

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: P593819

Luminaire Tested: **HCC8W50D010MW-HM82555950-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593819  
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: HCC8W50D010MW-HM82555950-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

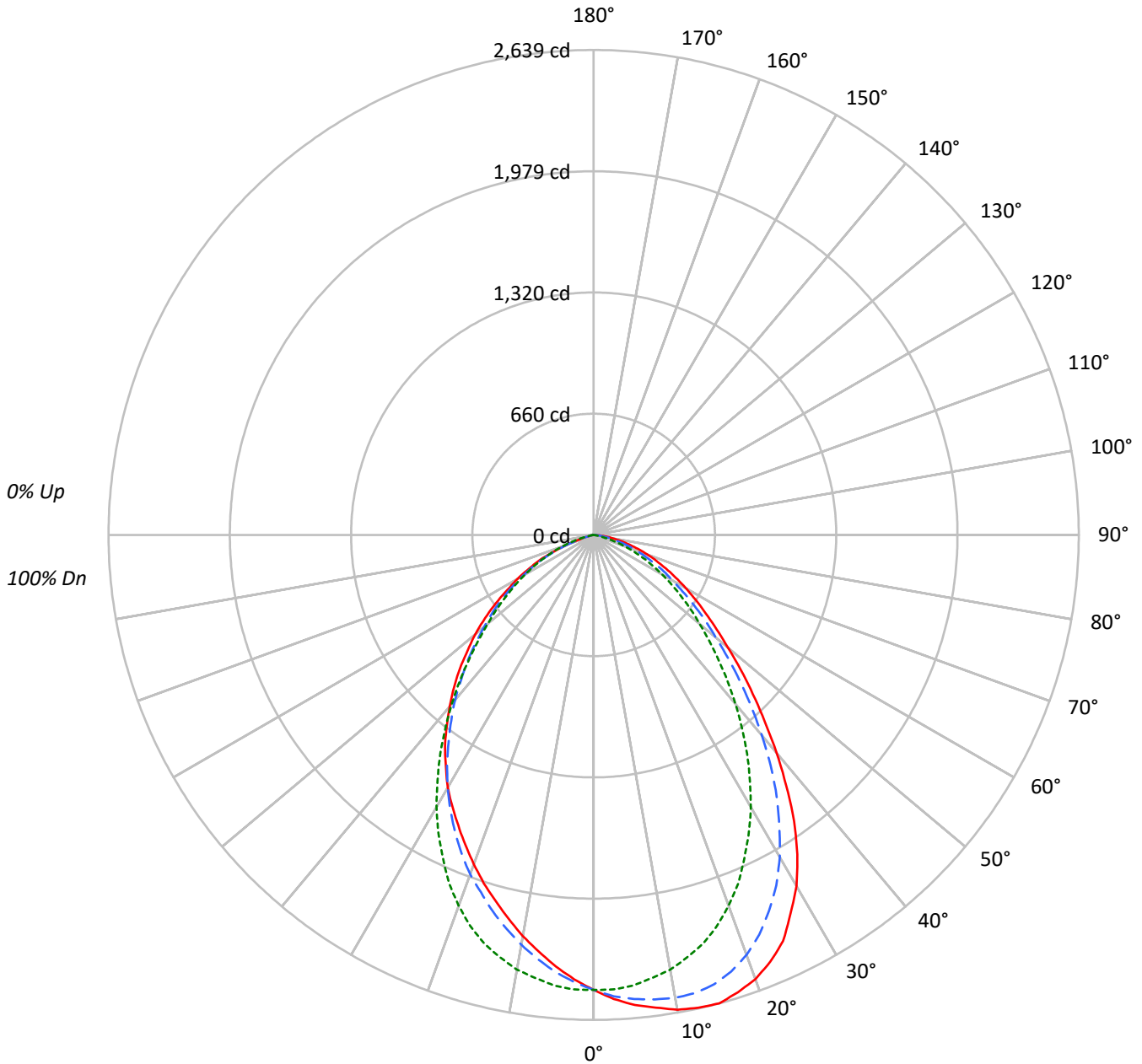
Lumens per Lamp: N/A  
Luminaire Lumens: 4611.8 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (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°  | 76345 | 76345 | 76345 |
| 5°  | 79503 | 76181 | 72971 |
| 10° | 82160 | 75205 | 69412 |
| 15° | 84238 | 73486 | 65808 |
| 20° | 84401 | 70438 | 62543 |
| 25° | 82981 | 65983 | 59307 |
| 30° | 78538 | 60880 | 56529 |
| 35° | 71607 | 54753 | 53078 |
| 40° | 62269 | 48264 | 49013 |
| 45° | 53421 | 41799 | 44865 |
| 50° | 45627 | 36042 | 40297 |
| 55° | 39988 | 31042 | 35020 |
| 60° | 35610 | 26476 | 29443 |
| 65° | 31594 | 21605 | 23487 |
| 70° | 28022 | 16021 | 13344 |
| 75° | 23376 | 8388  | 3967  |
| 80° | 18397 | 2628  | 657   |
| 85° | 13126 | 1309  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.3  | 5.1       |
| 10°-20°   | 653.9  | 14.2      |
| 20°-30°   | 925.5  | 20.1      |
| 30°-40°   | 968.2  | 21.0      |
| 40°-50°   | 807.6  | 17.5      |
| 50°-60°   | 572.7  | 12.4      |
| 60°-70°   | 329.8  | 7.2       |
| 70°-80°   | 106.1  | 2.3       |
| 80°-90°   | 14.6   | 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°    | 1812.7 | 39.3      |
| 0°-40°    | 2780.9 | 60.3      |
| 0°-60°    | 4161.2 | 90.2      |
| 0°-90°    | 4611.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4611.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2476 | 2476 | 2476 | 2476 | 2476 |      |
| 5°  | 2568 | 2535 | 2461 | 2387 | 2357 | 246  |
| 15° | 2639 | 2531 | 2302 | 2121 | 2061 | 742  |
| 25° | 2439 | 2258 | 1939 | 1784 | 1743 | 1113 |
| 35° | 1902 | 1736 | 1454 | 1377 | 1410 | 1179 |
| 45° | 1225 | 1125 | 958  | 970  | 1029 | 949  |
| 55° | 744  | 666  | 577  | 607  | 651  | 672  |
| 65° | 433  | 363  | 296  | 296  | 322  | 433  |
| 75° | 196  | 144  | 70   | 33   | 33   | 213  |
| 85° | 37   | 18   | 4    | 0    | 0    | 46   |
| 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°    | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 |
| 2.5°  | 2527.6 | 2524.0 | 2520.2 | 2524.0 | 2520.2 | 2524.0 | 2520.2 | 2520.2 | 2516.5 | 2512.9 | 2512.9 |
| 5°    | 2568.4 | 2564.7 | 2564.7 | 2564.7 | 2560.9 | 2557.3 | 2557.3 | 2553.6 | 2546.2 | 2542.5 | 2535.1 |
| 7.5°  | 2594.2 | 2598.0 | 2598.0 | 2598.0 | 2590.6 | 2590.6 | 2583.1 | 2575.8 | 2568.4 | 2560.9 | 2549.8 |
| 10°   | 2623.9 | 2623.9 | 2620.2 | 2616.5 | 2609.1 | 2605.4 | 2601.7 | 2594.2 | 2583.1 | 2568.4 | 2557.3 |
| 12.5° | 2635.0 | 2635.0 | 2631.3 | 2623.9 | 2620.2 | 2616.5 | 2612.8 | 2601.7 | 2586.9 | 2568.4 | 2553.6 |
| 15°   | 2638.7 | 2631.3 | 2627.6 | 2623.9 | 2616.5 | 2605.4 | 2605.4 | 2590.6 | 2572.0 | 2549.8 | 2531.4 |
| 17.5° | 2609.1 | 2612.8 | 2605.4 | 2598.0 | 2586.9 | 2579.5 | 2568.4 | 2557.3 | 2535.1 | 2509.1 | 2490.7 |
| 20°   | 2572.0 | 2568.4 | 2564.7 | 2553.6 | 2538.7 | 2535.1 | 2524.0 | 2505.5 | 2486.9 | 2457.4 | 2431.4 |
| 22.5° | 2512.9 | 2509.1 | 2501.8 | 2494.4 | 2479.6 | 2472.2 | 2461.1 | 2438.9 | 2412.9 | 2383.4 | 2353.8 |
| 25°   | 2438.9 | 2431.4 | 2420.3 | 2405.6 | 2394.5 | 2387.0 | 2372.3 | 2350.0 | 2320.5 | 2287.1 | 2257.5 |
| 27.5° | 2320.5 | 2331.6 | 2324.1 | 2301.9 | 2290.8 | 2276.0 | 2272.3 | 2242.7 | 2216.8 | 2183.5 | 2150.1 |
| 30°   | 2205.7 | 2205.7 | 2194.6 | 2183.5 | 2165.0 | 2153.9 | 2139.0 | 2116.8 | 2091.0 | 2050.3 | 2024.4 |
| 32.5° | 2061.4 | 2057.7 | 2042.8 | 2039.2 | 2024.4 | 2002.1 | 1998.4 | 1968.8 | 1942.9 | 1913.3 | 1880.0 |
| 35°   | 1902.2 | 1894.8 | 1880.0 | 1868.9 | 1861.5 | 1850.4 | 1839.3 | 1813.4 | 1787.5 | 1757.9 | 1735.7 |
| 37.5° | 1720.9 | 1720.9 | 1717.1 | 1698.7 | 1691.3 | 1683.8 | 1672.7 | 1646.9 | 1632.0 | 1602.5 | 1580.3 |
| 40°   | 1546.9 | 1543.2 | 1532.1 | 1528.5 | 1521.0 | 1509.9 | 1502.5 | 1487.8 | 1465.6 | 1443.4 | 1421.2 |
| 42.5° | 1376.7 | 1380.4 | 1365.6 | 1369.2 | 1354.5 | 1347.2 | 1343.4 | 1321.2 | 1310.1 | 1287.9 | 1269.4 |
| 45°   | 1225.0 | 1221.3 | 1213.9 | 1210.1 | 1202.8 | 1195.4 | 1187.9 | 1176.8 | 1158.4 | 1136.2 | 1125.0 |
| 47.5° | 1084.4 | 1073.3 | 1073.3 | 1069.5 | 1065.9 | 1051.0 | 1047.3 | 1036.2 | 1025.1 | 1002.9 | 988.2  |
| 50°   | 951.1  | 951.1  | 951.1  | 947.4  | 936.3  | 932.6  | 925.3  | 914.2  | 903.1  | 888.2  | 866.0  |
| 52.5° | 843.8  | 843.8  | 843.8  | 840.0  | 825.3  | 821.6  | 817.8  | 803.1  | 788.3  | 777.2  | 762.4  |
| 55°   | 743.8  | 747.6  | 743.8  | 736.5  | 725.4  | 725.4  | 714.3  | 706.9  | 692.0  | 680.9  | 666.1  |
| 57.5° | 658.7  | 658.7  | 651.4  | 647.6  | 640.3  | 636.5  | 629.2  | 621.8  | 603.2  | 592.1  | 573.6  |
| 60°   | 577.4  | 573.6  | 573.6  | 566.3  | 558.8  | 551.4  | 547.7  | 536.6  | 529.2  | 510.7  | 495.9  |
| 62.5° | 503.3  | 503.3  | 495.9  | 495.9  | 481.2  | 481.2  | 477.4  | 466.3  | 455.2  | 436.7  | 429.3  |
| 65°   | 433.0  | 433.0  | 429.3  | 425.6  | 414.5  | 410.8  | 407.0  | 395.9  | 384.8  | 373.7  | 362.6  |
| 67.5° | 370.1  | 370.1  | 362.6  | 359.0  | 351.6  | 347.9  | 340.5  | 333.0  | 321.9  | 310.8  | 299.7  |
| 70°   | 310.8  | 307.2  | 303.5  | 299.7  | 292.4  | 288.6  | 281.3  | 273.9  | 262.8  | 255.3  | 244.2  |
| 72.5° | 251.7  | 251.7  | 247.9  | 240.6  | 236.8  | 233.1  | 229.5  | 222.0  | 211.0  | 199.9  | 192.4  |
| 75°   | 196.2  | 196.2  | 196.2  | 188.8  | 181.3  | 177.7  | 177.7  | 170.2  | 162.8  | 151.7  | 144.4  |
| 77.5° | 151.7  | 148.0  | 144.4  | 144.4  | 136.9  | 133.3  | 129.5  | 125.8  | 114.7  | 111.1  | 103.6  |
| 80°   | 103.6  | 107.3  | 103.6  | 99.9   | 96.2   | 92.5   | 92.5   | 85.1   | 81.4   | 74.0   | 66.6   |
| 82.5° | 70.4   | 66.6   | 66.6   | 62.9   | 62.9   | 59.3   | 59.3   | 51.8   | 48.2   | 44.4   | 40.7   |
| 85°   | 37.1   | 37.1   | 33.3   | 33.3   | 33.3   | 29.6   | 29.6   | 26.0   | 26.0   | 22.2   | 18.5   |
| 87.5° | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 7.4    | 7.4    | 7.4    |
| 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°    | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 |
| 2.5°  | 2509.1 | 2501.8 | 2498.0 | 2498.0 | 2494.4 | 2490.7 | 2486.9 | 2483.3 | 2475.8 | 2475.8 | 2468.5 |
| 5°    | 2527.6 | 2520.2 | 2516.5 | 2505.5 | 2498.0 | 2498.0 | 2483.3 | 2479.6 | 2468.5 | 2461.1 | 2453.6 |
| 7.5°  | 2542.5 | 2527.6 | 2516.5 | 2505.5 | 2498.0 | 2490.7 | 2475.8 | 2461.1 | 2446.2 | 2431.4 | 2424.0 |
| 10°   | 2542.5 | 2527.6 | 2509.1 | 2490.7 | 2483.3 | 2475.8 | 2457.4 | 2435.1 | 2416.7 | 2401.8 | 2383.4 |
| 12.5° | 2535.1 | 2512.9 | 2490.7 | 2475.8 | 2461.1 | 2450.0 | 2427.8 | 2405.6 | 2383.4 | 2353.8 | 2338.9 |
| 15°   | 2512.9 | 2483.3 | 2461.1 | 2435.1 | 2424.0 | 2405.6 | 2387.0 | 2353.8 | 2327.8 | 2301.9 | 2283.4 |
| 17.5° | 2468.5 | 2431.4 | 2405.6 | 2379.6 | 2361.1 | 2350.0 | 2320.5 | 2290.8 | 2261.2 | 2231.6 | 2209.4 |
| 20°   | 2401.8 | 2368.5 | 2338.9 | 2305.6 | 2290.8 | 2276.0 | 2239.0 | 2209.4 | 2179.8 | 2146.5 | 2124.3 |
| 22.5° | 2320.5 | 2287.1 | 2246.4 | 2220.5 | 2198.3 | 2179.8 | 2146.5 | 2113.2 | 2083.5 | 2053.9 | 2024.4 |
| 25°   | 2220.5 | 2187.2 | 2150.1 | 2109.5 | 2094.6 | 2076.1 | 2039.2 | 2005.9 | 1972.6 | 1939.3 | 1913.3 |
| 27.5° | 2113.2 | 2068.8 | 2039.2 | 1994.8 | 1979.9 | 1961.5 | 1920.8 | 1883.7 | 1854.2 | 1828.2 | 1798.6 |
| 30°   | 1983.7 | 1950.4 | 1909.7 | 1868.9 | 1854.2 | 1835.6 | 1802.2 | 1769.0 | 1739.4 | 1709.8 | 1680.2 |
| 32.5° | 1843.0 | 1809.7 | 1769.0 | 1739.4 | 1717.1 | 1702.4 | 1669.1 | 1639.5 | 1609.8 | 1580.3 | 1554.3 |
| 35°   | 1694.9 | 1658.0 | 1628.4 | 1598.7 | 1580.3 | 1561.8 | 1528.5 | 1502.5 | 1480.3 | 1454.5 | 1428.5 |
| 37.5° | 1543.2 | 1517.4 | 1487.8 | 1454.5 | 1435.9 | 1421.2 | 1395.2 | 1365.6 | 1347.2 | 1324.9 | 1306.4 |
| 40°   | 1395.2 | 1365.6 | 1339.7 | 1310.1 | 1295.3 | 1284.1 | 1258.3 | 1236.1 | 1217.6 | 1199.0 | 1187.9 |
| 42.5° | 1243.5 | 1217.6 | 1191.7 | 1173.2 | 1162.1 | 1151.0 | 1132.4 | 1106.6 | 1095.5 | 1076.9 | 1065.9 |
| 45°   | 1102.8 | 1080.6 | 1062.2 | 1036.2 | 1028.8 | 1021.5 | 999.3  | 980.7  | 969.6  | 958.5  | 951.1  |
| 47.5° | 969.6  | 954.8  | 932.6  | 917.8  | 906.7  | 899.3  | 884.5  | 869.7  | 858.6  | 851.1  | 843.8  |
| 50°   | 854.9  | 836.4  | 821.6  | 806.7  | 799.4  | 788.3  | 773.5  | 766.0  | 758.7  | 751.3  | 751.3  |
| 52.5° | 747.6  | 729.1  | 714.3  | 703.2  | 695.8  | 688.3  | 677.2  | 673.6  | 666.1  | 666.1  | 662.5  |
| 55°   | 647.6  | 636.5  | 621.8  | 606.9  | 603.2  | 599.6  | 592.1  | 584.7  | 581.0  | 577.4  | 581.0  |
| 57.5° | 562.5  | 551.4  | 536.6  | 525.5  | 521.8  | 518.1  | 514.4  | 507.0  | 503.3  | 503.3  | 503.3  |
| 60°   | 484.8  | 473.7  | 462.6  | 451.5  | 451.5  | 444.1  | 440.4  | 436.7  | 433.0  | 429.3  | 429.3  |
| 62.5° | 414.5  | 403.4  | 392.3  | 384.8  | 381.2  | 377.5  | 370.1  | 366.4  | 362.6  | 362.6  | 359.0  |
| 65°   | 351.6  | 336.8  | 333.0  | 321.9  | 318.3  | 314.6  | 310.8  | 303.5  | 299.7  | 296.1  | 292.4  |
| 67.5° | 288.6  | 281.3  | 270.2  | 262.8  | 259.1  | 255.3  | 251.7  | 244.2  | 240.6  | 236.8  | 229.5  |
| 70°   | 233.1  | 225.7  | 218.4  | 211.0  | 207.3  | 203.5  | 196.2  | 188.8  | 185.1  | 177.7  | 166.6  |
| 72.5° | 181.3  | 173.9  | 166.6  | 159.1  | 155.5  | 151.7  | 144.4  | 136.9  | 129.5  | 122.2  | 114.7  |
| 75°   | 136.9  | 129.5  | 118.4  | 111.1  | 107.3  | 107.3  | 96.2   | 88.8   | 81.4   | 70.4   | 62.9   |
| 77.5° | 96.2   | 85.1   | 81.4   | 74.0   | 70.4   | 62.9   | 55.5   | 48.2   | 40.7   | 37.1   | 29.6   |
| 80°   | 62.9   | 55.5   | 48.2   | 44.4   | 40.7   | 37.1   | 33.3   | 26.0   | 18.5   | 14.8   | 11.1   |
| 82.5° | 37.1   | 33.3   | 29.6   | 26.0   | 22.2   | 18.5   | 14.8   | 14.8   | 11.1   | 7.4    | 3.7    |
| 85°   | 18.5   | 14.8   | 11.1   | 11.1   | 7.4    | 7.4    | 7.4    | 3.7    | 3.7    | 3.7    | 3.7    |
| 87.5° | 7.4    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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



TEST NUMBER: P593819

CATALOG NUMBER: HCC8W50D010MW-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 |
| 2.5°  | 2464.7 | 2461.1 | 2457.4 | 2453.6 | 2453.6 | 2446.2 | 2446.2 | 2442.5 | 2435.1 | 2431.4 | 2431.4 |
| 5°    | 2442.5 | 2431.4 | 2424.0 | 2420.3 | 2416.7 | 2405.6 | 2401.8 | 2394.5 | 2387.0 | 2379.6 | 2375.9 |
| 7.5°  | 2409.2 | 2390.7 | 2383.4 | 2379.6 | 2368.5 | 2357.4 | 2350.0 | 2338.9 | 2327.8 | 2316.7 | 2313.0 |
| 10°   | 2368.5 | 2350.0 | 2331.6 | 2324.1 | 2313.0 | 2305.6 | 2290.8 | 2276.0 | 2264.9 | 2253.8 | 2242.7 |
| 12.5° | 2316.7 | 2294.5 | 2276.0 | 2268.6 | 2257.5 | 2242.7 | 2220.5 | 2213.2 | 2194.6 | 2187.2 | 2172.4 |
| 15°   | 2257.5 | 2231.6 | 2213.2 | 2202.0 | 2190.9 | 2168.7 | 2153.9 | 2139.0 | 2120.6 | 2113.2 | 2098.4 |
| 17.5° | 2183.5 | 2153.9 | 2135.4 | 2124.3 | 2116.8 | 2098.4 | 2076.1 | 2057.7 | 2039.2 | 2031.7 | 2020.6 |
| 20°   | 2094.6 | 2076.1 | 2050.3 | 2039.2 | 2031.7 | 2009.5 | 1987.3 | 1979.9 | 1965.1 | 1950.4 | 1939.3 |
| 22.5° | 1994.8 | 1976.2 | 1950.4 | 1939.3 | 1935.5 | 1917.0 | 1898.6 | 1887.5 | 1876.4 | 1865.3 | 1854.2 |
| 25°   | 1891.1 | 1868.9 | 1846.7 | 1839.3 | 1831.9 | 1817.1 | 1802.2 | 1794.9 | 1783.8 | 1776.4 | 1769.0 |
| 27.5° | 1780.2 | 1757.9 | 1739.4 | 1728.2 | 1720.9 | 1709.8 | 1702.4 | 1694.9 | 1687.6 | 1680.2 | 1676.5 |
| 30°   | 1661.6 | 1639.5 | 1624.7 | 1617.3 | 1609.8 | 1606.2 | 1595.1 | 1591.4 | 1587.6 | 1580.3 | 1584.0 |
| 32.5° | 1543.2 | 1524.7 | 1509.9 | 1498.9 | 1498.9 | 1491.4 | 1487.8 | 1487.8 | 1484.0 | 1484.0 | 1484.0 |
| 35°   | 1413.7 | 1402.6 | 1391.5 | 1387.8 | 1384.1 | 1380.4 | 1376.7 | 1380.4 | 1376.7 | 1380.4 | 1384.1 |
| 37.5° | 1295.3 | 1284.1 | 1276.8 | 1273.0 | 1269.4 | 1273.0 | 1269.4 | 1269.4 | 1273.0 | 1280.5 | 1284.1 |
| 40°   | 1173.2 | 1165.7 | 1158.4 | 1162.1 | 1158.4 | 1158.4 | 1158.4 | 1169.5 | 1173.2 | 1176.8 | 1180.6 |
| 42.5° | 1058.4 | 1051.0 | 1047.3 | 1047.3 | 1051.0 | 1047.3 | 1054.8 | 1058.4 | 1065.9 | 1076.9 | 1084.4 |
| 45°   | 947.4  | 943.7  | 943.7  | 947.4  | 943.7  | 951.1  | 951.1  | 958.5  | 969.6  | 977.1  | 984.4  |
| 47.5° | 843.8  | 843.8  | 843.8  | 847.5  | 847.5  | 851.1  | 858.6  | 862.3  | 869.7  | 877.1  | 884.5  |
| 50°   | 747.6  | 751.3  | 754.9  | 754.9  | 754.9  | 762.4  | 769.8  | 773.5  | 777.2  | 780.9  | 792.0  |
| 52.5° | 662.5  | 666.1  | 666.1  | 669.8  | 673.6  | 677.2  | 680.9  | 688.3  | 692.0  | 699.4  | 703.2  |
| 55°   | 581.0  | 581.0  | 588.5  | 592.1  | 592.1  | 592.1  | 599.6  | 599.6  | 606.9  | 610.7  | 618.1  |
| 57.5° | 503.3  | 507.0  | 507.0  | 510.7  | 510.7  | 514.4  | 518.1  | 521.8  | 525.5  | 529.2  | 532.9  |
| 60°   | 429.3  | 429.3  | 429.3  | 433.0  | 436.7  | 440.4  | 436.7  | 444.1  | 444.1  | 451.5  | 455.2  |
| 62.5° | 359.0  | 362.6  | 362.6  | 362.6  | 362.6  | 362.6  | 362.6  | 366.4  | 370.1  | 373.7  | 377.5  |
| 65°   | 292.4  | 292.4  | 292.4  | 288.6  | 292.4  | 288.6  | 292.4  | 296.1  | 296.1  | 299.7  | 303.5  |
| 67.5° | 225.7  | 225.7  | 218.4  | 218.4  | 222.0  | 222.0  | 222.0  | 222.0  | 218.4  | 225.7  | 225.7  |
| 70°   | 162.8  | 159.1  | 155.5  | 151.7  | 151.7  | 148.0  | 148.0  | 144.4  | 144.4  | 144.4  | 144.4  |
| 72.5° | 107.3  | 99.9   | 92.5   | 88.8   | 85.1   | 85.1   | 77.7   | 74.0   | 77.7   | 77.7   | 77.7   |
| 75°   | 55.5   | 48.2   | 44.4   | 40.7   | 37.1   | 37.1   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   |
| 77.5° | 22.2   | 18.5   | 14.8   | 14.8   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   |
| 80°   | 7.4    | 7.4    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 82.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 85°   | 3.7    | 0.0    | 0.0    | 3.7    | 0.0    | 3.7    | 3.7    | 3.7    | 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: P593819

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**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 | 2475.8 |
| 2.5°  | 2427.8 | 2427.8 | 2424.0 | 2427.8 | 2420.3 | 2424.0 | 2420.3 | 2420.3 |
| 5°    | 2372.3 | 2364.8 | 2364.8 | 2364.8 | 2361.1 | 2361.1 | 2357.4 | 2357.4 |
| 7.5°  | 2305.6 | 2301.9 | 2298.3 | 2294.5 | 2290.8 | 2287.1 | 2287.1 | 2287.1 |
| 10°   | 2239.0 | 2231.6 | 2231.6 | 2227.9 | 2220.5 | 2216.8 | 2216.8 | 2216.8 |
| 12.5° | 2161.2 | 2157.6 | 2153.9 | 2153.9 | 2139.0 | 2142.8 | 2139.0 | 2139.0 |
| 15°   | 2087.2 | 2083.5 | 2083.5 | 2072.5 | 2065.0 | 2065.0 | 2065.0 | 2061.4 |
| 17.5° | 2009.5 | 2005.9 | 2002.1 | 1994.8 | 1987.3 | 1987.3 | 1983.7 | 1987.3 |
| 20°   | 1928.1 | 1924.4 | 1917.0 | 1917.0 | 1913.3 | 1909.7 | 1902.2 | 1905.9 |
| 22.5° | 1846.7 | 1839.3 | 1835.6 | 1835.6 | 1831.9 | 1831.9 | 1824.5 | 1824.5 |
| 25°   | 1761.6 | 1757.9 | 1754.2 | 1757.9 | 1750.5 | 1750.5 | 1743.1 | 1743.1 |
| 27.5° | 1672.7 | 1669.1 | 1669.1 | 1669.1 | 1665.4 | 1669.1 | 1665.4 | 1665.4 |
| 30°   | 1584.0 | 1584.0 | 1580.3 | 1580.3 | 1584.0 | 1580.3 | 1584.0 | 1587.6 |
| 32.5° | 1487.8 | 1487.8 | 1491.4 | 1491.4 | 1495.2 | 1495.2 | 1495.2 | 1495.2 |
| 35°   | 1387.8 | 1395.2 | 1395.2 | 1398.9 | 1402.6 | 1406.3 | 1406.3 | 1410.0 |
| 37.5° | 1295.3 | 1299.0 | 1302.7 | 1306.4 | 1313.8 | 1313.8 | 1313.8 | 1313.8 |
| 40°   | 1195.4 | 1199.0 | 1206.5 | 1202.8 | 1217.6 | 1221.3 | 1217.6 | 1217.6 |
| 42.5° | 1091.7 | 1099.1 | 1102.8 | 1110.2 | 1113.9 | 1121.3 | 1125.0 | 1125.0 |
| 45°   | 995.5  | 999.3  | 1006.6 | 1014.0 | 1017.7 | 1028.8 | 1028.8 | 1028.8 |
| 47.5° | 895.6  | 903.1  | 906.7  | 914.2  | 917.8  | 928.9  | 932.6  | 928.9  |
| 50°   | 799.4  | 806.7  | 814.2  | 814.2  | 825.3  | 828.9  | 836.4  | 840.0  |
| 52.5° | 706.9  | 710.5  | 718.0  | 721.6  | 729.1  | 736.5  | 740.2  | 743.8  |
| 55°   | 618.1  | 621.8  | 629.2  | 629.2  | 640.3  | 644.0  | 651.4  | 651.4  |
| 57.5° | 536.6  | 540.3  | 547.7  | 544.1  | 551.4  | 558.8  | 558.8  | 555.2  |
| 60°   | 458.9  | 458.9  | 458.9  | 466.3  | 470.1  | 473.7  | 477.4  | 477.4  |
| 62.5° | 377.5  | 384.8  | 388.6  | 388.6  | 392.3  | 395.9  | 395.9  | 392.3  |
| 65°   | 303.5  | 310.8  | 314.6  | 314.6  | 318.3  | 318.3  | 318.3  | 321.9  |
| 67.5° | 229.5  | 229.5  | 229.5  | 233.1  | 229.5  | 229.5  | 229.5  | 229.5  |
| 70°   | 144.4  | 144.4  | 144.4  | 144.4  | 140.6  | 144.4  | 144.4  | 148.0  |
| 72.5° | 77.7   | 77.7   | 77.7   | 77.7   | 77.7   | 77.7   | 77.7   | 77.7   |
| 75°   | 33.3   | 33.3   | 33.3   | 37.1   | 33.3   | 33.3   | 33.3   | 33.3   |
| 77.5° | 14.8   | 11.1   | 14.8   | 14.8   | 11.1   | 11.1   | 11.1   | 11.1   |
| 80°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 82.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 85°   | 0.0    | 3.7    | 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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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