

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: P584540

Luminaire Tested: **HCC8W40D010BZ-HM82555830-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584540  
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: HCC8W40D010BZ-HM82555830-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

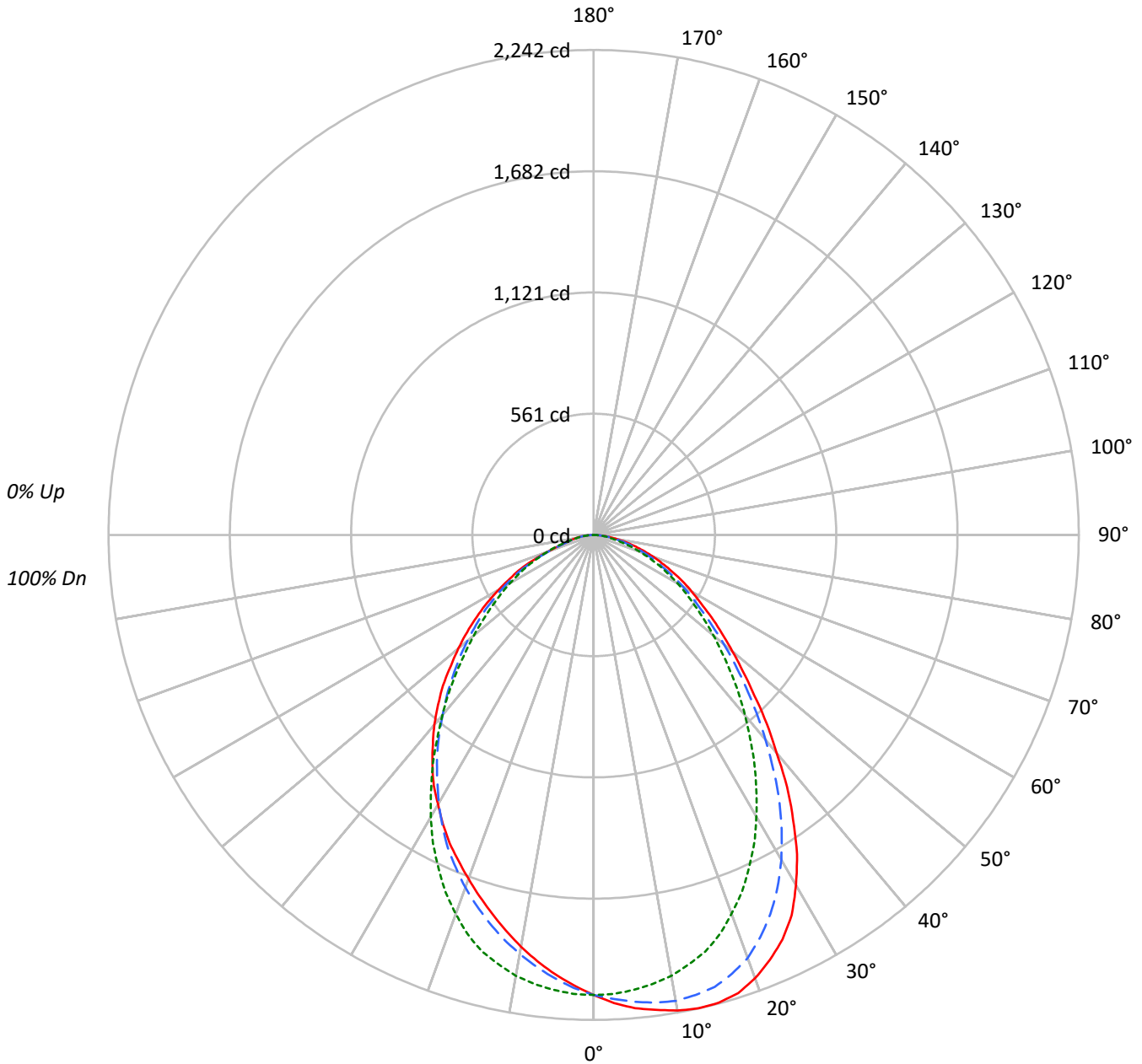
Lumens per Lamp: N/A  
Luminaire Lumens: 4277.7 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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



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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 | 0  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |  |  |  |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |    |  |  |  |  |   |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |    |  |  |  |  |   |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |    |    |    |  |  |  |  |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |    |  |  |  |  |   |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |    |  |  |  |  |   |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |    |  |  |  |  |   |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |    |    |    |  |  |  |  |   |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |  |  |  |  |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 65586 | 65586 | 65586 |
| 5°  | 67988 | 65369 | 63125 |
| 10° | 69910 | 64800 | 60542 |
| 15° | 71468 | 63657 | 57869 |
| 20° | 71580 | 61168 | 55517 |
| 25° | 70209 | 57770 | 53554 |
| 30° | 66588 | 53570 | 51206 |
| 35° | 60502 | 48787 | 48904 |
| 40° | 52902 | 43784 | 46091 |
| 45° | 45851 | 39000 | 42946 |
| 50° | 40144 | 34641 | 39131 |
| 55° | 35730 | 30698 | 35413 |
| 60° | 32230 | 27574 | 31120 |
| 65° | 29098 | 24254 | 27114 |
| 70° | 26146 | 20430 | 20160 |
| 75° | 23042 | 16191 | 15119 |
| 80° | 19321 | 13425 | 14473 |
| 85° | 14931 | 11746 | 12843 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 200.6  | 4.7       |
| 10°-20°   | 565.1  | 13.2      |
| 20°-30°   | 807.7  | 18.9      |
| 30°-40°   | 858.2  | 20.1      |
| 40°-50°   | 738.9  | 17.3      |
| 50°-60°   | 552.4  | 12.9      |
| 60°-70°   | 352.4  | 8.2       |
| 70°-80°   | 160.4  | 3.7       |
| 80°-90°   | 42.1   | 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°    | 1573.5 | 36.8      |
| 0°-40°    | 2431.6 | 56.8      |
| 0°-60°    | 3722.9 | 87.0      |
| 0°-90°    | 4277.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4277.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2127 | 2127 | 2127 | 2127 | 2127 |      |
| 5°  | 2196 | 2166 | 2112 | 2057 | 2039 | 210  |
| 15° | 2239 | 2163 | 1994 | 1858 | 1813 | 631  |
| 25° | 2064 | 1934 | 1698 | 1595 | 1574 | 945  |
| 35° | 1607 | 1496 | 1296 | 1263 | 1299 | 1001 |
| 45° | 1051 | 994  | 894  | 918  | 985  | 817  |
| 55° | 665  | 610  | 571  | 619  | 659  | 598  |
| 65° | 399  | 353  | 332  | 348  | 372  | 398  |
| 75° | 193  | 166  | 136  | 124  | 127  | 205  |
| 85° | 42   | 36   | 33   | 36   | 36   | 51   |
| 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°    | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 |
| 2.5°  | 2166.2 | 2160.1 | 2163.2 | 2160.1 | 2163.2 | 2163.2 | 2157.1 | 2157.1 | 2157.1 | 2157.1 | 2148.1 |
| 5°    | 2196.4 | 2193.4 | 2193.4 | 2190.3 | 2187.3 | 2190.3 | 2187.3 | 2184.4 | 2178.3 | 2175.2 | 2166.2 |
| 7.5°  | 2214.5 | 2214.5 | 2214.5 | 2214.5 | 2211.5 | 2208.5 | 2205.4 | 2199.4 | 2193.4 | 2187.3 | 2181.3 |
| 10°   | 2232.7 | 2235.7 | 2232.7 | 2229.6 | 2226.6 | 2220.5 | 2217.6 | 2211.5 | 2202.5 | 2193.4 | 2187.3 |
| 12.5° | 2241.7 | 2241.7 | 2238.7 | 2238.7 | 2232.7 | 2229.6 | 2220.5 | 2211.5 | 2202.5 | 2193.4 | 2178.3 |
| 15°   | 2238.7 | 2238.7 | 2235.7 | 2232.7 | 2223.6 | 2220.5 | 2214.5 | 2205.4 | 2190.3 | 2178.3 | 2163.2 |
| 17.5° | 2220.5 | 2217.6 | 2211.5 | 2211.5 | 2199.4 | 2196.4 | 2190.3 | 2178.3 | 2163.2 | 2145.1 | 2126.9 |
| 20°   | 2181.3 | 2181.3 | 2178.3 | 2175.2 | 2163.2 | 2154.1 | 2148.1 | 2133.0 | 2120.8 | 2099.8 | 2081.5 |
| 22.5° | 2126.9 | 2133.0 | 2126.9 | 2120.8 | 2105.7 | 2102.7 | 2093.7 | 2075.6 | 2057.4 | 2033.2 | 2012.1 |
| 25°   | 2063.5 | 2060.5 | 2057.4 | 2051.3 | 2039.3 | 2033.2 | 2021.2 | 2003.0 | 1984.9 | 1957.7 | 1933.5 |
| 27.5° | 1981.9 | 1969.8 | 1969.8 | 1957.7 | 1948.6 | 1939.6 | 1933.5 | 1915.4 | 1891.3 | 1870.1 | 1839.9 |
| 30°   | 1870.1 | 1873.2 | 1858.1 | 1855.0 | 1839.9 | 1833.9 | 1821.8 | 1803.7 | 1782.5 | 1758.3 | 1734.2 |
| 32.5° | 1749.3 | 1740.3 | 1740.3 | 1728.1 | 1716.0 | 1706.9 | 1704.0 | 1682.8 | 1664.7 | 1640.5 | 1616.4 |
| 35°   | 1607.2 | 1607.2 | 1598.2 | 1595.2 | 1583.1 | 1577.1 | 1567.9 | 1555.9 | 1534.7 | 1513.6 | 1495.5 |
| 37.5° | 1468.3 | 1462.3 | 1459.2 | 1453.2 | 1444.1 | 1435.0 | 1435.0 | 1414.0 | 1410.9 | 1386.7 | 1362.6 |
| 40°   | 1314.2 | 1320.3 | 1314.2 | 1305.2 | 1302.1 | 1296.0 | 1293.1 | 1281.0 | 1271.9 | 1250.8 | 1235.7 |
| 42.5° | 1184.3 | 1178.2 | 1178.2 | 1175.2 | 1163.1 | 1163.1 | 1157.2 | 1151.1 | 1136.0 | 1129.9 | 1111.8 |
| 45°   | 1051.4 | 1057.4 | 1048.4 | 1051.4 | 1039.2 | 1039.2 | 1039.2 | 1027.2 | 1015.1 | 1006.0 | 994.0  |
| 47.5° | 936.5  | 939.6  | 939.6  | 930.6  | 927.5  | 927.5  | 921.4  | 915.5  | 906.3  | 894.3  | 885.2  |
| 50°   | 836.8  | 839.9  | 833.8  | 830.9  | 824.8  | 821.8  | 821.8  | 809.7  | 803.6  | 791.6  | 785.5  |
| 52.5° | 746.2  | 746.2  | 743.2  | 743.2  | 734.1  | 734.1  | 728.2  | 719.0  | 713.0  | 707.0  | 691.9  |
| 55°   | 664.6  | 664.6  | 661.6  | 658.7  | 658.7  | 649.5  | 646.5  | 637.5  | 631.4  | 619.4  | 610.2  |
| 57.5° | 586.1  | 589.2  | 586.1  | 583.1  | 580.1  | 577.0  | 571.0  | 561.9  | 555.8  | 546.8  | 540.7  |
| 60°   | 522.6  | 522.6  | 519.7  | 516.6  | 510.6  | 507.5  | 504.6  | 498.5  | 489.4  | 483.4  | 474.3  |
| 62.5° | 462.2  | 459.2  | 456.2  | 453.2  | 447.1  | 447.1  | 441.1  | 435.1  | 426.0  | 420.0  | 413.9  |
| 65°   | 398.8  | 398.8  | 395.8  | 395.8  | 392.7  | 386.8  | 383.7  | 380.7  | 368.5  | 365.6  | 353.4  |
| 67.5° | 341.4  | 344.4  | 338.3  | 338.3  | 332.4  | 332.4  | 329.3  | 320.2  | 317.3  | 311.2  | 305.1  |
| 70°   | 290.0  | 290.0  | 290.0  | 287.0  | 281.0  | 278.0  | 274.9  | 268.9  | 265.8  | 259.8  | 253.8  |
| 72.5° | 238.7  | 238.7  | 235.6  | 235.6  | 232.6  | 229.6  | 226.6  | 220.5  | 220.5  | 214.6  | 208.5  |
| 75°   | 193.4  | 193.4  | 190.3  | 187.3  | 184.3  | 184.3  | 181.2  | 178.3  | 172.2  | 169.2  | 166.1  |
| 77.5° | 148.0  | 148.0  | 148.0  | 145.1  | 142.0  | 142.0  | 142.0  | 135.9  | 129.9  | 129.9  | 126.9  |
| 80°   | 108.8  | 108.8  | 105.8  | 105.8  | 102.7  | 102.7  | 102.7  | 99.7   | 96.6   | 93.7   | 90.7   |
| 82.5° | 72.5   | 72.5   | 72.5   | 72.5   | 69.5   | 69.5   | 69.5   | 66.5   | 63.4   | 63.4   | 63.4   |
| 85°   | 42.2   | 42.2   | 42.2   | 42.2   | 39.3   | 39.3   | 39.3   | 39.3   | 39.3   | 36.3   | 36.3   |
| 87.5° | 18.1   | 15.1   | 18.1   | 15.1   | 18.1   | 15.1   | 18.1   | 15.1   | 15.1   | 15.1   | 15.1   |
| 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°    | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 |
| 2.5°  | 2151.0 | 2148.1 | 2145.1 | 2142.0 | 2142.0 | 2139.0 | 2133.0 | 2130.0 | 2126.9 | 2123.9 | 2123.9 |
| 5°    | 2163.2 | 2160.1 | 2154.1 | 2148.1 | 2145.1 | 2139.0 | 2133.0 | 2126.9 | 2120.8 | 2111.8 | 2108.8 |
| 7.5°  | 2172.2 | 2163.2 | 2157.1 | 2145.1 | 2142.0 | 2135.9 | 2126.9 | 2117.8 | 2105.7 | 2093.7 | 2084.6 |
| 10°   | 2172.2 | 2160.1 | 2151.0 | 2135.9 | 2130.0 | 2123.9 | 2111.8 | 2096.7 | 2081.5 | 2069.5 | 2054.4 |
| 12.5° | 2166.2 | 2151.0 | 2135.9 | 2120.8 | 2111.8 | 2102.7 | 2084.6 | 2069.5 | 2051.3 | 2033.2 | 2021.2 |
| 15°   | 2145.1 | 2126.9 | 2108.8 | 2090.7 | 2081.5 | 2069.5 | 2051.3 | 2030.3 | 2012.1 | 1994.0 | 1972.8 |
| 17.5° | 2105.7 | 2087.6 | 2066.4 | 2045.4 | 2033.2 | 2024.2 | 1996.9 | 1981.9 | 1954.7 | 1936.6 | 1918.4 |
| 20°   | 2054.4 | 2033.2 | 2006.1 | 1984.9 | 1969.8 | 1960.8 | 1939.6 | 1912.4 | 1891.3 | 1864.0 | 1845.9 |
| 22.5° | 1987.9 | 1960.8 | 1933.5 | 1912.4 | 1897.3 | 1885.2 | 1858.1 | 1830.8 | 1812.7 | 1788.6 | 1767.4 |
| 25°   | 1909.4 | 1882.2 | 1855.0 | 1824.7 | 1809.6 | 1797.6 | 1773.5 | 1749.3 | 1725.1 | 1697.9 | 1679.8 |
| 27.5° | 1815.7 | 1785.5 | 1761.3 | 1734.2 | 1719.1 | 1700.9 | 1673.7 | 1649.6 | 1625.4 | 1607.2 | 1583.1 |
| 30°   | 1713.0 | 1679.8 | 1655.6 | 1628.4 | 1613.3 | 1598.2 | 1571.0 | 1546.9 | 1525.7 | 1504.5 | 1492.5 |
| 32.5° | 1589.1 | 1565.0 | 1540.8 | 1513.6 | 1501.5 | 1492.5 | 1465.2 | 1441.1 | 1416.9 | 1398.8 | 1389.7 |
| 35°   | 1471.3 | 1444.1 | 1423.0 | 1398.8 | 1383.7 | 1374.7 | 1350.4 | 1329.3 | 1317.2 | 1296.0 | 1284.0 |
| 37.5° | 1347.4 | 1326.3 | 1302.1 | 1277.9 | 1268.9 | 1259.9 | 1241.6 | 1220.6 | 1202.4 | 1187.3 | 1181.3 |
| 40°   | 1217.5 | 1199.4 | 1178.2 | 1163.1 | 1154.1 | 1145.0 | 1129.9 | 1114.8 | 1102.8 | 1087.7 | 1081.6 |
| 42.5° | 1093.6 | 1081.6 | 1063.5 | 1045.3 | 1036.3 | 1033.3 | 1015.1 | 1003.1 | 997.0  | 990.9  | 984.8  |
| 45°   | 981.9  | 963.8  | 951.6  | 939.6  | 930.6  | 924.5  | 915.5  | 906.3  | 900.4  | 894.3  | 888.2  |
| 47.5° | 873.1  | 858.0  | 846.0  | 836.8  | 827.8  | 824.8  | 818.7  | 809.7  | 803.6  | 803.6  | 803.6  |
| 50°   | 773.4  | 761.4  | 749.2  | 743.2  | 740.2  | 734.1  | 728.2  | 725.1  | 722.1  | 722.1  | 722.1  |
| 52.5° | 685.8  | 673.8  | 664.6  | 658.7  | 658.7  | 652.6  | 646.5  | 643.6  | 643.6  | 643.6  | 643.6  |
| 55°   | 604.3  | 595.1  | 589.2  | 583.1  | 577.0  | 574.1  | 574.1  | 574.1  | 571.0  | 571.0  | 574.1  |
| 57.5° | 531.7  | 525.7  | 516.6  | 510.6  | 507.5  | 507.5  | 504.6  | 501.5  | 504.6  | 507.5  | 510.6  |
| 60°   | 465.3  | 459.2  | 456.2  | 447.1  | 447.1  | 447.1  | 444.1  | 444.1  | 444.1  | 447.1  | 450.2  |
| 62.5° | 404.8  | 401.9  | 395.8  | 392.7  | 389.7  | 389.7  | 386.8  | 386.8  | 386.8  | 386.8  | 389.7  |
| 65°   | 350.5  | 344.4  | 338.3  | 338.3  | 338.3  | 335.3  | 335.3  | 329.3  | 332.4  | 332.4  | 329.3  |
| 67.5° | 299.0  | 293.1  | 290.0  | 287.0  | 283.9  | 283.9  | 281.0  | 278.0  | 274.9  | 274.9  | 274.9  |
| 70°   | 250.7  | 244.7  | 244.7  | 238.7  | 238.7  | 235.6  | 232.6  | 232.6  | 229.6  | 226.6  | 223.6  |
| 72.5° | 202.4  | 199.4  | 196.4  | 193.4  | 193.4  | 193.4  | 190.3  | 187.3  | 184.3  | 181.2  | 175.3  |
| 75°   | 160.2  | 160.2  | 154.1  | 151.0  | 151.0  | 148.0  | 145.1  | 142.0  | 139.0  | 135.9  | 132.9  |
| 77.5° | 123.9  | 120.9  | 114.8  | 111.7  | 111.7  | 111.7  | 108.8  | 105.8  | 102.7  | 99.7   | 96.6   |
| 80°   | 90.7   | 87.6   | 84.6   | 81.5   | 81.5   | 81.5   | 78.5   | 78.5   | 75.6   | 75.6   | 75.6   |
| 82.5° | 60.5   | 60.5   | 57.4   | 57.4   | 57.4   | 57.4   | 54.4   | 54.4   | 54.4   | 54.4   | 54.4   |
| 85°   | 36.3   | 36.3   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   |
| 87.5° | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   |
| 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: P584540

CATALOG NUMBER: HCC8W40D010BZ-HM82555830-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 |
| 2.5°  | 2117.8 | 2117.8 | 2111.8 | 2108.8 | 2105.7 | 2108.8 | 2102.7 | 2099.8 | 2096.7 | 2096.7 | 2093.7 |
| 5°    | 2099.8 | 2096.7 | 2084.6 | 2081.5 | 2078.6 | 2075.6 | 2069.5 | 2063.5 | 2057.4 | 2054.4 | 2051.3 |
| 7.5°  | 2075.6 | 2066.4 | 2054.4 | 2051.3 | 2048.3 | 2039.3 | 2030.3 | 2024.2 | 2015.1 | 2012.1 | 2006.1 |
| 10°   | 2042.3 | 2030.3 | 2021.2 | 2012.1 | 2006.1 | 1996.9 | 1987.9 | 1978.9 | 1966.8 | 1963.7 | 1954.7 |
| 12.5° | 2003.0 | 1987.9 | 1969.8 | 1966.8 | 1957.7 | 1945.6 | 1933.5 | 1924.5 | 1915.4 | 1909.4 | 1900.3 |
| 15°   | 1954.7 | 1939.6 | 1921.5 | 1912.4 | 1903.3 | 1894.2 | 1879.1 | 1867.1 | 1858.1 | 1848.9 | 1839.9 |
| 17.5° | 1897.3 | 1879.1 | 1864.0 | 1855.0 | 1848.9 | 1833.9 | 1821.8 | 1806.7 | 1797.6 | 1788.6 | 1779.5 |
| 20°   | 1827.8 | 1812.7 | 1791.5 | 1782.5 | 1779.5 | 1767.4 | 1752.3 | 1746.2 | 1734.2 | 1725.1 | 1719.1 |
| 22.5° | 1749.3 | 1734.2 | 1716.0 | 1710.0 | 1697.9 | 1691.8 | 1676.7 | 1670.8 | 1664.7 | 1655.6 | 1652.6 |
| 25°   | 1661.6 | 1646.5 | 1631.5 | 1628.4 | 1619.4 | 1613.3 | 1604.2 | 1595.2 | 1595.2 | 1586.2 | 1586.2 |
| 27.5° | 1571.0 | 1555.9 | 1543.8 | 1537.8 | 1534.7 | 1528.7 | 1519.6 | 1516.7 | 1513.6 | 1510.6 | 1510.6 |
| 30°   | 1474.3 | 1456.2 | 1450.1 | 1447.2 | 1444.1 | 1438.1 | 1435.0 | 1429.1 | 1432.0 | 1435.0 | 1432.0 |
| 32.5° | 1371.6 | 1365.5 | 1353.5 | 1347.4 | 1350.4 | 1347.4 | 1341.4 | 1347.4 | 1344.5 | 1350.4 | 1353.5 |
| 35°   | 1271.9 | 1265.9 | 1259.9 | 1259.9 | 1253.8 | 1253.8 | 1253.8 | 1256.8 | 1262.8 | 1265.9 | 1271.9 |
| 37.5° | 1175.2 | 1166.2 | 1163.1 | 1160.1 | 1163.1 | 1163.1 | 1163.1 | 1169.2 | 1175.2 | 1181.3 | 1190.4 |
| 40°   | 1072.5 | 1066.5 | 1066.5 | 1066.5 | 1066.5 | 1075.5 | 1072.5 | 1078.6 | 1084.6 | 1093.6 | 1102.8 |
| 42.5° | 975.8  | 975.8  | 978.9  | 978.9  | 978.9  | 978.9  | 984.8  | 994.0  | 1003.1 | 1012.1 | 1021.1 |
| 45°   | 885.2  | 885.2  | 885.2  | 891.2  | 891.2  | 894.3  | 906.3  | 912.4  | 918.4  | 927.5  | 936.5  |
| 47.5° | 800.6  | 800.6  | 803.6  | 806.7  | 809.7  | 815.7  | 821.8  | 830.9  | 839.9  | 846.0  | 855.0  |
| 50°   | 722.1  | 725.1  | 731.1  | 737.2  | 737.2  | 740.2  | 749.2  | 755.3  | 761.4  | 770.4  | 773.4  |
| 52.5° | 646.5  | 652.6  | 658.7  | 661.6  | 664.6  | 670.7  | 673.8  | 682.8  | 685.8  | 694.8  | 697.9  |
| 55°   | 577.0  | 580.1  | 589.2  | 592.1  | 592.1  | 598.2  | 604.3  | 610.2  | 619.4  | 619.4  | 625.3  |
| 57.5° | 513.6  | 516.6  | 522.6  | 525.7  | 522.6  | 531.7  | 534.8  | 540.7  | 543.8  | 549.9  | 552.9  |
| 60°   | 450.2  | 456.2  | 459.2  | 459.2  | 462.2  | 465.3  | 471.4  | 471.4  | 477.3  | 483.4  | 483.4  |
| 62.5° | 389.7  | 392.7  | 395.8  | 398.8  | 401.9  | 398.8  | 407.8  | 407.8  | 413.9  | 417.0  | 422.9  |
| 65°   | 332.4  | 335.3  | 335.3  | 338.3  | 338.3  | 341.4  | 341.4  | 344.4  | 347.5  | 353.4  | 356.5  |
| 67.5° | 274.9  | 274.9  | 274.9  | 278.0  | 274.9  | 278.0  | 278.0  | 281.0  | 281.0  | 287.0  | 290.0  |
| 70°   | 223.6  | 220.5  | 217.5  | 217.5  | 217.5  | 217.5  | 214.6  | 217.5  | 217.5  | 220.5  | 220.5  |
| 72.5° | 172.2  | 169.2  | 166.1  | 163.1  | 163.1  | 160.2  | 157.1  | 160.2  | 160.2  | 163.1  | 163.1  |
| 75°   | 129.9  | 123.9  | 123.9  | 123.9  | 120.9  | 120.9  | 120.9  | 123.9  | 123.9  | 123.9  | 126.9  |
| 77.5° | 96.6   | 96.6   | 93.7   | 93.7   | 93.7   | 96.6   | 96.6   | 99.7   | 99.7   | 99.7   | 99.7   |
| 80°   | 72.5   | 75.6   | 75.6   | 75.6   | 75.6   | 78.5   | 78.5   | 78.5   | 78.5   | 81.5   | 81.5   |
| 82.5° | 54.4   | 54.4   | 54.4   | 54.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   |
| 85°   | 33.2   | 36.3   | 36.3   | 33.2   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 87.5° | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   |
| 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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TEST NUMBER: P584540

CATALOG NUMBER: HCC8W40D010BZ-HM82555830-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 | 2126.9 |
| 2.5°  | 2090.7 | 2090.7 | 2090.7 | 2090.7 | 2087.6 | 2087.6 | 2087.6 | 2084.6 |
| 5°    | 2045.4 | 2045.4 | 2045.4 | 2039.3 | 2042.3 | 2042.3 | 2036.3 | 2039.3 |
| 7.5°  | 2000.0 | 1996.9 | 1994.0 | 1994.0 | 1991.0 | 1987.9 | 1984.9 | 1987.9 |
| 10°   | 1948.6 | 1939.6 | 1939.6 | 1936.6 | 1936.6 | 1930.5 | 1930.5 | 1933.5 |
| 12.5° | 1891.3 | 1885.2 | 1885.2 | 1882.2 | 1879.1 | 1876.2 | 1873.2 | 1873.2 |
| 15°   | 1833.9 | 1827.8 | 1824.7 | 1821.8 | 1818.8 | 1812.7 | 1815.7 | 1812.7 |
| 17.5° | 1776.4 | 1767.4 | 1767.4 | 1764.4 | 1761.3 | 1755.2 | 1755.2 | 1752.3 |
| 20°   | 1710.0 | 1706.9 | 1700.9 | 1704.0 | 1700.9 | 1694.9 | 1691.8 | 1691.8 |
| 22.5° | 1643.5 | 1643.5 | 1640.5 | 1640.5 | 1637.4 | 1634.5 | 1631.5 | 1631.5 |
| 25°   | 1580.1 | 1577.1 | 1580.1 | 1580.1 | 1571.0 | 1571.0 | 1571.0 | 1574.0 |
| 27.5° | 1507.6 | 1510.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1510.6 | 1507.6 |
| 30°   | 1435.0 | 1435.0 | 1435.0 | 1438.1 | 1444.1 | 1441.1 | 1441.1 | 1438.1 |
| 32.5° | 1356.5 | 1359.6 | 1359.6 | 1362.6 | 1365.5 | 1371.6 | 1371.6 | 1374.7 |
| 35°   | 1277.9 | 1284.0 | 1287.0 | 1284.0 | 1293.1 | 1293.1 | 1299.1 | 1299.1 |
| 37.5° | 1196.4 | 1199.4 | 1205.5 | 1208.4 | 1214.5 | 1217.5 | 1220.6 | 1220.6 |
| 40°   | 1108.7 | 1120.9 | 1123.8 | 1126.9 | 1136.0 | 1136.0 | 1138.9 | 1145.0 |
| 42.5° | 1027.2 | 1039.2 | 1042.3 | 1045.3 | 1051.4 | 1060.4 | 1057.4 | 1063.5 |
| 45°   | 948.7  | 957.7  | 960.7  | 963.8  | 972.8  | 975.8  | 975.8  | 984.8  |
| 47.5° | 864.1  | 870.1  | 873.1  | 879.2  | 885.2  | 891.2  | 897.3  | 894.3  |
| 50°   | 779.4  | 788.5  | 794.6  | 797.5  | 806.7  | 809.7  | 812.7  | 815.7  |
| 52.5° | 703.9  | 710.0  | 713.0  | 716.0  | 725.1  | 728.2  | 731.1  | 737.2  |
| 55°   | 631.4  | 634.4  | 640.5  | 637.5  | 646.5  | 649.5  | 652.6  | 658.7  |
| 57.5° | 558.9  | 561.9  | 565.0  | 565.0  | 571.0  | 577.0  | 580.1  | 583.1  |
| 60°   | 489.4  | 495.5  | 498.5  | 498.5  | 498.5  | 504.6  | 504.6  | 504.6  |
| 62.5° | 426.0  | 426.0  | 429.0  | 429.0  | 435.1  | 435.1  | 435.1  | 435.1  |
| 65°   | 359.5  | 362.6  | 365.6  | 365.6  | 371.6  | 368.5  | 374.6  | 371.6  |
| 67.5° | 290.0  | 290.0  | 296.1  | 296.1  | 293.1  | 296.1  | 296.1  | 296.1  |
| 70°   | 220.5  | 220.5  | 223.6  | 223.6  | 223.6  | 223.6  | 223.6  | 223.6  |
| 72.5° | 163.1  | 163.1  | 163.1  | 166.1  | 163.1  | 163.1  | 166.1  | 163.1  |
| 75°   | 126.9  | 126.9  | 126.9  | 126.9  | 126.9  | 126.9  | 126.9  | 126.9  |
| 77.5° | 99.7   | 99.7   | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  |
| 80°   | 81.5   | 81.5   | 81.5   | 81.5   | 84.6   | 81.5   | 81.5   | 81.5   |
| 82.5° | 60.5   | 57.4   | 60.5   | 57.4   | 60.5   | 60.5   | 60.5   | 60.5   |
| 85°   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 87.5° | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   |
| 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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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



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

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Peachtree City, GA 30269

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