

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: P585288

Luminaire Tested: **HCC8S80D010MW-HM86080930-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585288  
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: HCC8S80D010MW-HM86080930-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

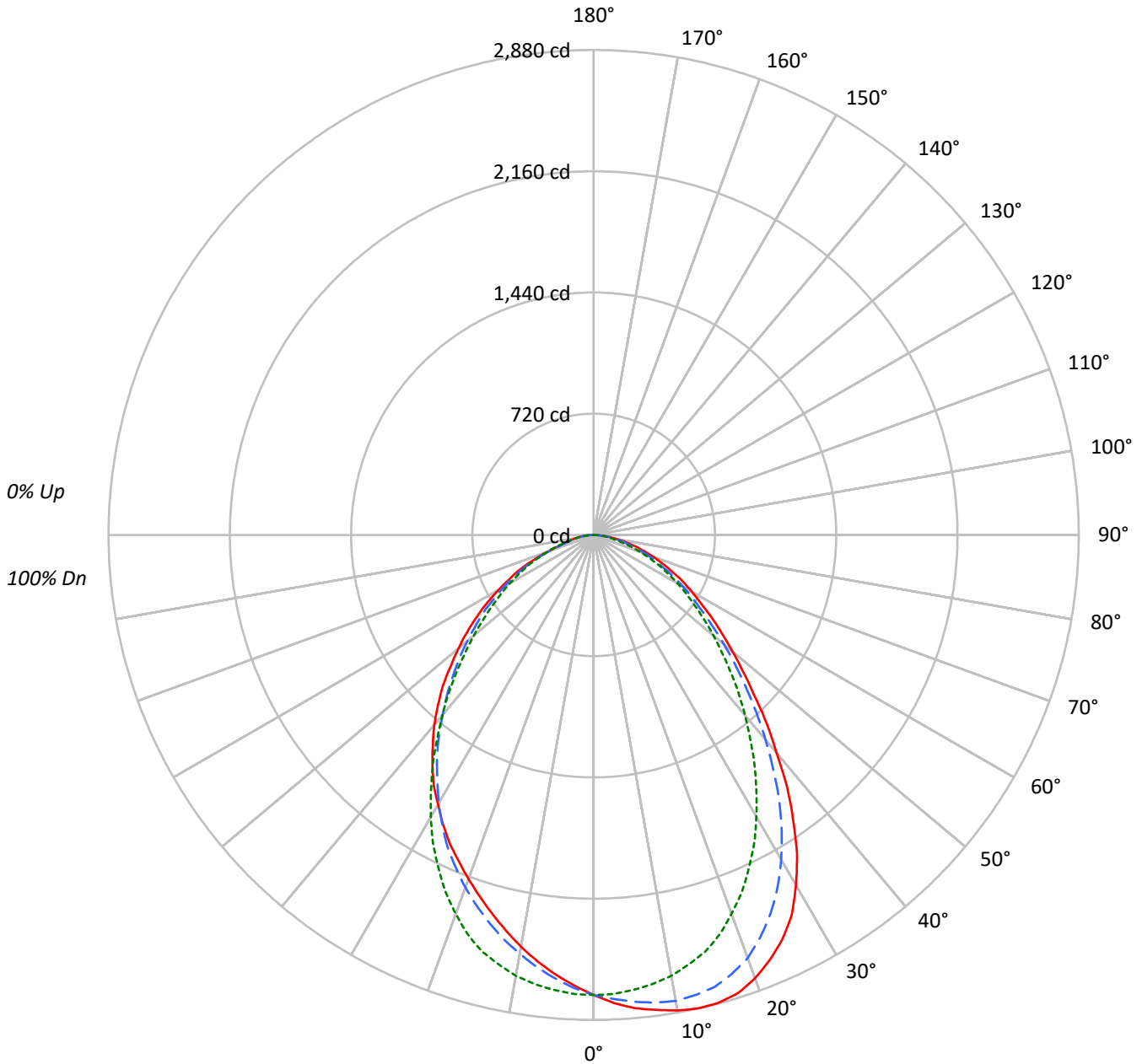
Lumens per Lamp: N/A  
Luminaire Lumens: 5494.8 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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°  | 84248 | 84248 | 84248 |
| 5°  | 87331 | 83966 | 81084 |
| 10° | 89800 | 83240 | 77770 |
| 15° | 91801 | 81767 | 74332 |
| 20° | 91945 | 78573 | 71318 |
| 25° | 90181 | 74207 | 68793 |
| 30° | 85531 | 68814 | 65773 |
| 35° | 77720 | 62670 | 62821 |
| 40° | 67953 | 56239 | 59206 |
| 45° | 58894 | 50094 | 55170 |
| 50° | 51571 | 44495 | 50261 |
| 55° | 45902 | 39434 | 45482 |
| 60° | 41407 | 35425 | 39970 |
| 65° | 37373 | 31149 | 34833 |
| 70° | 33584 | 26245 | 25885 |
| 75° | 29595 | 20814 | 19420 |
| 80° | 24808 | 17225 | 18610 |
| 85° | 19212 | 15108 | 16487 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 257.7  | 4.7       |
| 10°-20°   | 725.9  | 13.2      |
| 20°-30°   | 1037.5 | 18.9      |
| 30°-40°   | 1102.4 | 20.1      |
| 40°-50°   | 949.1  | 17.3      |
| 50°-60°   | 709.6  | 12.9      |
| 60°-70°   | 452.6  | 8.2       |
| 70°-80°   | 206.0  | 3.7       |
| 80°-90°   | 54.1   | 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°    | 2021.1 | 36.8      |
| 0°-40°    | 3123.5 | 56.8      |
| 0°-60°    | 4782.2 | 87.0      |
| 0°-90°    | 5494.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5494.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2732 | 2732 | 2732 | 2732 | 2732 |      |
| 5°  | 2821 | 2782 | 2713 | 2643 | 2620 | 270  |
| 15° | 2876 | 2779 | 2561 | 2387 | 2328 | 810  |
| 25° | 2650 | 2484 | 2181 | 2049 | 2022 | 1213 |
| 35° | 2065 | 1921 | 1665 | 1622 | 1669 | 1286 |
| 45° | 1350 | 1277 | 1149 | 1180 | 1265 | 1050 |
| 55° | 854  | 784  | 734  | 796  | 846  | 768  |
| 65° | 512  | 454  | 427  | 446  | 477  | 511  |
| 75° | 248  | 213  | 175  | 159  | 163  | 264  |
| 85° | 54   | 47   | 43   | 47   | 47   | 65   |
| 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°    | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 |
| 2.5°  | 2782.5 | 2774.8 | 2778.6 | 2774.8 | 2778.6 | 2778.6 | 2770.8 | 2770.8 | 2770.8 | 2770.8 | 2759.2 |
| 5°    | 2821.3 | 2817.5 | 2817.5 | 2813.5 | 2809.6 | 2813.5 | 2809.6 | 2805.8 | 2798.1 | 2794.2 | 2782.5 |
| 7.5°  | 2844.6 | 2844.6 | 2844.6 | 2844.6 | 2840.8 | 2836.8 | 2832.9 | 2825.2 | 2817.5 | 2809.6 | 2801.9 |
| 10°   | 2867.9 | 2871.8 | 2867.9 | 2863.9 | 2860.1 | 2852.3 | 2848.5 | 2840.8 | 2829.1 | 2817.5 | 2809.6 |
| 12.5° | 2879.5 | 2879.5 | 2875.6 | 2875.6 | 2867.9 | 2863.9 | 2852.3 | 2840.8 | 2829.1 | 2817.5 | 2798.1 |
| 15°   | 2875.6 | 2875.6 | 2871.8 | 2867.9 | 2856.2 | 2852.3 | 2844.6 | 2832.9 | 2813.5 | 2798.1 | 2778.6 |
| 17.5° | 2852.3 | 2848.5 | 2840.8 | 2840.8 | 2825.2 | 2821.3 | 2813.5 | 2798.1 | 2778.6 | 2755.4 | 2732.1 |
| 20°   | 2801.9 | 2801.9 | 2798.1 | 2794.2 | 2778.6 | 2766.9 | 2759.2 | 2739.8 | 2724.2 | 2697.1 | 2673.8 |
| 22.5° | 2732.1 | 2739.8 | 2732.1 | 2724.2 | 2704.9 | 2701.1 | 2689.4 | 2666.1 | 2642.8 | 2611.8 | 2584.5 |
| 25°   | 2650.5 | 2646.7 | 2642.8 | 2635.1 | 2619.5 | 2611.8 | 2596.2 | 2572.9 | 2549.7 | 2514.7 | 2483.7 |
| 27.5° | 2545.8 | 2530.2 | 2530.2 | 2514.7 | 2503.1 | 2491.4 | 2483.7 | 2460.4 | 2429.4 | 2402.1 | 2363.4 |
| 30°   | 2402.1 | 2406.1 | 2386.7 | 2382.8 | 2363.4 | 2355.6 | 2340.1 | 2316.8 | 2289.7 | 2258.6 | 2227.6 |
| 32.5° | 2247.0 | 2235.3 | 2235.3 | 2219.7 | 2204.3 | 2192.6 | 2188.7 | 2161.6 | 2138.3 | 2107.3 | 2076.2 |
| 35°   | 2064.6 | 2064.6 | 2052.9 | 2049.0 | 2033.5 | 2025.7 | 2014.2 | 1998.6 | 1971.4 | 1944.3 | 1920.9 |
| 37.5° | 1886.0 | 1878.3 | 1874.5 | 1866.6 | 1855.0 | 1843.3 | 1843.3 | 1816.2 | 1812.3 | 1781.2 | 1750.2 |
| 40°   | 1688.1 | 1695.9 | 1688.1 | 1676.5 | 1672.6 | 1664.8 | 1660.9 | 1645.5 | 1633.8 | 1606.6 | 1587.2 |
| 42.5° | 1521.2 | 1513.5 | 1513.5 | 1509.6 | 1494.1 | 1494.1 | 1486.4 | 1478.5 | 1459.1 | 1451.4 | 1428.1 |
| 45°   | 1350.5 | 1358.3 | 1346.7 | 1350.5 | 1335.0 | 1335.0 | 1335.0 | 1319.4 | 1304.0 | 1292.3 | 1276.7 |
| 47.5° | 1203.0 | 1207.0 | 1207.0 | 1195.3 | 1191.4 | 1191.4 | 1183.6 | 1175.9 | 1164.3 | 1148.7 | 1137.0 |
| 50°   | 1075.0 | 1078.9 | 1071.1 | 1067.2 | 1059.4 | 1055.6 | 1055.6 | 1040.0 | 1032.3 | 1016.7 | 1009.0 |
| 52.5° | 958.6  | 958.6  | 954.6  | 954.6  | 943.0  | 943.0  | 935.3  | 923.6  | 915.9  | 908.0  | 888.7  |
| 55°   | 853.8  | 853.8  | 849.9  | 846.0  | 846.0  | 834.3  | 830.5  | 818.9  | 811.0  | 795.6  | 783.9  |
| 57.5° | 752.9  | 756.8  | 752.9  | 749.0  | 745.1  | 741.2  | 733.5  | 721.8  | 714.1  | 702.5  | 694.6  |
| 60°   | 671.4  | 671.4  | 667.5  | 663.6  | 655.9  | 651.9  | 648.1  | 640.3  | 628.6  | 620.9  | 609.2  |
| 62.5° | 593.8  | 589.9  | 585.9  | 582.1  | 574.4  | 574.4  | 566.6  | 558.8  | 547.2  | 539.4  | 531.7  |
| 65°   | 512.2  | 512.2  | 508.4  | 508.4  | 504.5  | 496.8  | 492.8  | 488.9  | 473.5  | 469.5  | 454.1  |
| 67.5° | 438.5  | 442.4  | 434.7  | 434.7  | 426.9  | 426.9  | 423.0  | 411.4  | 407.5  | 399.7  | 392.0  |
| 70°   | 372.5  | 372.5  | 372.5  | 368.7  | 360.9  | 357.1  | 353.1  | 345.4  | 341.5  | 333.8  | 326.0  |
| 72.5° | 306.5  | 306.5  | 302.7  | 302.7  | 298.8  | 295.0  | 291.1  | 283.3  | 283.3  | 275.5  | 267.8  |
| 75°   | 248.4  | 248.4  | 244.5  | 240.7  | 236.7  | 236.7  | 232.8  | 229.0  | 221.2  | 217.3  | 213.4  |
| 77.5° | 190.1  | 190.1  | 190.1  | 186.3  | 182.4  | 182.4  | 182.4  | 174.7  | 166.8  | 166.8  | 163.0  |
| 80°   | 139.7  | 139.7  | 135.8  | 135.8  | 132.0  | 132.0  | 132.0  | 128.1  | 124.1  | 120.3  | 116.4  |
| 82.5° | 93.1   | 93.1   | 93.1   | 93.1   | 89.3   | 89.3   | 89.3   | 85.4   | 81.4   | 81.4   | 81.4   |
| 85°   | 54.3   | 54.3   | 54.3   | 54.3   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   | 46.6   | 46.6   |
| 87.5° | 23.3   | 19.4   | 23.3   | 19.4   | 23.3   | 19.4   | 23.3   | 19.4   | 19.4   | 19.4   | 19.4   |
| 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°    | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 |
| 2.5°  | 2763.1 | 2759.2 | 2755.4 | 2751.5 | 2751.5 | 2747.5 | 2739.8 | 2735.9 | 2732.1 | 2728.2 | 2728.2 |
| 5°    | 2778.6 | 2774.8 | 2766.9 | 2759.2 | 2755.4 | 2747.5 | 2739.8 | 2732.1 | 2724.2 | 2712.6 | 2708.8 |
| 7.5°  | 2790.2 | 2778.6 | 2770.8 | 2755.4 | 2751.5 | 2743.7 | 2732.1 | 2720.4 | 2704.9 | 2689.4 | 2677.7 |
| 10°   | 2790.2 | 2774.8 | 2763.1 | 2743.7 | 2735.9 | 2728.2 | 2712.6 | 2693.2 | 2673.8 | 2658.4 | 2638.9 |
| 12.5° | 2782.5 | 2763.1 | 2743.7 | 2724.2 | 2712.6 | 2701.1 | 2677.7 | 2658.4 | 2635.1 | 2611.8 | 2596.2 |
| 15°   | 2755.4 | 2732.1 | 2708.8 | 2685.5 | 2673.8 | 2658.4 | 2635.1 | 2607.8 | 2584.5 | 2561.3 | 2534.1 |
| 17.5° | 2704.9 | 2681.6 | 2654.4 | 2627.2 | 2611.8 | 2600.1 | 2565.1 | 2545.8 | 2510.8 | 2487.5 | 2464.3 |
| 20°   | 2638.9 | 2611.8 | 2576.8 | 2549.7 | 2530.2 | 2518.7 | 2491.4 | 2456.5 | 2429.4 | 2394.4 | 2371.1 |
| 22.5° | 2553.5 | 2518.7 | 2483.7 | 2456.5 | 2437.1 | 2421.6 | 2386.7 | 2351.7 | 2328.4 | 2297.4 | 2270.3 |
| 25°   | 2452.7 | 2417.7 | 2382.8 | 2344.0 | 2324.6 | 2309.0 | 2278.0 | 2247.0 | 2215.9 | 2181.0 | 2157.7 |
| 27.5° | 2332.3 | 2293.5 | 2262.4 | 2227.6 | 2208.1 | 2184.9 | 2149.9 | 2118.9 | 2087.9 | 2064.6 | 2033.5 |
| 30°   | 2200.4 | 2157.7 | 2126.6 | 2091.7 | 2072.3 | 2052.9 | 2018.0 | 1986.9 | 1959.8 | 1932.6 | 1917.1 |
| 32.5° | 2041.3 | 2010.2 | 1979.2 | 1944.3 | 1928.7 | 1917.1 | 1882.2 | 1851.2 | 1820.1 | 1796.8 | 1785.2 |
| 35°   | 1889.9 | 1855.0 | 1827.8 | 1796.8 | 1777.4 | 1765.8 | 1734.8 | 1707.5 | 1691.9 | 1664.8 | 1649.3 |
| 37.5° | 1730.8 | 1703.6 | 1672.6 | 1641.5 | 1629.9 | 1618.2 | 1595.0 | 1567.8 | 1544.5 | 1525.1 | 1517.4 |
| 40°   | 1563.9 | 1540.7 | 1513.5 | 1494.1 | 1482.4 | 1470.8 | 1451.4 | 1432.0 | 1416.5 | 1397.1 | 1389.3 |
| 42.5° | 1404.8 | 1389.3 | 1366.0 | 1342.7 | 1331.1 | 1327.2 | 1304.0 | 1288.4 | 1280.7 | 1272.9 | 1265.1 |
| 45°   | 1261.3 | 1238.0 | 1222.4 | 1207.0 | 1195.3 | 1187.5 | 1175.9 | 1164.3 | 1156.4 | 1148.7 | 1141.0 |
| 47.5° | 1121.6 | 1102.1 | 1086.6 | 1075.0 | 1063.3 | 1059.4 | 1051.7 | 1040.0 | 1032.3 | 1032.3 | 1032.3 |
| 50°   | 993.5  | 978.0  | 962.4  | 954.6  | 950.7  | 943.0  | 935.3  | 931.3  | 927.5  | 927.5  | 927.5  |
| 52.5° | 880.9  | 865.4  | 853.8  | 846.0  | 846.0  | 838.2  | 830.5  | 826.6  | 826.6  | 826.6  | 826.6  |
| 55°   | 776.2  | 764.5  | 756.8  | 749.0  | 741.2  | 737.3  | 737.3  | 737.3  | 733.5  | 733.5  | 737.3  |
| 57.5° | 683.0  | 675.2  | 663.6  | 655.9  | 651.9  | 651.9  | 648.1  | 644.2  | 648.1  | 651.9  | 655.9  |
| 60°   | 597.6  | 589.9  | 585.9  | 574.4  | 574.4  | 574.4  | 570.5  | 570.5  | 570.5  | 574.4  | 578.2  |
| 62.5° | 520.1  | 516.1  | 508.4  | 504.5  | 500.6  | 500.6  | 496.8  | 496.8  | 496.8  | 496.8  | 500.6  |
| 65°   | 450.2  | 442.4  | 434.7  | 434.7  | 434.7  | 430.8  | 430.8  | 423.0  | 426.9  | 426.9  | 423.0  |
| 67.5° | 384.2  | 376.4  | 372.5  | 368.7  | 364.8  | 364.8  | 360.9  | 357.1  | 353.1  | 353.1  | 353.1  |
| 70°   | 322.1  | 314.4  | 314.4  | 306.5  | 306.5  | 302.7  | 298.8  | 298.8  | 295.0  | 291.1  | 287.1  |
| 72.5° | 260.0  | 256.1  | 252.3  | 248.4  | 248.4  | 248.4  | 244.5  | 240.7  | 236.7  | 232.8  | 225.1  |
| 75°   | 205.7  | 205.7  | 198.0  | 194.0  | 194.0  | 190.1  | 186.3  | 182.4  | 178.5  | 174.7  | 170.7  |
| 77.5° | 159.1  | 155.3  | 147.4  | 143.6  | 143.6  | 143.6  | 139.7  | 135.8  | 132.0  | 128.1  | 124.1  |
| 80°   | 116.4  | 112.6  | 108.7  | 104.8  | 104.8  | 104.8  | 100.9  | 100.9  | 97.0   | 97.0   | 97.0   |
| 82.5° | 77.6   | 77.6   | 73.7   | 73.7   | 73.7   | 73.7   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   |
| 85°   | 46.6   | 46.6   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   |
| 87.5° | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 |
| 2.5°  | 2720.4 | 2720.4 | 2712.6 | 2708.8 | 2704.9 | 2708.8 | 2701.1 | 2697.1 | 2693.2 | 2693.2 | 2689.4 |
| 5°    | 2697.1 | 2693.2 | 2677.7 | 2673.8 | 2669.9 | 2666.1 | 2658.4 | 2650.5 | 2642.8 | 2638.9 | 2635.1 |
| 7.5°  | 2666.1 | 2654.4 | 2638.9 | 2635.1 | 2631.1 | 2619.5 | 2607.8 | 2600.1 | 2588.5 | 2584.5 | 2576.8 |
| 10°   | 2623.4 | 2607.8 | 2596.2 | 2584.5 | 2576.8 | 2565.1 | 2553.5 | 2541.8 | 2526.4 | 2522.5 | 2510.8 |
| 12.5° | 2572.9 | 2553.5 | 2530.2 | 2526.4 | 2514.7 | 2499.2 | 2483.7 | 2472.0 | 2460.4 | 2452.7 | 2441.0 |
| 15°   | 2510.8 | 2491.4 | 2468.1 | 2456.5 | 2444.8 | 2433.2 | 2413.8 | 2398.3 | 2386.7 | 2375.0 | 2363.4 |
| 17.5° | 2437.1 | 2413.8 | 2394.4 | 2382.8 | 2375.0 | 2355.6 | 2340.1 | 2320.7 | 2309.0 | 2297.4 | 2285.7 |
| 20°   | 2347.8 | 2328.4 | 2301.3 | 2289.7 | 2285.7 | 2270.3 | 2250.8 | 2243.0 | 2227.6 | 2215.9 | 2208.1 |
| 22.5° | 2247.0 | 2227.6 | 2204.3 | 2196.6 | 2181.0 | 2173.3 | 2153.9 | 2146.0 | 2138.3 | 2126.6 | 2122.7 |
| 25°   | 2134.4 | 2115.0 | 2095.6 | 2091.7 | 2080.0 | 2072.3 | 2060.7 | 2049.0 | 2049.0 | 2037.4 | 2037.4 |
| 27.5° | 2018.0 | 1998.6 | 1983.0 | 1975.3 | 1971.4 | 1963.6 | 1952.0 | 1948.2 | 1944.3 | 1940.3 | 1940.3 |
| 30°   | 1893.8 | 1870.5 | 1862.8 | 1858.9 | 1855.0 | 1847.2 | 1843.3 | 1835.6 | 1839.5 | 1843.3 | 1839.5 |
| 32.5° | 1761.9 | 1754.1 | 1738.6 | 1730.8 | 1734.8 | 1730.8 | 1723.1 | 1730.8 | 1726.9 | 1734.8 | 1738.6 |
| 35°   | 1633.8 | 1626.1 | 1618.2 | 1618.2 | 1610.5 | 1610.5 | 1610.5 | 1614.4 | 1622.2 | 1626.1 | 1633.8 |
| 37.5° | 1509.6 | 1498.0 | 1494.1 | 1490.2 | 1494.1 | 1494.1 | 1494.1 | 1501.8 | 1509.6 | 1517.4 | 1529.1 |
| 40°   | 1377.7 | 1369.8 | 1369.8 | 1369.8 | 1369.8 | 1381.5 | 1377.7 | 1385.4 | 1393.2 | 1404.8 | 1416.5 |
| 42.5° | 1253.4 | 1253.4 | 1257.4 | 1257.4 | 1257.4 | 1257.4 | 1265.1 | 1276.7 | 1288.4 | 1300.1 | 1311.7 |
| 45°   | 1137.0 | 1137.0 | 1137.0 | 1144.8 | 1144.8 | 1148.7 | 1164.3 | 1172.0 | 1179.7 | 1191.4 | 1203.0 |
| 47.5° | 1028.4 | 1028.4 | 1032.3 | 1036.2 | 1040.0 | 1047.7 | 1055.6 | 1067.2 | 1078.9 | 1086.6 | 1098.3 |
| 50°   | 927.5  | 931.3  | 939.2  | 946.9  | 946.9  | 950.7  | 962.4  | 970.2  | 978.0  | 989.6  | 993.5  |
| 52.5° | 830.5  | 838.2  | 846.0  | 849.9  | 853.8  | 861.5  | 865.4  | 877.0  | 880.9  | 892.6  | 896.5  |
| 55°   | 741.2  | 745.1  | 756.8  | 760.6  | 760.6  | 768.3  | 776.2  | 783.9  | 795.6  | 795.6  | 803.3  |
| 57.5° | 659.8  | 663.6  | 671.4  | 675.2  | 671.4  | 683.0  | 686.9  | 694.6  | 698.5  | 706.3  | 710.2  |
| 60°   | 578.2  | 585.9  | 589.9  | 589.9  | 593.8  | 597.6  | 605.4  | 605.4  | 613.2  | 620.9  | 620.9  |
| 62.5° | 500.6  | 504.5  | 508.4  | 512.2  | 516.1  | 512.2  | 523.9  | 523.9  | 531.7  | 535.5  | 543.3  |
| 65°   | 426.9  | 430.8  | 430.8  | 434.7  | 434.7  | 438.5  | 438.5  | 442.4  | 446.2  | 454.1  | 457.9  |
| 67.5° | 353.1  | 353.1  | 353.1  | 357.1  | 353.1  | 357.1  | 357.1  | 360.9  | 360.9  | 368.7  | 372.5  |
| 70°   | 287.1  | 283.3  | 279.4  | 279.4  | 279.4  | 279.4  | 275.5  | 279.4  | 279.4  | 283.3  | 283.3  |
| 72.5° | 221.2  | 217.3  | 213.4  | 209.5  | 209.5  | 205.7  | 201.8  | 205.7  | 205.7  | 209.5  | 209.5  |
| 75°   | 166.8  | 159.1  | 159.1  | 159.1  | 155.3  | 155.3  | 155.3  | 159.1  | 159.1  | 159.1  | 163.0  |
| 77.5° | 124.1  | 124.1  | 120.3  | 120.3  | 120.3  | 124.1  | 124.1  | 128.1  | 128.1  | 128.1  | 128.1  |
| 80°   | 93.1   | 97.0   | 97.0   | 97.0   | 97.0   | 100.9  | 100.9  | 100.9  | 100.9  | 104.8  | 104.8  |
| 82.5° | 69.8   | 69.8   | 69.8   | 69.8   | 73.7   | 73.7   | 73.7   | 73.7   | 73.7   | 73.7   | 73.7   |
| 85°   | 42.7   | 46.6   | 46.6   | 42.7   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   |
| 87.5° | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P585288

CATALOG NUMBER: HCC8S80D010MW-HM86080930-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 | 2732.1 |
| 2.5°  | 2685.5 | 2685.5 | 2685.5 | 2685.5 | 2681.6 | 2681.6 | 2681.6 | 2677.7 |
| 5°    | 2627.2 | 2627.2 | 2627.2 | 2619.5 | 2623.4 | 2623.4 | 2615.7 | 2619.5 |
| 7.5°  | 2569.1 | 2565.1 | 2561.3 | 2561.3 | 2557.4 | 2553.5 | 2549.7 | 2553.5 |
| 10°   | 2503.1 | 2491.4 | 2491.4 | 2487.5 | 2487.5 | 2479.8 | 2479.8 | 2483.7 |
| 12.5° | 2429.4 | 2421.6 | 2421.6 | 2417.7 | 2413.8 | 2410.0 | 2406.1 | 2406.1 |
| 15°   | 2355.6 | 2347.8 | 2344.0 | 2340.1 | 2336.3 | 2328.4 | 2332.3 | 2328.4 |
| 17.5° | 2281.9 | 2270.3 | 2270.3 | 2266.4 | 2262.4 | 2254.7 | 2254.7 | 2250.8 |
| 20°   | 2196.6 | 2192.6 | 2184.9 | 2188.7 | 2184.9 | 2177.1 | 2173.3 | 2173.3 |
| 22.5° | 2111.1 | 2111.1 | 2107.3 | 2107.3 | 2103.3 | 2099.5 | 2095.6 | 2095.6 |
| 25°   | 2029.6 | 2025.7 | 2029.6 | 2029.6 | 2018.0 | 2018.0 | 2018.0 | 2021.9 |
| 27.5° | 1936.5 | 1940.3 | 1936.5 | 1936.5 | 1936.5 | 1936.5 | 1940.3 | 1936.5 |
| 30°   | 1843.3 | 1843.3 | 1843.3 | 1847.2 | 1855.0 | 1851.2 | 1851.2 | 1847.2 |
| 32.5° | 1742.5 | 1746.3 | 1746.3 | 1750.2 | 1754.1 | 1761.9 | 1761.9 | 1765.8 |
| 35°   | 1641.5 | 1649.3 | 1653.2 | 1649.3 | 1660.9 | 1660.9 | 1668.8 | 1668.8 |
| 37.5° | 1536.8 | 1540.7 | 1548.4 | 1552.2 | 1560.1 | 1563.9 | 1567.8 | 1567.8 |
| 40°   | 1424.2 | 1439.8 | 1443.7 | 1447.5 | 1459.1 | 1459.1 | 1463.1 | 1470.8 |
| 42.5° | 1319.4 | 1335.0 | 1338.8 | 1342.7 | 1350.5 | 1362.1 | 1358.3 | 1366.0 |
| 45°   | 1218.6 | 1230.1 | 1234.1 | 1238.0 | 1249.6 | 1253.4 | 1253.4 | 1265.1 |
| 47.5° | 1109.9 | 1117.7 | 1121.6 | 1129.3 | 1137.0 | 1144.8 | 1152.6 | 1148.7 |
| 50°   | 1001.3 | 1012.9 | 1020.6 | 1024.6 | 1036.2 | 1040.0 | 1043.9 | 1047.7 |
| 52.5° | 904.2  | 912.0  | 915.9  | 919.7  | 931.3  | 935.3  | 939.2  | 946.9  |
| 55°   | 811.0  | 814.9  | 822.7  | 818.9  | 830.5  | 834.3  | 838.2  | 846.0  |
| 57.5° | 717.9  | 721.8  | 725.6  | 725.6  | 733.5  | 741.2  | 745.1  | 749.0  |
| 60°   | 628.6  | 636.5  | 640.3  | 640.3  | 640.3  | 648.1  | 648.1  | 648.1  |
| 62.5° | 547.2  | 547.2  | 551.1  | 551.1  | 558.8  | 558.8  | 558.8  | 558.8  |
| 65°   | 461.8  | 465.7  | 469.5  | 469.5  | 477.4  | 473.5  | 481.2  | 477.4  |
| 67.5° | 372.5  | 372.5  | 380.4  | 380.4  | 376.4  | 380.4  | 380.4  | 380.4  |
| 70°   | 283.3  | 283.3  | 287.1  | 287.1  | 287.1  | 287.1  | 287.1  | 287.1  |
| 72.5° | 209.5  | 209.5  | 209.5  | 213.4  | 209.5  | 209.5  | 213.4  | 209.5  |
| 75°   | 163.0  | 163.0  | 163.0  | 163.0  | 163.0  | 163.0  | 163.0  | 163.0  |
| 77.5° | 128.1  | 128.1  | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  |
| 80°   | 104.8  | 104.8  | 104.8  | 104.8  | 108.7  | 104.8  | 104.8  | 104.8  |
| 82.5° | 77.6   | 73.7   | 77.6   | 73.7   | 77.6   | 77.6   | 77.6   | 77.6   |
| 85°   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   |
| 87.5° | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   |
| 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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Scaled Data Report



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

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(END OF REPORT)