2 | 2061.4 | 2055.8 | 2053.0 | 2047.4 | 2039.1 | 2030.7 | 2025.1 |
| 12.5° | 2075.4 | 2075.4 | 2072.6 | 2072.6 | 2067.0 | 2064.2 | 2055.8 | 2047.4 | 2039.1 | 2030.7 | 2016.6 |
| 15°   | 2072.6 | 2072.6 | 2069.8 | 2067.0 | 2058.6 | 2055.8 | 2050.2 | 2041.8 | 2027.9 | 2016.6 | 2002.6 |
| 17.5° | 2055.8 | 2053.0 | 2047.4 | 2047.4 | 2036.3 | 2033.5 | 2027.9 | 2016.6 | 2002.6 | 1985.9 | 1969.1 |
| 20°   | 2019.4 | 2019.4 | 2016.6 | 2013.8 | 2002.6 | 1994.3 | 1988.7 | 1974.7 | 1963.5 | 1943.9 | 1927.1 |
| 22.5° | 1969.1 | 1974.7 | 1969.1 | 1963.5 | 1949.5 | 1946.7 | 1938.3 | 1921.6 | 1904.8 | 1882.4 | 1862.8 |
| 25°   | 1910.4 | 1907.6 | 1904.8 | 1899.2 | 1887.9 | 1882.4 | 1871.2 | 1854.4 | 1837.7 | 1812.4 | 1790.1 |
| 27.5° | 1834.9 | 1823.6 | 1823.6 | 1812.4 | 1804.1 | 1795.7 | 1790.1 | 1773.3 | 1750.9 | 1731.4 | 1703.3 |
| 30°   | 1731.4 | 1734.2 | 1720.2 | 1717.4 | 1703.3 | 1697.7 | 1686.6 | 1669.8 | 1650.3 | 1627.8 | 1605.5 |
| 32.5° | 1619.5 | 1611.1 | 1611.1 | 1599.9 | 1588.7 | 1580.4 | 1577.6 | 1557.9 | 1541.2 | 1518.8 | 1496.4 |
| 35°   | 1488.0 | 1488.0 | 1479.6 | 1476.8 | 1465.7 | 1460.1 | 1451.7 | 1440.4 | 1420.9 | 1401.3 | 1384.6 |
| 37.5° | 1359.3 | 1353.7 | 1351.0 | 1345.4 | 1337.0 | 1328.6 | 1328.6 | 1309.0 | 1306.2 | 1283.8 | 1261.5 |
| 40°   | 1216.7 | 1222.3 | 1216.7 | 1208.3 | 1205.5 | 1200.0 | 1197.2 | 1186.0 | 1177.5 | 1158.0 | 1144.0 |
| 42.5° | 1096.4 | 1090.8 | 1090.8 | 1088.0 | 1076.9 | 1076.9 | 1071.3 | 1065.7 | 1051.6 | 1046.1 | 1029.3 |
| 45°   | 973.3  | 978.9  | 970.6  | 973.3  | 962.2  | 962.2  | 962.2  | 951.0  | 939.8  | 931.5  | 920.2  |
| 47.5° | 867.0  | 869.9  | 869.9  | 861.4  | 858.6  | 858.6  | 853.1  | 847.5  | 839.1  | 827.9  | 819.5  |
| 50°   | 774.8  | 777.6  | 772.0  | 769.2  | 763.6  | 760.8  | 760.8  | 749.6  | 744.0  | 732.8  | 727.2  |
| 52.5° | 690.9  | 690.9  | 688.1  | 688.1  | 679.7  | 679.7  | 674.0  | 665.7  | 660.1  | 654.5  | 640.5  |
| 55°   | 615.4  | 615.4  | 612.6  | 609.8  | 609.8  | 601.3  | 598.5  | 590.2  | 584.6  | 573.4  | 565.0  |
| 57.5° | 542.6  | 545.5  | 542.6  | 539.8  | 537.0  | 534.2  | 528.6  | 520.2  | 514.6  | 506.3  | 500.7  |
| 60°   | 483.8  | 483.8  | 481.0  | 478.2  | 472.7  | 469.9  | 467.1  | 461.5  | 453.1  | 447.5  | 439.1  |
| 62.5° | 428.0  | 425.2  | 422.4  | 419.6  | 413.9  | 413.9  | 408.3  | 402.7  | 394.4  | 388.8  | 383.2  |
| 65°   | 369.2  | 369.2  | 366.4  | 366.4  | 363.6  | 358.1  | 355.3  | 352.5  | 341.2  | 338.4  | 327.2  |
| 67.5° | 316.1  | 318.9  | 313.3  | 313.3  | 307.7  | 307.7  | 304.9  | 296.5  | 293.7  | 288.0  | 282.5  |
| 70°   | 268.5  | 268.5  | 268.5  | 265.7  | 260.1  | 257.3  | 254.5  | 248.9  | 246.2  | 240.6  | 235.0  |
| 72.5° | 220.9  | 220.9  | 218.1  | 218.1  | 215.3  | 212.5  | 209.7  | 204.2  | 204.2  | 198.6  | 193.0  |
| 75°   | 179.0  | 179.0  | 176.2  | 173.4  | 170.7  | 170.7  | 167.9  | 165.1  | 159.5  | 156.6  | 153.8  |
| 77.5° | 137.0  | 137.0  | 137.0  | 134.2  | 131.5  | 131.5  | 131.5  | 125.9  | 120.3  | 120.3  | 117.5  |
| 80°   | 100.7  | 100.7  | 97.8   | 97.8   | 95.2   | 95.2   | 95.2   | 92.4   | 89.5   | 86.7   | 83.9   |
| 82.5° | 67.1   | 67.1   | 67.1   | 67.1   | 64.3   | 64.3   | 64.3   | 61.5   | 58.7   | 58.7   | 58.7   |
| 85°   | 39.2   | 39.2   | 39.2   | 39.2   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 33.6   | 33.6   |
| 87.5° | 16.8   | 14.0   | 16.8   | 14.0   | 16.8   | 14.0   | 16.8   | 14.0   | 14.0   | 14.0   | 14.0   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 |
| 2.5°  | 1991.5 | 1988.7 | 1985.9 | 1983.1 | 1983.1 | 1980.3 | 1974.7 | 1971.9 | 1969.1 | 1966.3 | 1966.3 |
| 5°    | 2002.6 | 1999.9 | 1994.3 | 1988.7 | 1985.9 | 1980.3 | 1974.7 | 1969.1 | 1963.5 | 1955.2 | 1952.3 |
| 7.5°  | 2011.0 | 2002.6 | 1997.1 | 1985.9 | 1983.1 | 1977.5 | 1969.1 | 1960.8 | 1949.5 | 1938.3 | 1929.9 |
| 10°   | 2011.0 | 1999.9 | 1991.5 | 1977.5 | 1971.9 | 1966.3 | 1955.2 | 1941.1 | 1927.1 | 1916.0 | 1902.0 |
| 12.5° | 2005.4 | 1991.5 | 1977.5 | 1963.5 | 1955.2 | 1946.7 | 1929.9 | 1916.0 | 1899.2 | 1882.4 | 1871.2 |
| 15°   | 1985.9 | 1969.1 | 1952.3 | 1935.5 | 1927.1 | 1916.0 | 1899.2 | 1879.6 | 1862.8 | 1846.1 | 1826.4 |
| 17.5° | 1949.5 | 1932.7 | 1913.2 | 1893.5 | 1882.4 | 1874.0 | 1848.8 | 1834.9 | 1809.7 | 1792.9 | 1776.1 |
| 20°   | 1902.0 | 1882.4 | 1857.2 | 1837.7 | 1823.6 | 1815.2 | 1795.7 | 1770.6 | 1750.9 | 1725.8 | 1709.0 |
| 22.5° | 1840.5 | 1815.2 | 1790.1 | 1770.6 | 1756.5 | 1745.3 | 1720.2 | 1695.0 | 1678.2 | 1655.9 | 1636.2 |
| 25°   | 1767.8 | 1742.5 | 1717.4 | 1689.4 | 1675.4 | 1664.2 | 1641.9 | 1619.5 | 1597.1 | 1572.0 | 1555.1 |
| 27.5° | 1681.0 | 1653.1 | 1630.6 | 1605.5 | 1591.5 | 1574.8 | 1549.5 | 1527.2 | 1504.9 | 1488.0 | 1465.7 |
| 30°   | 1585.9 | 1555.1 | 1532.8 | 1507.5 | 1493.6 | 1479.6 | 1454.5 | 1432.0 | 1412.5 | 1392.9 | 1381.8 |
| 32.5° | 1471.2 | 1448.9 | 1426.5 | 1401.3 | 1390.2 | 1381.8 | 1356.5 | 1334.2 | 1311.9 | 1295.0 | 1286.6 |
| 35°   | 1362.1 | 1337.0 | 1317.3 | 1295.0 | 1281.0 | 1272.7 | 1250.2 | 1230.7 | 1219.5 | 1200.0 | 1188.8 |
| 37.5° | 1247.4 | 1227.9 | 1205.5 | 1183.1 | 1174.7 | 1166.3 | 1149.6 | 1130.0 | 1113.2 | 1099.2 | 1093.6 |
| 40°   | 1127.1 | 1110.4 | 1090.8 | 1076.9 | 1068.5 | 1060.0 | 1046.1 | 1032.1 | 1020.9 | 1007.0 | 1001.4 |
| 42.5° | 1012.5 | 1001.4 | 984.5  | 967.8  | 959.4  | 956.6  | 939.8  | 928.7  | 923.0  | 917.4  | 911.8  |
| 45°   | 909.0  | 892.3  | 881.1  | 869.9  | 861.4  | 855.9  | 847.5  | 839.1  | 833.5  | 827.9  | 822.3  |
| 47.5° | 808.4  | 794.3  | 783.1  | 774.8  | 766.4  | 763.6  | 758.0  | 749.6  | 744.0  | 744.0  | 744.0  |
| 50°   | 716.0  | 704.9  | 693.7  | 688.1  | 685.3  | 679.7  | 674.0  | 671.2  | 668.4  | 668.4  | 668.4  |
| 52.5° | 634.9  | 623.8  | 615.4  | 609.8  | 609.8  | 604.1  | 598.5  | 595.7  | 595.7  | 595.7  | 595.7  |
| 55°   | 559.4  | 551.1  | 545.5  | 539.8  | 534.2  | 531.4  | 531.4  | 531.4  | 528.6  | 528.6  | 531.4  |
| 57.5° | 492.3  | 486.7  | 478.2  | 472.7  | 469.9  | 469.9  | 467.1  | 464.3  | 467.1  | 469.9  | 472.7  |
| 60°   | 430.8  | 425.2  | 422.4  | 413.9  | 413.9  | 413.9  | 411.1  | 411.1  | 411.1  | 413.9  | 416.7  |
| 62.5° | 374.8  | 372.0  | 366.4  | 363.6  | 360.9  | 360.9  | 358.1  | 358.1  | 358.1  | 358.1  | 360.9  |
| 65°   | 324.4  | 318.9  | 313.3  | 313.3  | 313.3  | 310.5  | 310.5  | 304.9  | 307.7  | 307.7  | 304.9  |
| 67.5° | 276.9  | 271.3  | 268.5  | 265.7  | 262.9  | 262.9  | 260.1  | 257.3  | 254.5  | 254.5  | 254.5  |
| 70°   | 232.2  | 226.6  | 226.6  | 220.9  | 220.9  | 218.1  | 215.3  | 215.3  | 212.5  | 209.7  | 207.0  |
| 72.5° | 187.4  | 184.6  | 181.8  | 179.0  | 179.0  | 179.0  | 176.2  | 173.4  | 170.7  | 167.9  | 162.3  |
| 75°   | 148.2  | 148.2  | 142.6  | 139.8  | 139.8  | 137.0  | 134.2  | 131.5  | 128.7  | 125.9  | 123.1  |
| 77.5° | 114.7  | 111.9  | 106.3  | 103.5  | 103.5  | 103.5  | 100.7  | 97.8   | 95.2   | 92.4   | 89.5   |
| 80°   | 83.9   | 81.1   | 78.3   | 75.5   | 75.5   | 75.5   | 72.7   | 72.7   | 69.9   | 69.9   | 69.9   |
| 82.5° | 56.0   | 56.0   | 53.2   | 53.2   | 53.2   | 53.2   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   |
| 85°   | 33.6   | 33.6   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   |
| 87.5° | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   |
| 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°    | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 |
| 2.5°  | 1960.8 | 1960.8 | 1955.2 | 1952.3 | 1949.5 | 1952.3 | 1946.7 | 1943.9 | 1941.1 | 1941.1 | 1938.3 |
| 5°    | 1943.9 | 1941.1 | 1929.9 | 1927.1 | 1924.4 | 1921.6 | 1916.0 | 1910.4 | 1904.8 | 1902.0 | 1899.2 |
| 7.5°  | 1921.6 | 1913.2 | 1902.0 | 1899.2 | 1896.4 | 1887.9 | 1879.6 | 1874.0 | 1865.6 | 1862.8 | 1857.2 |
| 10°   | 1890.7 | 1879.6 | 1871.2 | 1862.8 | 1857.2 | 1848.8 | 1840.5 | 1832.1 | 1820.8 | 1818.0 | 1809.7 |
| 12.5° | 1854.4 | 1840.5 | 1823.6 | 1820.8 | 1812.4 | 1801.3 | 1790.1 | 1781.7 | 1773.3 | 1767.8 | 1759.3 |
| 15°   | 1809.7 | 1795.7 | 1778.9 | 1770.6 | 1762.2 | 1753.7 | 1739.7 | 1728.6 | 1720.2 | 1711.8 | 1703.3 |
| 17.5° | 1756.5 | 1739.7 | 1725.8 | 1717.4 | 1711.8 | 1697.7 | 1686.6 | 1672.6 | 1664.2 | 1655.9 | 1647.5 |
| 20°   | 1692.2 | 1678.2 | 1658.6 | 1650.3 | 1647.5 | 1636.2 | 1622.2 | 1616.7 | 1605.5 | 1597.1 | 1591.5 |
| 22.5° | 1619.5 | 1605.5 | 1588.7 | 1583.1 | 1572.0 | 1566.3 | 1552.3 | 1546.7 | 1541.2 | 1532.8 | 1530.0 |
| 25°   | 1538.4 | 1524.4 | 1510.3 | 1507.5 | 1499.2 | 1493.6 | 1485.2 | 1476.8 | 1476.8 | 1468.4 | 1468.4 |
| 27.5° | 1454.5 | 1440.4 | 1429.3 | 1423.7 | 1420.9 | 1415.3 | 1406.9 | 1404.1 | 1401.3 | 1398.5 | 1398.5 |
| 30°   | 1364.9 | 1348.2 | 1342.6 | 1339.8 | 1337.0 | 1331.4 | 1328.6 | 1323.0 | 1325.8 | 1328.6 | 1325.8 |
| 32.5° | 1269.9 | 1264.3 | 1253.1 | 1247.4 | 1250.2 | 1247.4 | 1241.8 | 1247.4 | 1244.6 | 1250.2 | 1253.1 |
| 35°   | 1177.5 | 1171.9 | 1166.3 | 1166.3 | 1160.8 | 1160.8 | 1160.8 | 1163.5 | 1169.1 | 1171.9 | 1177.5 |
| 37.5° | 1088.0 | 1079.7 | 1076.9 | 1074.1 | 1076.9 | 1076.9 | 1076.9 | 1082.5 | 1088.0 | 1093.6 | 1102.0 |
| 40°   | 992.9  | 987.3  | 987.3  | 987.3  | 987.3  | 995.8  | 992.9  | 998.6  | 1004.2 | 1012.5 | 1020.9 |
| 42.5° | 903.4  | 903.4  | 906.2  | 906.2  | 906.2  | 906.2  | 911.8  | 920.2  | 928.7  | 937.0  | 945.4  |
| 45°   | 819.5  | 819.5  | 819.5  | 825.1  | 825.1  | 827.9  | 839.1  | 844.7  | 850.3  | 858.6  | 867.0  |
| 47.5° | 741.3  | 741.3  | 744.0  | 746.8  | 749.6  | 755.2  | 760.8  | 769.2  | 777.6  | 783.1  | 791.5  |
| 50°   | 668.4  | 671.2  | 676.9  | 682.5  | 682.5  | 685.3  | 693.7  | 699.3  | 704.9  | 713.2  | 716.0  |
| 52.5° | 598.5  | 604.1  | 609.8  | 612.6  | 615.4  | 621.0  | 623.8  | 632.1  | 634.9  | 643.3  | 646.1  |
| 55°   | 534.2  | 537.0  | 545.5  | 548.3  | 548.3  | 553.8  | 559.4  | 565.0  | 573.4  | 573.4  | 579.0  |
| 57.5° | 475.5  | 478.2  | 483.8  | 486.7  | 483.8  | 492.3  | 495.1  | 500.7  | 503.5  | 509.1  | 511.9  |
| 60°   | 416.7  | 422.4  | 425.2  | 425.2  | 428.0  | 430.8  | 436.4  | 436.4  | 441.9  | 447.5  | 447.5  |
| 62.5° | 360.9  | 363.6  | 366.4  | 369.2  | 372.0  | 369.2  | 377.6  | 377.6  | 383.2  | 386.0  | 391.6  |
| 65°   | 307.7  | 310.5  | 310.5  | 313.3  | 313.3  | 316.1  | 316.1  | 318.9  | 321.7  | 327.2  | 330.0  |
| 67.5° | 254.5  | 254.5  | 254.5  | 257.3  | 254.5  | 257.3  | 257.3  | 260.1  | 260.1  | 265.7  | 268.5  |
| 70°   | 207.0  | 204.2  | 201.4  | 201.4  | 201.4  | 201.4  | 198.6  | 201.4  | 201.4  | 204.2  | 204.2  |
| 72.5° | 159.5  | 156.6  | 153.8  | 151.0  | 151.0  | 148.2  | 145.4  | 148.2  | 148.2  | 151.0  | 151.0  |
| 75°   | 120.3  | 114.7  | 114.7  | 114.7  | 111.9  | 111.9  | 111.9  | 114.7  | 114.7  | 114.7  | 117.5  |
| 77.5° | 89.5   | 89.5   | 86.7   | 86.7   | 86.7   | 89.5   | 89.5   | 92.4   | 92.4   | 92.4   | 92.4   |
| 80°   | 67.1   | 69.9   | 69.9   | 69.9   | 69.9   | 72.7   | 72.7   | 72.7   | 72.7   | 75.5   | 75.5   |
| 82.5° | 50.4   | 50.4   | 50.4   | 50.4   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   |
| 85°   | 30.7   | 33.6   | 33.6   | 30.7   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   |
| 87.5° | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   |
| 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: P584863

CATALOG NUMBER: HCC8W50D010BZ-HM82555927-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 | 1969.1 |
| 2.5°  | 1935.5 | 1935.5 | 1935.5 | 1935.5 | 1932.7 | 1932.7 | 1932.7 | 1929.9 |
| 5°    | 1893.5 | 1893.5 | 1893.5 | 1887.9 | 1890.7 | 1890.7 | 1885.2 | 1887.9 |
| 7.5°  | 1851.6 | 1848.8 | 1846.1 | 1846.1 | 1843.3 | 1840.5 | 1837.7 | 1840.5 |
| 10°   | 1804.1 | 1795.7 | 1795.7 | 1792.9 | 1792.9 | 1787.3 | 1787.3 | 1790.1 |
| 12.5° | 1750.9 | 1745.3 | 1745.3 | 1742.5 | 1739.7 | 1736.9 | 1734.2 | 1734.2 |
| 15°   | 1697.7 | 1692.2 | 1689.4 | 1686.6 | 1683.8 | 1678.2 | 1681.0 | 1678.2 |
| 17.5° | 1644.7 | 1636.2 | 1636.2 | 1633.4 | 1630.6 | 1625.0 | 1625.0 | 1622.2 |
| 20°   | 1583.1 | 1580.4 | 1574.8 | 1577.6 | 1574.8 | 1569.1 | 1566.3 | 1566.3 |
| 22.5° | 1521.6 | 1521.6 | 1518.8 | 1518.8 | 1516.0 | 1513.2 | 1510.3 | 1510.3 |
| 25°   | 1462.9 | 1460.1 | 1462.9 | 1462.9 | 1454.5 | 1454.5 | 1454.5 | 1457.3 |
| 27.5° | 1395.7 | 1398.5 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1398.5 | 1395.7 |
| 30°   | 1328.6 | 1328.6 | 1328.6 | 1331.4 | 1337.0 | 1334.2 | 1334.2 | 1331.4 |
| 32.5° | 1255.9 | 1258.7 | 1258.7 | 1261.5 | 1264.3 | 1269.9 | 1269.9 | 1272.7 |
| 35°   | 1183.1 | 1188.8 | 1191.6 | 1188.8 | 1197.2 | 1197.2 | 1202.7 | 1202.7 |
| 37.5° | 1107.6 | 1110.4 | 1116.0 | 1118.8 | 1124.5 | 1127.1 | 1130.0 | 1130.0 |
| 40°   | 1026.5 | 1037.7 | 1040.5 | 1043.3 | 1051.6 | 1051.6 | 1054.4 | 1060.0 |
| 42.5° | 951.0  | 962.2  | 965.0  | 967.8  | 973.3  | 981.7  | 978.9  | 984.5  |
| 45°   | 878.3  | 886.7  | 889.5  | 892.3  | 900.6  | 903.4  | 903.4  | 911.8  |
| 47.5° | 799.9  | 805.6  | 808.4  | 814.0  | 819.5  | 825.1  | 830.7  | 827.9  |
| 50°   | 721.6  | 730.0  | 735.7  | 738.5  | 746.8  | 749.6  | 752.4  | 755.2  |
| 52.5° | 651.7  | 657.3  | 660.1  | 662.9  | 671.2  | 674.0  | 676.9  | 682.5  |
| 55°   | 584.6  | 587.4  | 592.9  | 590.2  | 598.5  | 601.3  | 604.1  | 609.8  |
| 57.5° | 517.4  | 520.2  | 523.0  | 523.0  | 528.6  | 534.2  | 537.0  | 539.8  |
| 60°   | 453.1  | 458.7  | 461.5  | 461.5  | 461.5  | 467.1  | 467.1  | 467.1  |
| 62.5° | 394.4  | 394.4  | 397.2  | 397.2  | 402.7  | 402.7  | 402.7  | 402.7  |
| 65°   | 332.8  | 335.6  | 338.4  | 338.4  | 344.0  | 341.2  | 346.8  | 344.0  |
| 67.5° | 268.5  | 268.5  | 274.1  | 274.1  | 271.3  | 274.1  | 274.1  | 274.1  |
| 70°   | 204.2  | 204.2  | 207.0  | 207.0  | 207.0  | 207.0  | 207.0  | 207.0  |
| 72.5° | 151.0  | 151.0  | 151.0  | 153.8  | 151.0  | 151.0  | 153.8  | 151.0  |
| 75°   | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  |
| 77.5° | 92.4   | 92.4   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   |
| 80°   | 75.5   | 75.5   | 75.5   | 75.5   | 78.3   | 75.5   | 75.5   | 75.5   |
| 82.5° | 56.0   | 53.2   | 56.0   | 53.2   | 56.0   | 56.0   | 56.0   | 56.0   |
| 85°   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   | 33.6   |
| 87.5° | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   |
| 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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



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

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(END OF REPORT)