

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: P584759

Luminaire Tested: **HCC8S45D010MB-HM82555935-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584759  
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: HCC8S45D010MB-HM82555935-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

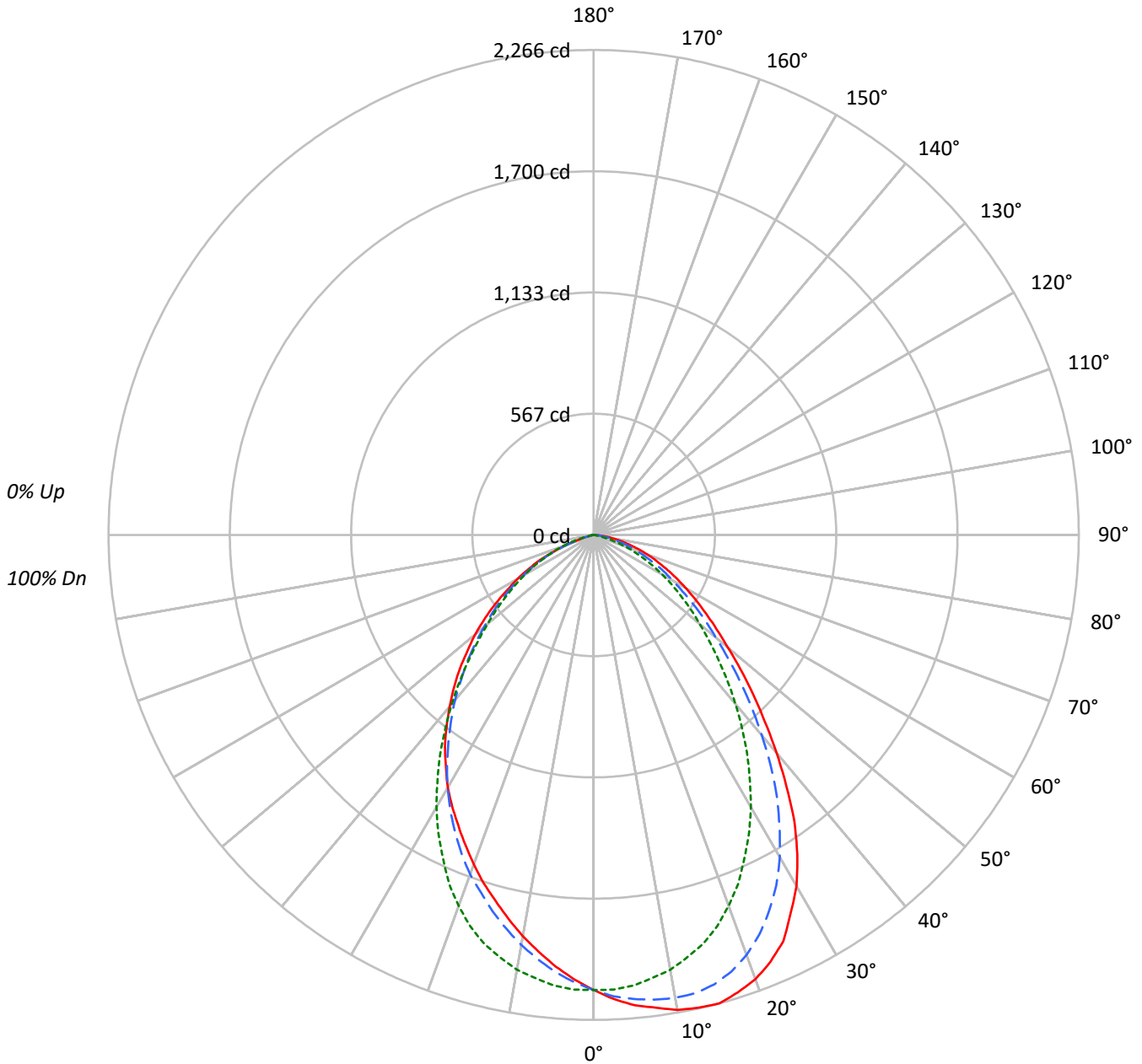
Lumens per Lamp: N/A  
Luminaire Lumens: 3961.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 65573 | 65573 | 65573 |
| 5°  | 68282 | 65428 | 62676 |
| 10° | 70568 | 64597 | 59618 |
| 15° | 72353 | 63117 | 56522 |
| 20° | 72492 | 60498 | 53719 |
| 25° | 71270 | 56667 | 50937 |
| 30° | 67457 | 52288 | 48553 |
| 35° | 61507 | 47025 | 45587 |
| 40° | 53485 | 41458 | 42094 |
| 45° | 45886 | 35899 | 38533 |
| 50° | 39189 | 30957 | 34612 |
| 55° | 34348 | 26655 | 30074 |
| 60° | 30577 | 22739 | 25292 |
| 65° | 27128 | 18555 | 20182 |
| 70° | 24073 | 13758 | 11468 |
| 75° | 20064 | 7196  | 3407  |
| 80° | 15805 | 2255  | 568   |
| 85° | 11251 | 1132  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 200.4  | 5.1       |
| 10°-20°   | 561.6  | 14.2      |
| 20°-30°   | 794.9  | 20.1      |
| 30°-40°   | 831.6  | 21.0      |
| 40°-50°   | 693.6  | 17.5      |
| 50°-60°   | 491.9  | 12.4      |
| 60°-70°   | 283.3  | 7.2       |
| 70°-80°   | 91.2   | 2.3       |
| 80°-90°   | 12.5   | 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°    | 1556.9 | 39.3      |
| 0°-40°    | 2388.5 | 60.3      |
| 0°-60°    | 3574.0 | 90.2      |
| 0°-90°    | 3961.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3961.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2126 | 2126 | 2126 | 2126 | 2126 |      |
| 5°  | 2206 | 2177 | 2114 | 2050 | 2025 | 212  |
| 15° | 2266 | 2174 | 1977 | 1821 | 1770 | 637  |
| 25° | 2095 | 1939 | 1666 | 1532 | 1497 | 956  |
| 35° | 1634 | 1491 | 1249 | 1182 | 1211 | 1013 |
| 45° | 1052 | 966  | 823  | 833  | 884  | 815  |
| 55° | 639  | 572  | 496  | 521  | 559  | 577  |
| 65° | 372  | 312  | 254  | 254  | 277  | 372  |
| 75° | 168  | 124  | 60   | 29   | 29   | 183  |
| 85° | 32   | 16   | 3    | 0    | 0    | 40   |
| 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°    | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 |
| 2.5°  | 2171.0 | 2167.8 | 2164.7 | 2167.8 | 2164.7 | 2167.8 | 2164.7 | 2164.7 | 2161.5 | 2158.3 | 2158.3 |
| 5°    | 2205.9 | 2202.8 | 2202.8 | 2202.8 | 2199.6 | 2196.4 | 2196.4 | 2193.3 | 2186.9 | 2183.8 | 2177.3 |
| 7.5°  | 2228.2 | 2231.4 | 2231.4 | 2231.4 | 2225.1 | 2225.1 | 2218.7 | 2212.3 | 2205.9 | 2199.6 | 2190.1 |
| 10°   | 2253.7 | 2253.7 | 2250.5 | 2247.2 | 2240.9 | 2237.7 | 2234.6 | 2228.2 | 2218.7 | 2205.9 | 2196.4 |
| 12.5° | 2263.2 | 2263.2 | 2260.0 | 2253.7 | 2250.5 | 2247.2 | 2244.1 | 2234.6 | 2221.9 | 2205.9 | 2193.3 |
| 15°   | 2266.4 | 2260.0 | 2256.9 | 2253.7 | 2247.2 | 2237.7 | 2237.7 | 2225.1 | 2209.1 | 2190.1 | 2174.2 |
| 17.5° | 2240.9 | 2244.1 | 2237.7 | 2231.4 | 2221.9 | 2215.4 | 2205.9 | 2196.4 | 2177.3 | 2155.2 | 2139.2 |
| 20°   | 2209.1 | 2205.9 | 2202.8 | 2193.3 | 2180.5 | 2177.3 | 2167.8 | 2152.0 | 2136.0 | 2110.6 | 2088.4 |
| 22.5° | 2158.3 | 2155.2 | 2148.7 | 2142.4 | 2129.7 | 2123.4 | 2113.7 | 2094.7 | 2072.5 | 2047.0 | 2021.5 |
| 25°   | 2094.7 | 2088.4 | 2078.8 | 2066.1 | 2056.6 | 2050.2 | 2037.5 | 2018.4 | 1993.0 | 1964.4 | 1939.0 |
| 27.5° | 1993.0 | 2002.5 | 1996.2 | 1977.1 | 1967.6 | 1954.8 | 1951.6 | 1926.3 | 1904.0 | 1875.4 | 1846.8 |
| 30°   | 1894.5 | 1894.5 | 1884.9 | 1875.4 | 1859.4 | 1849.9 | 1837.3 | 1818.2 | 1796.0 | 1760.9 | 1738.7 |
| 32.5° | 1770.5 | 1767.4 | 1754.6 | 1751.4 | 1738.7 | 1719.6 | 1716.5 | 1691.0 | 1668.8 | 1643.4 | 1614.8 |
| 35°   | 1633.9 | 1627.4 | 1614.8 | 1605.3 | 1598.8 | 1589.3 | 1579.8 | 1557.5 | 1535.2 | 1509.9 | 1490.8 |
| 37.5° | 1478.1 | 1478.1 | 1474.9 | 1459.0 | 1452.6 | 1446.3 | 1436.7 | 1414.5 | 1401.7 | 1376.4 | 1357.3 |
| 40°   | 1328.7 | 1325.5 | 1316.0 | 1312.8 | 1306.4 | 1296.9 | 1290.5 | 1277.9 | 1258.7 | 1239.6 | 1220.6 |
| 42.5° | 1182.5 | 1185.7 | 1172.9 | 1176.0 | 1163.4 | 1157.0 | 1153.9 | 1134.8 | 1125.3 | 1106.1 | 1090.3 |
| 45°   | 1052.2 | 1048.9 | 1042.6 | 1039.4 | 1033.1 | 1026.7 | 1020.4 | 1010.8 | 994.9  | 975.8  | 966.3  |
| 47.5° | 931.4  | 921.7  | 921.7  | 918.6  | 915.4  | 902.7  | 899.6  | 890.1  | 880.5  | 861.5  | 848.7  |
| 50°   | 816.9  | 816.9  | 816.9  | 813.7  | 804.2  | 801.0  | 794.7  | 785.1  | 775.6  | 762.9  | 743.8  |
| 52.5° | 724.7  | 724.7  | 724.7  | 721.5  | 708.8  | 705.7  | 702.5  | 689.7  | 677.1  | 667.6  | 654.8  |
| 55°   | 638.9  | 642.1  | 638.9  | 632.6  | 623.0  | 623.0  | 613.5  | 607.1  | 594.4  | 584.9  | 572.2  |
| 57.5° | 565.7  | 565.7  | 559.4  | 556.2  | 549.9  | 546.7  | 540.4  | 534.1  | 518.1  | 508.6  | 492.7  |
| 60°   | 495.8  | 492.7  | 492.7  | 486.3  | 480.0  | 473.7  | 470.5  | 460.9  | 454.5  | 438.7  | 425.9  |
| 62.5° | 432.3  | 432.3  | 425.9  | 425.9  | 413.2  | 413.2  | 410.1  | 400.5  | 391.0  | 375.1  | 368.7  |
| 65°   | 371.8  | 371.8  | 368.7  | 365.5  | 356.0  | 352.8  | 349.7  | 340.2  | 330.6  | 321.1  | 311.5  |
| 67.5° | 317.9  | 317.9  | 311.5  | 308.4  | 301.9  | 298.8  | 292.4  | 286.1  | 276.6  | 267.0  | 257.5  |
| 70°   | 267.0  | 263.8  | 260.6  | 257.5  | 251.1  | 248.0  | 241.5  | 235.2  | 225.7  | 219.4  | 209.7  |
| 72.5° | 216.2  | 216.2  | 213.0  | 206.6  | 203.4  | 200.2  | 197.1  | 190.7  | 181.2  | 171.6  | 165.3  |
| 75°   | 168.4  | 168.4  | 168.4  | 162.1  | 155.8  | 152.6  | 152.6  | 146.3  | 139.8  | 130.3  | 124.0  |
| 77.5° | 130.3  | 127.2  | 124.0  | 124.0  | 117.7  | 114.5  | 111.2  | 108.0  | 98.5   | 95.4   | 89.0   |
| 80°   | 89.0   | 92.2   | 89.0   | 85.9   | 82.7   | 79.4   | 79.4   | 73.1   | 69.9   | 63.6   | 57.2   |
| 82.5° | 60.4   | 57.2   | 57.2   | 54.1   | 54.1   | 50.9   | 50.9   | 44.5   | 41.3   | 38.1   | 35.0   |
| 85°   | 31.8   | 31.8   | 28.6   | 28.6   | 28.6   | 25.5   | 25.5   | 22.3   | 22.3   | 19.1   | 15.8   |
| 87.5° | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 6.3    | 6.3    | 6.3    |
| 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°    | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 |
| 2.5°  | 2155.2 | 2148.7 | 2145.5 | 2145.5 | 2142.4 | 2139.2 | 2136.0 | 2132.9 | 2126.5 | 2126.5 | 2120.2 |
| 5°    | 2171.0 | 2164.7 | 2161.5 | 2152.0 | 2145.5 | 2145.5 | 2132.9 | 2129.7 | 2120.2 | 2113.7 | 2107.4 |
| 7.5°  | 2183.8 | 2171.0 | 2161.5 | 2152.0 | 2145.5 | 2139.2 | 2126.5 | 2113.7 | 2101.1 | 2088.4 | 2082.0 |
| 10°   | 2183.8 | 2171.0 | 2155.2 | 2139.2 | 2132.9 | 2126.5 | 2110.6 | 2091.6 | 2075.6 | 2063.0 | 2047.0 |
| 12.5° | 2177.3 | 2158.3 | 2139.2 | 2126.5 | 2113.7 | 2104.2 | 2085.1 | 2066.1 | 2047.0 | 2021.5 | 2008.9 |
| 15°   | 2158.3 | 2132.9 | 2113.7 | 2091.6 | 2082.0 | 2066.1 | 2050.2 | 2021.5 | 1999.4 | 1977.1 | 1961.3 |
| 17.5° | 2120.2 | 2088.4 | 2066.1 | 2043.8 | 2028.0 | 2018.4 | 1993.0 | 1967.6 | 1942.1 | 1916.7 | 1897.7 |
| 20°   | 2063.0 | 2034.3 | 2008.9 | 1980.3 | 1967.6 | 1954.8 | 1923.0 | 1897.7 | 1872.2 | 1843.6 | 1824.5 |
| 22.5° | 1993.0 | 1964.4 | 1929.5 | 1907.2 | 1888.1 | 1872.2 | 1843.6 | 1815.0 | 1789.5 | 1764.2 | 1738.7 |
| 25°   | 1907.2 | 1878.6 | 1846.8 | 1811.8 | 1799.1 | 1783.2 | 1751.4 | 1722.8 | 1694.2 | 1665.5 | 1643.4 |
| 27.5° | 1815.0 | 1776.9 | 1751.4 | 1713.3 | 1700.6 | 1684.7 | 1649.7 | 1617.9 | 1592.5 | 1570.3 | 1544.8 |
| 30°   | 1703.8 | 1675.2 | 1640.2 | 1605.3 | 1592.5 | 1576.6 | 1548.0 | 1519.4 | 1493.9 | 1468.5 | 1443.1 |
| 32.5° | 1583.0 | 1554.3 | 1519.4 | 1493.9 | 1474.9 | 1462.1 | 1433.5 | 1408.2 | 1382.7 | 1357.3 | 1335.0 |
| 35°   | 1455.8 | 1424.0 | 1398.6 | 1373.1 | 1357.3 | 1341.3 | 1312.8 | 1290.5 | 1271.4 | 1249.2 | 1227.0 |
| 37.5° | 1325.5 | 1303.2 | 1277.9 | 1249.2 | 1233.3 | 1220.6 | 1198.3 | 1172.9 | 1157.0 | 1137.9 | 1122.1 |
| 40°   | 1198.3 | 1172.9 | 1150.7 | 1125.3 | 1112.5 | 1103.0 | 1080.7 | 1061.7 | 1045.7 | 1029.9 | 1020.4 |
| 42.5° | 1068.0 | 1045.7 | 1023.6 | 1007.6 | 998.1  | 988.6  | 972.7  | 950.4  | 940.9  | 925.0  | 915.4  |
| 45°   | 947.2  | 928.2  | 912.2  | 890.1  | 883.6  | 877.3  | 858.3  | 842.3  | 832.8  | 823.2  | 816.9  |
| 47.5° | 832.8  | 820.0  | 801.0  | 788.3  | 778.8  | 772.4  | 759.6  | 747.0  | 737.5  | 731.1  | 724.7  |
| 50°   | 734.3  | 718.3  | 705.7  | 692.9  | 686.6  | 677.1  | 664.4  | 657.9  | 651.6  | 645.3  | 645.3  |
| 52.5° | 642.1  | 626.1  | 613.5  | 604.0  | 597.5  | 591.2  | 581.7  | 578.5  | 572.2  | 572.2  | 569.0  |
| 55°   | 556.2  | 546.7  | 534.1  | 521.3  | 518.1  | 514.9  | 508.6  | 502.3  | 499.0  | 495.8  | 499.0  |
| 57.5° | 483.2  | 473.7  | 460.9  | 451.4  | 448.2  | 445.0  | 441.9  | 435.4  | 432.3  | 432.3  | 432.3  |
| 60°   | 416.4  | 406.9  | 397.3  | 387.8  | 387.8  | 381.5  | 378.3  | 375.1  | 371.8  | 368.7  | 368.7  |
| 62.5° | 356.0  | 346.5  | 336.9  | 330.6  | 327.4  | 324.2  | 317.9  | 314.7  | 311.5  | 311.5  | 308.4  |
| 65°   | 301.9  | 289.3  | 286.1  | 276.6  | 273.3  | 270.1  | 267.0  | 260.6  | 257.5  | 254.3  | 251.1  |
| 67.5° | 248.0  | 241.5  | 232.0  | 225.7  | 222.5  | 219.4  | 216.2  | 209.7  | 206.6  | 203.4  | 197.1  |
| 70°   | 200.2  | 193.9  | 187.6  | 181.2  | 178.1  | 174.8  | 168.4  | 162.1  | 158.9  | 152.6  | 143.0  |
| 72.5° | 155.8  | 149.4  | 143.0  | 136.7  | 133.5  | 130.3  | 124.0  | 117.7  | 111.2  | 104.9  | 98.5   |
| 75°   | 117.7  | 111.2  | 101.7  | 95.4   | 92.2   | 92.2   | 82.7   | 76.2   | 69.9   | 60.4   | 54.1   |
| 77.5° | 82.7   | 73.1   | 69.9   | 63.6   | 60.4   | 54.1   | 47.6   | 41.3   | 35.0   | 31.8   | 25.5   |
| 80°   | 54.1   | 47.6   | 41.3   | 38.1   | 35.0   | 31.8   | 28.6   | 22.3   | 15.8   | 12.7   | 9.5    |
| 82.5° | 31.8   | 28.6   | 25.5   | 22.3   | 19.1   | 15.8   | 12.7   | 12.7   | 9.5    | 6.3    | 3.2    |
| 85°   | 15.8   | 12.7   | 9.5    | 9.5    | 6.3    | 6.3    | 6.3    | 3.2    | 3.2    | 3.2    | 3.2    |
| 87.5° | 6.3    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 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  
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TEST NUMBER: P584759

CATALOG NUMBER: HCC8S45D010MB-HM82555935-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 |
| 2.5°  | 2116.9 | 2113.7 | 2110.6 | 2107.4 | 2107.4 | 2101.1 | 2101.1 | 2097.9 | 2091.6 | 2088.4 | 2088.4 |
| 5°    | 2097.9 | 2088.4 | 2082.0 | 2078.8 | 2075.6 | 2066.1 | 2063.0 | 2056.6 | 2050.2 | 2043.8 | 2040.7 |
| 7.5°  | 2069.3 | 2053.3 | 2047.0 | 2043.8 | 2034.3 | 2024.8 | 2018.4 | 2008.9 | 1999.4 | 1989.9 | 1986.6 |
| 10°   | 2034.3 | 2018.4 | 2002.5 | 1996.2 | 1986.6 | 1980.3 | 1967.6 | 1954.8 | 1945.3 | 1935.8 | 1926.3 |
| 12.5° | 1989.9 | 1970.8 | 1954.8 | 1948.5 | 1939.0 | 1926.3 | 1907.2 | 1900.8 | 1884.9 | 1878.6 | 1865.9 |
| 15°   | 1939.0 | 1916.7 | 1900.8 | 1891.2 | 1881.7 | 1862.7 | 1849.9 | 1837.3 | 1821.3 | 1815.0 | 1802.3 |
| 17.5° | 1875.4 | 1849.9 | 1834.1 | 1824.5 | 1818.2 | 1802.3 | 1783.2 | 1767.4 | 1751.4 | 1745.1 | 1735.6 |
| 20°   | 1799.1 | 1783.2 | 1760.9 | 1751.4 | 1745.1 | 1726.0 | 1706.9 | 1700.6 | 1687.8 | 1675.2 | 1665.5 |
| 22.5° | 1713.3 | 1697.3 | 1675.2 | 1665.5 | 1662.4 | 1646.5 | 1630.6 | 1621.1 | 1611.6 | 1602.1 | 1592.5 |
| 25°   | 1624.3 | 1605.3 | 1586.1 | 1579.8 | 1573.5 | 1560.7 | 1548.0 | 1541.7 | 1532.1 | 1525.7 | 1519.4 |
| 27.5° | 1528.9 | 1509.9 | 1493.9 | 1484.4 | 1478.1 | 1468.5 | 1462.1 | 1455.8 | 1449.5 | 1443.1 | 1440.0 |
| 30°   | 1427.2 | 1408.2 | 1395.4 | 1389.1 | 1382.7 | 1379.6 | 1369.9 | 1366.8 | 1363.6 | 1357.3 | 1360.4 |
| 32.5° | 1325.5 | 1309.5 | 1296.9 | 1287.4 | 1287.4 | 1281.0 | 1277.9 | 1277.9 | 1274.6 | 1274.6 | 1274.6 |
| 35°   | 1214.3 | 1204.7 | 1195.2 | 1192.0 | 1188.8 | 1185.7 | 1182.5 | 1185.7 | 1182.5 | 1185.7 | 1188.8 |
| 37.5° | 1112.5 | 1103.0 | 1096.6 | 1093.5 | 1090.3 | 1093.5 | 1090.3 | 1090.3 | 1093.5 | 1099.8 | 1103.0 |
| 40°   | 1007.6 | 1001.3 | 994.9  | 998.1  | 994.9  | 994.9  | 994.9  | 1004.4 | 1007.6 | 1010.8 | 1013.9 |
| 42.5° | 909.1  | 902.7  | 899.6  | 899.6  | 902.7  | 899.6  | 905.9  | 909.1  | 915.4  | 925.0  | 931.4  |
| 45°   | 813.7  | 810.5  | 810.5  | 813.7  | 810.5  | 816.9  | 816.9  | 823.2  | 832.8  | 839.2  | 845.5  |
| 47.5° | 724.7  | 724.7  | 724.7  | 728.0  | 728.0  | 731.1  | 737.5  | 740.6  | 747.0  | 753.3  | 759.6  |
| 50°   | 642.1  | 645.3  | 648.4  | 648.4  | 648.4  | 654.8  | 661.1  | 664.4  | 667.6  | 670.7  | 680.2  |
| 52.5° | 569.0  | 572.2  | 572.2  | 575.4  | 578.5  | 581.7  | 584.9  | 591.2  | 594.4  | 600.8  | 604.0  |
| 55°   | 499.0  | 499.0  | 505.4  | 508.6  | 508.6  | 508.6  | 514.9  | 514.9  | 521.3  | 524.4  | 530.8  |
| 57.5° | 432.3  | 435.4  | 435.4  | 438.7  | 438.7  | 441.9  | 445.0  | 448.2  | 451.4  | 454.5  | 457.7  |
| 60°   | 368.7  | 368.7  | 368.7  | 371.8  | 375.1  | 378.3  | 375.1  | 381.5  | 381.5  | 387.8  | 391.0  |
| 62.5° | 308.4  | 311.5  | 311.5  | 311.5  | 311.5  | 311.5  | 311.5  | 314.7  | 317.9  | 321.1  | 324.2  |
| 65°   | 251.1  | 251.1  | 251.1  | 248.0  | 251.1  | 248.0  | 251.1  | 254.3  | 254.3  | 257.5  | 260.6  |
| 67.5° | 193.9  | 193.9  | 187.6  | 187.6  | 190.7  | 190.7  | 190.7  | 190.7  | 187.6  | 193.9  | 193.9  |
| 70°   | 139.8  | 136.7  | 133.5  | 130.3  | 130.3  | 127.2  | 127.2  | 124.0  | 124.0  | 124.0  | 124.0  |
| 72.5° | 92.2   | 85.9   | 79.4   | 76.2   | 73.1   | 73.1   | 66.7   | 63.6   | 66.7   | 66.7   | 66.7   |
| 75°   | 47.6   | 41.3   | 38.1   | 35.0   | 31.8   | 31.8   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   |
| 77.5° | 19.1   | 15.8   | 12.7   | 12.7   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 80°   | 6.3    | 6.3    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 82.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 85°   | 3.2    | 0.0    | 0.0    | 3.2    | 0.0    | 3.2    | 3.2    | 3.2    | 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: P584759

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**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 | 2126.5 |
| 2.5°  | 2085.1 | 2085.1 | 2082.0 | 2085.1 | 2078.8 | 2082.0 | 2078.8 | 2078.8 |
| 5°    | 2037.5 | 2031.2 | 2031.2 | 2031.2 | 2028.0 | 2028.0 | 2024.8 | 2024.8 |
| 7.5°  | 1980.3 | 1977.1 | 1973.9 | 1970.8 | 1967.6 | 1964.4 | 1964.4 | 1964.4 |
| 10°   | 1923.0 | 1916.7 | 1916.7 | 1913.5 | 1907.2 | 1904.0 | 1904.0 | 1904.0 |
| 12.5° | 1856.3 | 1853.1 | 1849.9 | 1849.9 | 1837.3 | 1840.4 | 1837.3 | 1837.3 |
| 15°   | 1792.7 | 1789.5 | 1789.5 | 1780.0 | 1773.7 | 1773.7 | 1773.7 | 1770.5 |
| 17.5° | 1726.0 | 1722.8 | 1719.6 | 1713.3 | 1706.9 | 1706.9 | 1703.8 | 1706.9 |
| 20°   | 1656.0 | 1652.9 | 1646.5 | 1646.5 | 1643.4 | 1640.2 | 1633.9 | 1637.0 |
| 22.5° | 1586.1 | 1579.8 | 1576.6 | 1576.6 | 1573.5 | 1573.5 | 1567.0 | 1567.0 |
| 25°   | 1513.1 | 1509.9 | 1506.7 | 1509.9 | 1503.4 | 1503.4 | 1497.1 | 1497.1 |
| 27.5° | 1436.7 | 1433.5 | 1433.5 | 1433.5 | 1430.4 | 1433.5 | 1430.4 | 1430.4 |
| 30°   | 1360.4 | 1360.4 | 1357.3 | 1357.3 | 1360.4 | 1357.3 | 1360.4 | 1363.6 |
| 32.5° | 1277.9 | 1277.9 | 1281.0 | 1281.0 | 1284.2 | 1284.2 | 1284.2 | 1284.2 |
| 35°   | 1192.0 | 1198.3 | 1198.3 | 1201.5 | 1204.7 | 1207.8 | 1207.8 | 1211.0 |
| 37.5° | 1112.5 | 1115.6 | 1118.9 | 1122.1 | 1128.4 | 1128.4 | 1128.4 | 1128.4 |
| 40°   | 1026.7 | 1029.9 | 1036.2 | 1033.1 | 1045.7 | 1048.9 | 1045.7 | 1045.7 |
| 42.5° | 937.7  | 944.0  | 947.2  | 953.5  | 956.8  | 963.2  | 966.3  | 966.3  |
| 45°   | 855.0  | 858.3  | 864.6  | 871.0  | 874.1  | 883.6  | 883.6  | 883.6  |
| 47.5° | 769.3  | 775.6  | 778.8  | 785.1  | 788.3  | 797.9  | 801.0  | 797.9  |
| 50°   | 686.6  | 692.9  | 699.3  | 699.3  | 708.8  | 712.0  | 718.3  | 721.5  |
| 52.5° | 607.1  | 610.3  | 616.6  | 619.8  | 626.1  | 632.6  | 635.8  | 638.9  |
| 55°   | 530.8  | 534.1  | 540.4  | 540.4  | 549.9  | 553.1  | 559.4  | 559.4  |
| 57.5° | 460.9  | 464.0  | 470.5  | 467.2  | 473.7  | 480.0  | 480.0  | 476.8  |
| 60°   | 394.1  | 394.1  | 394.1  | 400.5  | 403.6  | 406.9  | 410.1  | 410.1  |
| 62.5° | 324.2  | 330.6  | 333.7  | 333.7  | 336.9  | 340.2  | 340.2  | 336.9  |
| 65°   | 260.6  | 267.0  | 270.1  | 270.1  | 273.3  | 273.3  | 273.3  | 276.6  |
| 67.5° | 197.1  | 197.1  | 197.1  | 200.2  | 197.1  | 197.1  | 197.1  | 197.1  |
| 70°   | 124.0  | 124.0  | 124.0  | 124.0  | 120.8  | 124.0  | 124.0  | 127.2  |
| 72.5° | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   |
| 75°   | 28.6   | 28.6   | 28.6   | 31.8   | 28.6   | 28.6   | 28.6   | 28.6   |
| 77.5° | 12.7   | 9.5    | 12.7   | 12.7   | 9.5    | 9.5    | 9.5    | 9.5    |
| 80°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 82.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 85°   | 0.0    | 3.2    | 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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Scaled Data Report



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

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Peachtree City, GA 30269

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