

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: P584521

Luminaire Tested: **HCC8W40D010BZ-HM82555827-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584521  
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: HCC8W40D010BZ-HM82555827-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

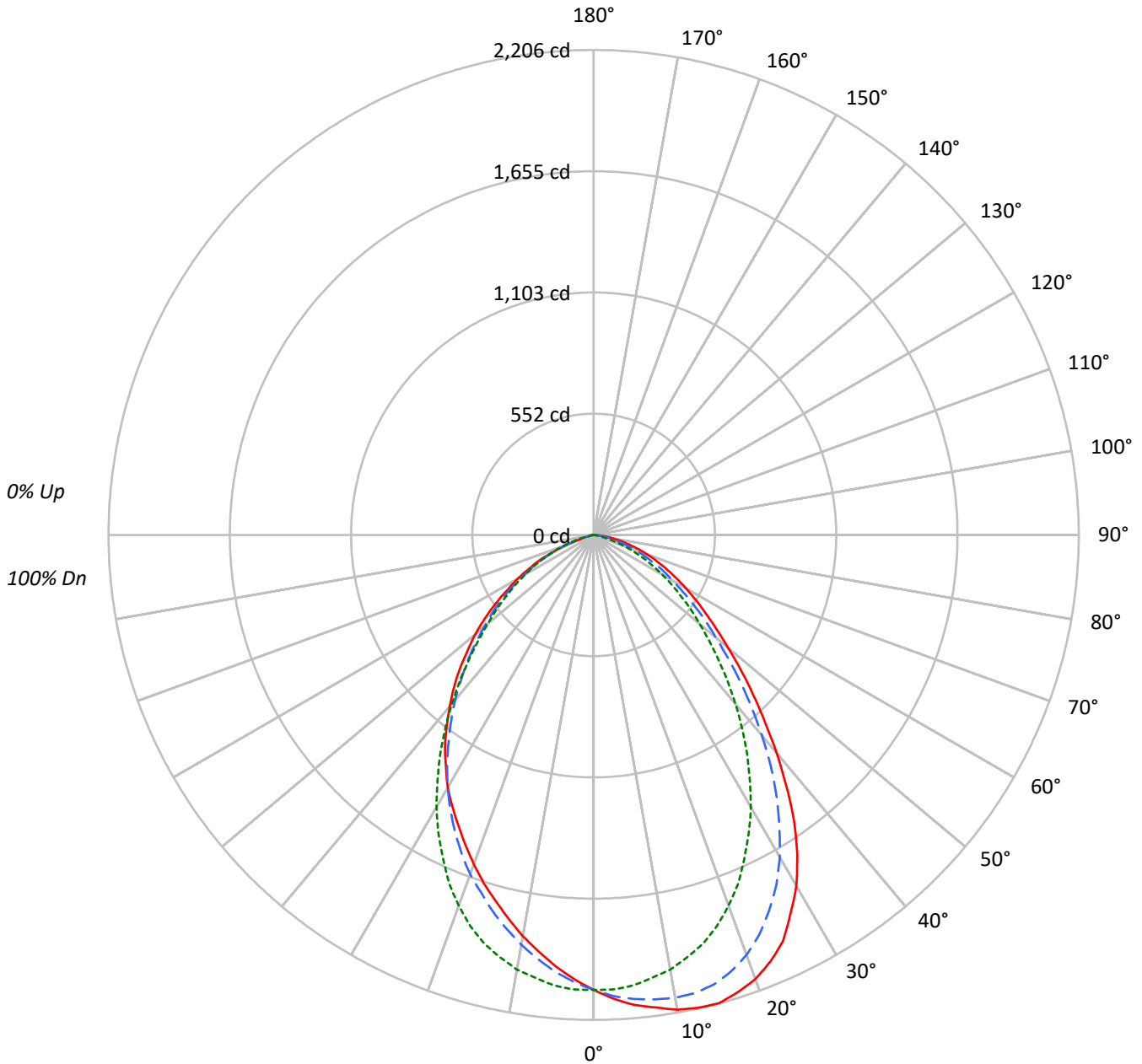
Lumens per Lamp: N/A  
Luminaire Lumens: 3854.7 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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  |     |     |    |    |    |  |  |  |  |   |
| 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   | 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°  | 63813 | 63813 | 63813 |
| 5°  | 66452 | 63673 | 60992 |
| 10° | 68674 | 62859 | 58018 |
| 15° | 70409 | 61422 | 55005 |
| 20° | 70550 | 58877 | 52278 |
| 25° | 69358 | 55150 | 49570 |
| 30° | 65648 | 50886 | 47254 |
| 35° | 59854 | 45764 | 44367 |
| 40° | 52052 | 40343 | 40966 |
| 45° | 44651 | 34940 | 37499 |
| 50° | 38138 | 30127 | 33686 |
| 55° | 33429 | 25940 | 29268 |
| 60° | 29757 | 22128 | 24607 |
| 65° | 26406 | 18059 | 19635 |
| 70° | 23432 | 13389 | 11162 |
| 75° | 19539 | 7006  | 3312  |
| 80° | 15378 | 2202  | 550   |
| 85° | 10933 | 1097  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.0  | 5.1       |
| 10°-20°   | 546.5  | 14.2      |
| 20°-30°   | 773.6  | 20.1      |
| 30°-40°   | 809.3  | 21.0      |
| 40°-50°   | 675.0  | 17.5      |
| 50°-60°   | 478.7  | 12.4      |
| 60°-70°   | 275.7  | 7.2       |
| 70°-80°   | 88.7   | 2.3       |
| 80°-90°   | 12.2   | 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°    | 1515.1 | 39.3      |
| 0°-40°    | 2324.4 | 60.3      |
| 0°-60°    | 3478.1 | 90.2      |
| 0°-90°    | 3854.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3854.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2069 | 2069 | 2069 | 2069 | 2069 |      |
| 5°  | 2147 | 2119 | 2057 | 1995 | 1970 | 206  |
| 15° | 2206 | 2116 | 1924 | 1772 | 1723 | 620  |
| 25° | 2038 | 1887 | 1621 | 1491 | 1457 | 930  |
| 35° | 1590 | 1451 | 1216 | 1151 | 1179 | 986  |
| 45° | 1024 | 940  | 801  | 810  | 860  | 793  |
| 55° | 622  | 557  | 482  | 507  | 544  | 562  |
| 65° | 362  | 303  | 248  | 248  | 269  | 362  |
| 75° | 164  | 121  | 59   | 28   | 28   | 178  |
| 85° | 31   | 16   | 3    | 0    | 0    | 39   |
| 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°    | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 |
| 2.5°  | 2112.7 | 2109.6 | 2106.5 | 2109.6 | 2106.5 | 2109.6 | 2106.5 | 2106.5 | 2103.4 | 2100.4 | 2100.4 |
| 5°    | 2146.8 | 2143.7 | 2143.7 | 2143.7 | 2140.6 | 2137.5 | 2137.5 | 2134.4 | 2128.2 | 2125.1 | 2118.9 |
| 7.5°  | 2168.4 | 2171.5 | 2171.5 | 2171.5 | 2165.3 | 2165.3 | 2159.1 | 2152.9 | 2146.8 | 2140.6 | 2131.3 |
| 10°   | 2193.2 | 2193.2 | 2190.1 | 2187.0 | 2180.8 | 2177.7 | 2174.6 | 2168.4 | 2159.1 | 2146.8 | 2137.5 |
| 12.5° | 2202.5 | 2202.5 | 2199.4 | 2193.2 | 2190.1 | 2187.0 | 2183.9 | 2174.6 | 2162.2 | 2146.8 | 2134.4 |
| 15°   | 2205.5 | 2199.4 | 2196.3 | 2193.2 | 2187.0 | 2177.7 | 2177.7 | 2165.3 | 2149.9 | 2131.3 | 2115.8 |
| 17.5° | 2180.8 | 2183.9 | 2177.7 | 2171.5 | 2162.2 | 2156.0 | 2146.8 | 2137.5 | 2118.9 | 2097.3 | 2081.8 |
| 20°   | 2149.9 | 2146.8 | 2143.7 | 2134.4 | 2122.0 | 2118.9 | 2109.6 | 2094.2 | 2078.7 | 2053.9 | 2032.3 |
| 22.5° | 2100.4 | 2097.3 | 2091.1 | 2084.9 | 2072.5 | 2066.3 | 2057.0 | 2038.5 | 2016.8 | 1992.1 | 1967.3 |
| 25°   | 2038.5 | 2032.3 | 2023.0 | 2010.6 | 2001.3 | 1995.2 | 1982.8 | 1964.2 | 1939.5 | 1911.6 | 1886.9 |
| 27.5° | 1939.5 | 1948.7 | 1942.6 | 1924.0 | 1914.7 | 1902.3 | 1899.2 | 1874.5 | 1852.9 | 1825.1 | 1797.3 |
| 30°   | 1843.7 | 1843.7 | 1834.4 | 1825.1 | 1809.6 | 1800.4 | 1788.0 | 1769.4 | 1747.8 | 1713.7 | 1692.1 |
| 32.5° | 1723.0 | 1719.9 | 1707.5 | 1704.4 | 1692.1 | 1673.5 | 1670.4 | 1645.7 | 1624.0 | 1599.2 | 1571.4 |
| 35°   | 1590.0 | 1583.8 | 1571.4 | 1562.1 | 1555.9 | 1546.6 | 1537.4 | 1515.7 | 1494.0 | 1469.3 | 1450.7 |
| 37.5° | 1438.4 | 1438.4 | 1435.3 | 1419.8 | 1413.6 | 1407.4 | 1398.1 | 1376.5 | 1364.1 | 1339.3 | 1320.9 |
| 40°   | 1293.1 | 1290.0 | 1280.7 | 1277.6 | 1271.4 | 1262.1 | 1255.9 | 1243.6 | 1225.0 | 1206.4 | 1187.9 |
| 42.5° | 1150.7 | 1153.8 | 1141.4 | 1144.5 | 1132.2 | 1126.0 | 1122.9 | 1104.3 | 1095.0 | 1076.5 | 1061.0 |
| 45°   | 1023.9 | 1020.8 | 1014.6 | 1011.5 | 1005.3 | 999.1  | 992.9  | 983.7  | 968.2  | 949.6  | 940.3  |
| 47.5° | 906.3  | 897.0  | 897.0  | 893.9  | 890.8  | 878.5  | 875.4  | 866.1  | 856.8  | 838.2  | 825.9  |
| 50°   | 795.0  | 795.0  | 795.0  | 791.9  | 782.7  | 779.6  | 773.4  | 764.1  | 754.8  | 742.4  | 723.9  |
| 52.5° | 705.3  | 705.3  | 705.3  | 702.2  | 689.8  | 686.7  | 683.7  | 671.3  | 658.9  | 649.6  | 637.2  |
| 55°   | 621.8  | 624.9  | 621.8  | 615.6  | 606.3  | 606.3  | 597.0  | 590.8  | 578.5  | 569.2  | 556.8  |
| 57.5° | 550.6  | 550.6  | 544.4  | 541.3  | 535.1  | 532.0  | 525.9  | 519.7  | 504.2  | 494.9  | 479.5  |
| 60°   | 482.5  | 479.5  | 479.5  | 473.3  | 467.1  | 460.9  | 457.8  | 448.5  | 442.3  | 426.9  | 414.5  |
| 62.5° | 420.7  | 420.7  | 414.5  | 414.5  | 402.1  | 402.1  | 399.0  | 389.7  | 380.4  | 365.0  | 358.8  |
| 65°   | 361.9  | 361.9  | 358.8  | 355.7  | 346.4  | 343.3  | 340.2  | 330.9  | 321.7  | 312.4  | 303.1  |
| 67.5° | 309.3  | 309.3  | 303.1  | 300.0  | 293.8  | 290.7  | 284.5  | 278.3  | 269.1  | 259.9  | 250.6  |
| 70°   | 259.9  | 256.8  | 253.7  | 250.6  | 244.4  | 241.3  | 235.1  | 229.0  | 219.7  | 213.5  | 204.2  |
| 72.5° | 210.4  | 210.4  | 207.3  | 201.1  | 198.0  | 194.9  | 191.8  | 185.6  | 176.4  | 167.1  | 160.9  |
| 75°   | 164.0  | 164.0  | 164.0  | 157.8  | 151.6  | 148.5  | 148.5  | 142.3  | 136.1  | 126.9  | 120.7  |
| 77.5° | 126.9  | 123.8  | 120.7  | 120.7  | 114.5  | 111.4  | 108.3  | 105.2  | 95.9   | 92.8   | 86.6   |
| 80°   | 86.6   | 89.7   | 86.6   | 83.5   | 80.4   | 77.4   | 77.4   | 71.2   | 68.1   | 61.9   | 55.7   |
| 82.5° | 58.8   | 55.7   | 55.7   | 52.6   | 52.6   | 49.5   | 49.5   | 43.3   | 40.2   | 37.1   | 34.0   |
| 85°   | 30.9   | 30.9   | 27.8   | 27.8   | 27.8   | 24.8   | 24.8   | 21.7   | 21.7   | 18.6   | 15.5   |
| 87.5° | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 6.2    | 6.2    | 6.2    |
| 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°    | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 |
| 2.5°  | 2097.3 | 2091.1 | 2088.0 | 2088.0 | 2084.9 | 2081.8 | 2078.7 | 2075.6 | 2069.4 | 2069.4 | 2063.2 |
| 5°    | 2112.7 | 2106.5 | 2103.4 | 2094.2 | 2088.0 | 2088.0 | 2075.6 | 2072.5 | 2063.2 | 2057.0 | 2050.8 |
| 7.5°  | 2125.1 | 2112.7 | 2103.4 | 2094.2 | 2088.0 | 2081.8 | 2069.4 | 2057.0 | 2044.7 | 2032.3 | 2026.1 |
| 10°   | 2125.1 | 2112.7 | 2097.3 | 2081.8 | 2075.6 | 2069.4 | 2053.9 | 2035.4 | 2019.9 | 2007.5 | 1992.1 |
| 12.5° | 2118.9 | 2100.4 | 2081.8 | 2069.4 | 2057.0 | 2047.8 | 2029.2 | 2010.6 | 1992.1 | 1967.3 | 1954.9 |
| 15°   | 2100.4 | 2075.6 | 2057.0 | 2035.4 | 2026.1 | 2010.6 | 1995.2 | 1967.3 | 1945.6 | 1924.0 | 1908.5 |
| 17.5° | 2063.2 | 2032.3 | 2010.6 | 1989.0 | 1973.5 | 1964.2 | 1939.5 | 1914.7 | 1890.0 | 1865.3 | 1846.8 |
| 20°   | 2007.5 | 1979.7 | 1954.9 | 1927.1 | 1914.7 | 1902.3 | 1871.5 | 1846.8 | 1822.0 | 1794.2 | 1775.6 |
| 22.5° | 1939.5 | 1911.6 | 1877.6 | 1856.0 | 1837.5 | 1822.0 | 1794.2 | 1766.3 | 1741.6 | 1716.8 | 1692.1 |
| 25°   | 1856.0 | 1828.2 | 1797.3 | 1763.2 | 1750.8 | 1735.4 | 1704.4 | 1676.6 | 1648.7 | 1620.9 | 1599.2 |
| 27.5° | 1766.3 | 1729.2 | 1704.4 | 1667.3 | 1654.9 | 1639.5 | 1605.4 | 1574.5 | 1549.7 | 1528.1 | 1503.3 |
| 30°   | 1658.0 | 1630.2 | 1596.1 | 1562.1 | 1549.7 | 1534.3 | 1506.4 | 1478.6 | 1453.8 | 1429.1 | 1404.3 |
| 32.5° | 1540.5 | 1512.6 | 1478.6 | 1453.8 | 1435.3 | 1422.9 | 1395.0 | 1370.3 | 1345.5 | 1320.9 | 1299.2 |
| 35°   | 1416.7 | 1385.8 | 1361.0 | 1336.4 | 1320.9 | 1305.4 | 1277.6 | 1255.9 | 1237.4 | 1215.7 | 1194.0 |
| 37.5° | 1290.0 | 1268.3 | 1243.6 | 1215.7 | 1200.2 | 1187.9 | 1166.2 | 1141.4 | 1126.0 | 1107.4 | 1091.9 |
| 40°   | 1166.2 | 1141.4 | 1119.8 | 1095.0 | 1082.7 | 1073.4 | 1051.7 | 1033.2 | 1017.7 | 1002.2 | 992.9  |
| 42.5° | 1039.3 | 1017.7 | 996.0  | 980.6  | 971.3  | 962.0  | 946.5  | 924.9  | 915.6  | 900.1  | 890.8  |
| 45°   | 921.8  | 903.2  | 887.7  | 866.1  | 859.9  | 853.7  | 835.1  | 819.7  | 810.4  | 801.2  | 795.0  |
| 47.5° | 810.4  | 798.1  | 779.6  | 767.2  | 757.9  | 751.7  | 739.3  | 727.0  | 717.7  | 711.5  | 705.3  |
| 50°   | 714.6  | 699.1  | 686.7  | 674.4  | 668.2  | 658.9  | 646.5  | 640.3  | 634.2  | 628.0  | 628.0  |
| 52.5° | 624.9  | 609.4  | 597.0  | 587.7  | 581.6  | 575.4  | 566.1  | 563.0  | 556.8  | 556.8  | 553.7  |
| 55°   | 541.3  | 532.0  | 519.7  | 507.3  | 504.2  | 501.1  | 494.9  | 488.7  | 485.6  | 482.5  | 485.6  |
| 57.5° | 470.2  | 460.9  | 448.5  | 439.2  | 436.1  | 433.0  | 429.9  | 423.8  | 420.7  | 420.7  | 420.7  |
| 60°   | 405.2  | 395.9  | 386.6  | 377.3  | 377.3  | 371.2  | 368.1  | 365.0  | 361.9  | 358.8  | 358.8  |
| 62.5° | 346.4  | 337.1  | 327.8  | 321.7  | 318.6  | 315.5  | 309.3  | 306.2  | 303.1  | 303.1  | 300.0  |
| 65°   | 293.8  | 281.4  | 278.3  | 269.1  | 266.1  | 263.0  | 259.9  | 253.7  | 250.6  | 247.5  | 244.4  |
| 67.5° | 241.3  | 235.1  | 225.9  | 219.7  | 216.6  | 213.5  | 210.4  | 204.2  | 201.1  | 198.0  | 191.8  |
| 70°   | 194.9  | 188.7  | 182.5  | 176.4  | 173.3  | 170.2  | 164.0  | 157.8  | 154.7  | 148.5  | 139.2  |
| 72.5° | 151.6  | 145.4  | 139.2  | 133.0  | 129.9  | 126.9  | 120.7  | 114.5  | 108.3  | 102.1  | 95.9   |
| 75°   | 114.5  | 108.3  | 99.0   | 92.8   | 89.7   | 89.7   | 80.4   | 74.3   | 68.1   | 58.8   | 52.6   |
| 77.5° | 80.4   | 71.2   | 68.1   | 61.9   | 58.8   | 52.6   | 46.4   | 40.2   | 34.0   | 30.9   | 24.8   |
| 80°   | 52.6   | 46.4   | 40.2   | 37.1   | 34.0   | 30.9   | 27.8   | 21.7   | 15.5   | 12.4   | 9.3    |
| 82.5° | 30.9   | 27.8   | 24.8   | 21.7   | 18.6   | 15.5   | 12.4   | 12.4   | 9.3    | 6.2    | 3.1    |
| 85°   | 15.5   | 12.4   | 9.3    | 9.3    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    |
| 87.5° | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 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  
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TEST NUMBER: P584521

CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 |
| 2.5°  | 2060.1 | 2057.0 | 2053.9 | 2050.8 | 2050.8 | 2044.7 | 2044.7 | 2041.6 | 2035.4 | 2032.3 | 2032.3 |
| 5°    | 2041.6 | 2032.3 | 2026.1 | 2023.0 | 2019.9 | 2010.6 | 2007.5 | 2001.3 | 1995.2 | 1989.0 | 1985.9 |
| 7.5°  | 2013.7 | 1998.2 | 1992.1 | 1989.0 | 1979.7 | 1970.4 | 1964.2 | 1954.9 | 1945.6 | 1936.4 | 1933.3 |
| 10°   | 1979.7 | 1964.2 | 1948.7 | 1942.6 | 1933.3 | 1927.1 | 1914.7 | 1902.3 | 1893.1 | 1883.8 | 1874.5 |
| 12.5° | 1936.4 | 1917.8 | 1902.3 | 1896.1 | 1886.9 | 1874.5 | 1856.0 | 1849.9 | 1834.4 | 1828.2 | 1815.8 |
| 15°   | 1886.9 | 1865.3 | 1849.9 | 1840.6 | 1831.3 | 1812.7 | 1800.4 | 1788.0 | 1772.5 | 1766.3 | 1753.9 |
| 17.5° | 1825.1 | 1800.4 | 1784.9 | 1775.6 | 1769.4 | 1753.9 | 1735.4 | 1719.9 | 1704.4 | 1698.2 | 1689.0 |
| 20°   | 1750.8 | 1735.4 | 1713.7 | 1704.4 | 1698.2 | 1679.7 | 1661.1 | 1654.9 | 1642.6 | 1630.2 | 1620.9 |
| 22.5° | 1667.3 | 1651.8 | 1630.2 | 1620.9 | 1617.8 | 1602.3 | 1586.9 | 1577.6 | 1568.3 | 1559.0 | 1549.7 |
| 25°   | 1580.7 | 1562.1 | 1543.5 | 1537.4 | 1531.2 | 1518.8 | 1506.4 | 1500.2 | 1491.0 | 1484.8 | 1478.6 |
| 27.5° | 1487.9 | 1469.3 | 1453.8 | 1444.5 | 1438.4 | 1429.1 | 1422.9 | 1416.7 | 1410.5 | 1404.3 | 1401.2 |
| 30°   | 1388.8 | 1370.3 | 1357.9 | 1351.7 | 1345.5 | 1342.4 | 1333.3 | 1330.2 | 1327.1 | 1320.9 | 1324.0 |
| 32.5° | 1290.0 | 1274.5 | 1262.1 | 1252.8 | 1252.8 | 1246.6 | 1243.6 | 1243.6 | 1240.5 | 1240.5 | 1240.5 |
| 35°   | 1181.7 | 1172.4 | 1163.1 | 1160.0 | 1156.9 | 1153.8 | 1150.7 | 1153.8 | 1150.7 | 1153.8 | 1156.9 |
| 37.5° | 1082.7 | 1073.4 | 1067.2 | 1064.1 | 1061.0 | 1064.1 | 1061.0 | 1061.0 | 1064.1 | 1070.3 | 1073.4 |
| 40°   | 980.6  | 974.4  | 968.2  | 971.3  | 968.2  | 968.2  | 968.2  | 977.5  | 980.6  | 983.7  | 986.7  |
| 42.5° | 884.6  | 878.5  | 875.4  | 875.4  | 878.5  | 875.4  | 881.6  | 884.6  | 890.8  | 900.1  | 906.3  |
| 45°   | 791.9  | 788.9  | 788.9  | 791.9  | 788.9  | 795.0  | 795.0  | 801.2  | 810.4  | 816.6  | 822.8  |
| 47.5° | 705.3  | 705.3  | 705.3  | 708.4  | 708.4  | 711.5  | 717.7  | 720.8  | 727.0  | 733.2  | 739.3  |
| 50°   | 624.9  | 628.0  | 631.1  | 631.1  | 631.1  | 637.2  | 643.4  | 646.5  | 649.6  | 652.7  | 662.0  |
| 52.5° | 553.7  | 556.8  | 556.8  | 559.9  | 563.0  | 566.1  | 569.2  | 575.4  | 578.5  | 584.6  | 587.7  |
| 55°   | 485.6  | 485.6  | 491.8  | 494.9  | 494.9  | 494.9  | 501.1  | 501.1  | 507.3  | 510.4  | 516.6  |
| 57.5° | 420.7  | 423.8  | 423.8  | 426.9  | 426.9  | 429.9  | 433.0  | 436.1  | 439.2  | 442.3  | 445.4  |
| 60°   | 358.8  | 358.8  | 358.8  | 361.9  | 365.0  | 368.1  | 365.0  | 371.2  | 371.2  | 377.3  | 380.4  |
| 62.5° | 300.0  | 303.1  | 303.1  | 303.1  | 303.1  | 303.1  | 303.1  | 306.2  | 309.3  | 312.4  | 315.5  |
| 65°   | 244.4  | 244.4  | 244.4  | 241.3  | 244.4  | 241.3  | 244.4  | 247.5  | 247.5  | 250.6  | 253.7  |
| 67.5° | 188.7  | 188.7  | 182.5  | 182.5  | 185.6  | 185.6  | 185.6  | 185.6  | 182.5  | 188.7  | 188.7  |
| 70°   | 136.1  | 133.0  | 129.9  | 126.9  | 126.9  | 123.8  | 123.8  | 120.7  | 120.7  | 120.7  | 120.7  |
| 72.5° | 89.7   | 83.5   | 77.4   | 74.3   | 71.2   | 71.2   | 65.0   | 61.9   | 65.0   | 65.0   | 65.0   |
| 75°   | 46.4   | 40.2   | 37.1   | 34.0   | 30.9   | 30.9   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   |
| 77.5° | 18.6   | 15.5   | 12.4   | 12.4   | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    |
| 80°   | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 82.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 85°   | 3.1    | 0.0    | 0.0    | 3.1    | 0.0    | 3.1    | 3.1    | 3.1    | 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    |



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TEST NUMBER: P584521

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**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 | 2069.4 |
| 2.5°  | 2029.2 | 2029.2 | 2026.1 | 2029.2 | 2023.0 | 2026.1 | 2023.0 | 2023.0 |
| 5°    | 1982.8 | 1976.6 | 1976.6 | 1976.6 | 1973.5 | 1973.5 | 1970.4 | 1970.4 |
| 7.5°  | 1927.1 | 1924.0 | 1920.9 | 1917.8 | 1914.7 | 1911.6 | 1911.6 | 1911.6 |
| 10°   | 1871.5 | 1865.3 | 1865.3 | 1862.2 | 1856.0 | 1852.9 | 1852.9 | 1852.9 |
| 12.5° | 1806.5 | 1803.4 | 1800.4 | 1800.4 | 1788.0 | 1791.1 | 1788.0 | 1788.0 |
| 15°   | 1744.7 | 1741.6 | 1741.6 | 1732.3 | 1726.1 | 1726.1 | 1726.1 | 1723.0 |
| 17.5° | 1679.7 | 1676.6 | 1673.5 | 1667.3 | 1661.1 | 1661.1 | 1658.0 | 1661.1 |
| 20°   | 1611.6 | 1608.5 | 1602.3 | 1602.3 | 1599.2 | 1596.1 | 1590.0 | 1593.1 |
| 22.5° | 1543.5 | 1537.4 | 1534.3 | 1534.3 | 1531.2 | 1531.2 | 1525.0 | 1525.0 |
| 25°   | 1472.4 | 1469.3 | 1466.2 | 1469.3 | 1463.1 | 1463.1 | 1456.9 | 1456.9 |
| 27.5° | 1398.1 | 1395.0 | 1395.0 | 1395.0 | 1391.9 | 1395.0 | 1391.9 | 1391.9 |
| 30°   | 1324.0 | 1324.0 | 1320.9 | 1320.9 | 1324.0 | 1320.9 | 1324.0 | 1327.1 |
| 32.5° | 1243.6 | 1243.6 | 1246.6 | 1246.6 | 1249.7 | 1249.7 | 1249.7 | 1249.7 |
| 35°   | 1160.0 | 1166.2 | 1166.2 | 1169.3 | 1172.4 | 1175.5 | 1175.5 | 1178.6 |
| 37.5° | 1082.7 | 1085.8 | 1088.8 | 1091.9 | 1098.1 | 1098.1 | 1098.1 | 1098.1 |
| 40°   | 999.1  | 1002.2 | 1008.4 | 1005.3 | 1017.7 | 1020.8 | 1017.7 | 1017.7 |
| 42.5° | 912.5  | 918.7  | 921.8  | 928.0  | 931.1  | 937.2  | 940.3  | 940.3  |
| 45°   | 832.0  | 835.1  | 841.3  | 847.5  | 850.6  | 859.9  | 859.9  | 859.9  |
| 47.5° | 748.6  | 754.8  | 757.9  | 764.1  | 767.2  | 776.5  | 779.6  | 776.5  |
| 50°   | 668.2  | 674.4  | 680.6  | 680.6  | 689.8  | 692.9  | 699.1  | 702.2  |
| 52.5° | 590.8  | 593.9  | 600.1  | 603.2  | 609.4  | 615.6  | 618.7  | 621.8  |
| 55°   | 516.6  | 519.7  | 525.9  | 525.9  | 535.1  | 538.2  | 544.4  | 544.4  |
| 57.5° | 448.5  | 451.6  | 457.8  | 454.7  | 460.9  | 467.1  | 467.1  | 464.0  |
| 60°   | 383.5  | 383.5  | 383.5  | 389.7  | 392.8  | 395.9  | 399.0  | 399.0  |
| 62.5° | 315.5  | 321.7  | 324.8  | 324.8  | 327.8  | 330.9  | 330.9  | 327.8  |
| 65°   | 253.7  | 259.9  | 263.0  | 263.0  | 266.1  | 266.1  | 266.1  | 269.1  |
| 67.5° | 191.8  | 191.8  | 191.8  | 194.9  | 191.8  | 191.8  | 191.8  | 191.8  |
| 70°   | 120.7  | 120.7  | 120.7  | 120.7  | 117.6  | 120.7  | 120.7  | 123.8  |
| 72.5° | 65.0   | 65.0   | 65.0   | 65.0   | 65.0   | 65.0   | 65.0   | 65.0   |
| 75°   | 27.8   | 27.8   | 27.8   | 30.9   | 27.8   | 27.8   | 27.8   | 27.8   |
| 77.5° | 12.4   | 9.3    | 12.4   | 12.4   | 9.3    | 9.3    | 9.3    | 9.3    |
| 80°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 82.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 85°   | 0.0    | 3.1    | 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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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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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