

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: P593885

Luminaire Tested: **HCC8W60D010BZ-HM86080950-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W60D010BZ-HM86080950-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

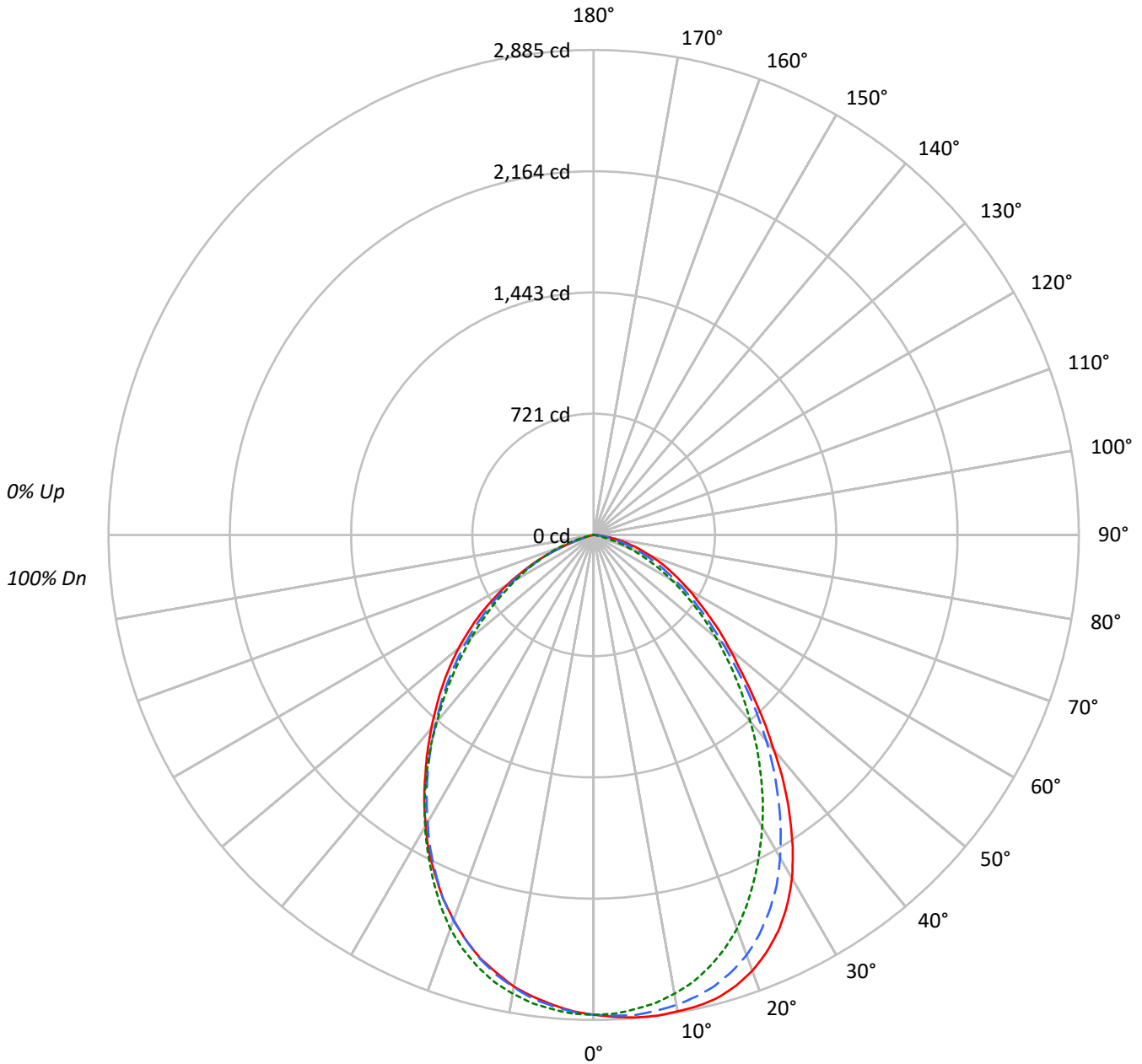
Lumens per Lamp: N/A  
Luminaire Lumens: 5425.7 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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 | 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  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |   |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 88032 | 88032 | 88032 |
| 5°  | 89191 | 87659 | 86832 |
| 10° | 90103 | 86762 | 85454 |
| 15° | 91016 | 84931 | 83226 |
| 20° | 90554 | 81799 | 79922 |
| 25° | 88442 | 76901 | 75867 |
| 30° | 84007 | 71384 | 71114 |
| 35° | 76474 | 65140 | 65715 |
| 40° | 67047 | 58300 | 60449 |
| 45° | 57843 | 51860 | 55514 |
| 50° | 50650 | 45526 | 50285 |
| 55° | 44875 | 39138 | 44262 |
| 60° | 40433 | 32909 | 36671 |
| 65° | 36431 | 26421 | 28092 |
| 70° | 31952 | 19249 | 15462 |
| 75° | 27248 | 9996  | 4087  |
| 80° | 20972 | 2699  | 675   |
| 85° | 13480 | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 269.3  | 5.0       |
| 10°-20°   | 757.2  | 14.0      |
| 20°-30°   | 1074.7 | 19.8      |
| 30°-40°   | 1131.3 | 20.9      |
| 40°-50°   | 962.4  | 17.7      |
| 50°-60°   | 695.5  | 12.8      |
| 60°-70°   | 395.6  | 7.3       |
| 70°-80°   | 124.6  | 2.3       |
| 80°-90°   | 15.1   | 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°    | 2101.2 | 38.7      |
| 0°-40°    | 3232.5 | 59.6      |
| 0°-60°    | 4890.4 | 90.1      |
| 0°-90°    | 5425.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5425.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2855 | 2855 | 2855 | 2855 | 2855 |      |
| 5°  | 2881 | 2866 | 2832 | 2813 | 2805 | 275  |
| 15° | 2851 | 2778 | 2660 | 2611 | 2607 | 803  |
| 25° | 2599 | 2470 | 2260 | 2222 | 2230 | 1191 |
| 35° | 2032 | 1913 | 1730 | 1719 | 1746 | 1264 |
| 45° | 1326 | 1277 | 1189 | 1220 | 1273 | 1031 |
| 55° | 835  | 774  | 728  | 770  | 823  | 753  |
| 65° | 499  | 431  | 362  | 358  | 385  | 495  |
| 75° | 229  | 175  | 84   | 38   | 34   | 246  |
| 85° | 38   | 23   | 0    | 0    | 0    | 49   |
| 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°    | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 |
| 2.5°  | 2870.0 | 2873.8 | 2866.2 | 2866.2 | 2873.8 | 2866.2 | 2870.0 | 2870.0 | 2866.2 | 2866.2 | 2862.4 |
| 5°    | 2881.4 | 2877.6 | 2877.6 | 2877.6 | 2881.4 | 2873.8 | 2870.0 | 2873.8 | 2866.2 | 2866.2 | 2866.2 |
| 7.5°  | 2885.2 | 2885.2 | 2881.4 | 2877.6 | 2877.6 | 2877.6 | 2873.8 | 2870.0 | 2866.2 | 2858.6 | 2854.8 |
| 10°   | 2877.6 | 2877.6 | 2881.4 | 2873.8 | 2873.8 | 2866.2 | 2866.2 | 2858.6 | 2858.6 | 2851.0 | 2839.6 |
| 12.5° | 2870.0 | 2866.2 | 2866.2 | 2858.6 | 2858.6 | 2851.0 | 2851.0 | 2839.6 | 2835.7 | 2824.3 | 2812.9 |
| 15°   | 2851.0 | 2847.2 | 2839.6 | 2835.7 | 2831.9 | 2828.1 | 2820.5 | 2816.7 | 2805.2 | 2790.0 | 2778.5 |
| 17.5° | 2812.9 | 2809.1 | 2805.2 | 2797.6 | 2790.0 | 2786.2 | 2782.3 | 2770.9 | 2755.7 | 2744.3 | 2725.3 |
| 20°   | 2759.5 | 2755.7 | 2755.7 | 2744.3 | 2740.5 | 2729.1 | 2725.3 | 2709.9 | 2698.5 | 2675.7 | 2660.4 |
| 22.5° | 2687.1 | 2690.9 | 2683.3 | 2675.7 | 2668.0 | 2656.6 | 2649.0 | 2633.7 | 2614.6 | 2591.8 | 2572.8 |
| 25°   | 2599.4 | 2603.2 | 2595.6 | 2588.0 | 2576.6 | 2569.0 | 2561.4 | 2538.4 | 2519.4 | 2492.7 | 2469.8 |
| 27.5° | 2488.9 | 2488.9 | 2488.9 | 2481.3 | 2462.2 | 2458.4 | 2450.7 | 2427.9 | 2401.3 | 2378.3 | 2355.5 |
| 30°   | 2359.3 | 2355.5 | 2355.5 | 2344.1 | 2336.4 | 2321.2 | 2309.8 | 2290.7 | 2271.6 | 2245.0 | 2218.2 |
| 32.5° | 2203.0 | 2206.8 | 2195.4 | 2187.8 | 2176.4 | 2176.4 | 2161.1 | 2145.9 | 2122.9 | 2096.3 | 2069.7 |
| 35°   | 2031.5 | 2035.3 | 2027.7 | 2023.9 | 2004.8 | 2001.0 | 1997.2 | 1978.2 | 1962.9 | 1943.8 | 1913.4 |
| 37.5° | 1856.2 | 1852.4 | 1848.6 | 1848.6 | 1837.1 | 1829.5 | 1821.9 | 1810.5 | 1787.5 | 1772.3 | 1757.1 |
| 40°   | 1665.6 | 1665.6 | 1665.6 | 1661.8 | 1658.0 | 1650.4 | 1646.6 | 1639.0 | 1623.6 | 1608.4 | 1597.0 |
| 42.5° | 1494.1 | 1494.1 | 1490.3 | 1486.5 | 1478.9 | 1482.7 | 1475.1 | 1467.5 | 1452.1 | 1440.7 | 1433.1 |
| 45°   | 1326.4 | 1326.4 | 1326.4 | 1330.2 | 1322.6 | 1311.2 | 1311.2 | 1303.6 | 1295.8 | 1288.2 | 1276.8 |
| 47.5° | 1177.7 | 1189.2 | 1181.5 | 1177.7 | 1181.5 | 1166.3 | 1166.3 | 1158.7 | 1151.1 | 1143.5 | 1128.1 |
| 50°   | 1055.8 | 1055.8 | 1055.8 | 1048.2 | 1044.3 | 1044.3 | 1032.9 | 1025.3 | 1021.5 | 1013.8 | 998.6  |
| 52.5° | 945.2  | 937.6  | 937.6  | 933.8  | 930.0  | 922.4  | 922.4  | 914.8  | 899.5  | 891.9  | 880.5  |
| 55°   | 834.7  | 834.7  | 830.9  | 827.1  | 823.3  | 819.5  | 815.7  | 804.3  | 796.7  | 785.1  | 773.7  |
| 57.5° | 735.6  | 743.3  | 739.4  | 731.8  | 724.2  | 724.2  | 716.6  | 708.9  | 697.5  | 686.0  | 674.6  |
| 60°   | 655.6  | 651.8  | 651.8  | 648.0  | 640.4  | 636.6  | 632.8  | 621.2  | 609.8  | 598.4  | 587.0  |
| 62.5° | 571.7  | 571.7  | 571.7  | 564.1  | 556.5  | 552.7  | 548.9  | 541.2  | 526.0  | 514.5  | 506.9  |
| 65°   | 499.3  | 495.5  | 491.7  | 487.9  | 484.1  | 476.5  | 472.7  | 465.1  | 453.5  | 442.1  | 430.7  |
| 67.5° | 426.9  | 423.1  | 423.1  | 419.3  | 407.8  | 404.0  | 404.0  | 392.6  | 381.2  | 369.7  | 358.2  |
| 70°   | 354.4  | 354.4  | 354.4  | 346.8  | 343.0  | 339.2  | 335.4  | 327.8  | 316.4  | 305.0  | 293.5  |
| 72.5° | 293.5  | 289.6  | 289.6  | 285.8  | 274.4  | 270.6  | 266.8  | 259.2  | 247.8  | 240.1  | 232.5  |
| 75°   | 228.7  | 228.7  | 224.9  | 221.1  | 217.3  | 213.5  | 209.7  | 202.0  | 190.5  | 179.1  | 175.3  |
| 77.5° | 175.3  | 171.5  | 171.5  | 167.7  | 160.1  | 156.3  | 156.3  | 148.7  | 137.3  | 129.6  | 121.9  |
| 80°   | 118.1  | 121.9  | 118.1  | 114.3  | 110.5  | 106.7  | 102.9  | 99.1   | 91.5   | 83.9   | 76.2   |
| 82.5° | 72.4   | 76.2   | 72.4   | 72.4   | 68.6   | 64.8   | 64.8   | 57.2   | 53.4   | 49.6   | 45.8   |
| 85°   | 38.1   | 38.1   | 38.1   | 38.1   | 34.3   | 34.3   | 34.3   | 30.4   | 26.6   | 22.8   | 22.8   |
| 87.5° | 11.4   | 15.2   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 7.6    | 7.6    | 7.6    |
| 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°    | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 |
| 2.5°  | 2866.2 | 2862.4 | 2858.6 | 2858.6 | 2858.6 | 2858.6 | 2858.6 | 2854.8 | 2851.0 | 2851.0 | 2851.0 |
| 5°    | 2858.6 | 2858.6 | 2858.6 | 2854.8 | 2851.0 | 2851.0 | 2843.4 | 2839.6 | 2835.7 | 2831.9 | 2828.1 |
| 7.5°  | 2851.0 | 2843.4 | 2839.6 | 2835.7 | 2831.9 | 2831.9 | 2824.3 | 2816.7 | 2816.7 | 2809.1 | 2801.4 |
| 10°   | 2828.1 | 2824.3 | 2816.7 | 2809.1 | 2805.2 | 2801.4 | 2793.8 | 2782.3 | 2778.5 | 2770.9 | 2763.3 |
| 12.5° | 2801.4 | 2793.8 | 2786.2 | 2770.9 | 2767.1 | 2763.3 | 2748.1 | 2736.7 | 2729.1 | 2725.3 | 2706.1 |
| 15°   | 2767.1 | 2751.9 | 2740.5 | 2721.3 | 2717.5 | 2709.9 | 2698.5 | 2687.1 | 2671.9 | 2660.4 | 2652.8 |
| 17.5° | 2706.1 | 2690.9 | 2671.9 | 2652.8 | 2645.2 | 2645.2 | 2626.1 | 2610.8 | 2591.8 | 2584.2 | 2569.0 |
| 20°   | 2633.7 | 2614.6 | 2599.4 | 2576.6 | 2565.2 | 2553.6 | 2542.2 | 2519.4 | 2504.1 | 2492.7 | 2473.7 |
| 22.5° | 2549.8 | 2523.2 | 2504.1 | 2481.3 | 2462.2 | 2450.7 | 2431.7 | 2412.7 | 2393.7 | 2382.1 | 2366.9 |
| 25°   | 2443.1 | 2420.3 | 2389.8 | 2366.9 | 2355.5 | 2340.2 | 2317.4 | 2298.3 | 2279.2 | 2260.2 | 2252.6 |
| 27.5° | 2325.0 | 2294.5 | 2267.8 | 2241.2 | 2229.8 | 2218.2 | 2191.6 | 2168.7 | 2153.5 | 2134.4 | 2126.8 |
| 30°   | 2195.4 | 2164.9 | 2134.4 | 2111.5 | 2100.1 | 2081.1 | 2065.9 | 2039.1 | 2020.1 | 2004.8 | 1985.8 |
| 32.5° | 2046.7 | 2023.9 | 1997.2 | 1962.9 | 1955.2 | 1940.0 | 1917.2 | 1905.8 | 1882.8 | 1871.4 | 1856.2 |
| 35°   | 1886.7 | 1871.4 | 1844.7 | 1818.1 | 1806.7 | 1799.0 | 1779.9 | 1757.1 | 1741.9 | 1730.4 | 1722.8 |
| 37.5° | 1734.3 | 1715.1 | 1688.5 | 1669.4 | 1661.8 | 1650.4 | 1627.4 | 1616.0 | 1600.8 | 1593.2 | 1578.0 |
| 40°   | 1570.4 | 1551.3 | 1532.2 | 1520.8 | 1509.3 | 1501.7 | 1486.5 | 1475.1 | 1459.7 | 1448.3 | 1444.5 |
| 42.5° | 1410.3 | 1398.8 | 1383.6 | 1368.3 | 1364.5 | 1353.1 | 1345.4 | 1334.0 | 1322.6 | 1318.8 | 1307.4 |
| 45°   | 1265.4 | 1254.0 | 1238.8 | 1223.5 | 1219.7 | 1212.0 | 1208.2 | 1196.8 | 1189.2 | 1189.2 | 1189.2 |
| 47.5° | 1120.5 | 1109.1 | 1093.9 | 1086.3 | 1090.1 | 1074.9 | 1074.9 | 1071.0 | 1063.4 | 1063.4 | 1067.2 |
| 50°   | 991.0  | 975.8  | 972.0  | 964.4  | 956.6  | 949.0  | 952.8  | 941.4  | 941.4  | 949.0  | 945.2  |
| 52.5° | 869.0  | 853.7  | 849.9  | 842.3  | 838.5  | 838.5  | 834.7  | 834.7  | 830.9  | 834.7  | 834.7  |
| 55°   | 758.5  | 747.1  | 739.4  | 731.8  | 728.0  | 728.0  | 728.0  | 724.2  | 720.4  | 728.0  | 731.8  |
| 57.5° | 659.4  | 655.6  | 648.0  | 636.6  | 632.8  | 628.9  | 625.0  | 625.0  | 625.0  | 625.0  | 628.9  |
| 60°   | 571.7  | 564.1  | 556.5  | 545.1  | 545.1  | 541.2  | 537.4  | 533.6  | 533.6  | 533.6  | 533.6  |
| 62.5° | 495.5  | 484.1  | 472.7  | 465.1  | 461.2  | 457.3  | 453.5  | 445.9  | 445.9  | 445.9  | 445.9  |
| 65°   | 419.3  | 407.8  | 400.2  | 392.6  | 385.0  | 385.0  | 377.4  | 373.5  | 365.9  | 362.1  | 354.4  |
| 67.5° | 346.8  | 339.2  | 331.6  | 320.2  | 316.4  | 312.6  | 305.0  | 301.2  | 289.6  | 285.8  | 282.0  |
| 70°   | 282.0  | 270.6  | 263.0  | 255.4  | 251.6  | 243.9  | 236.3  | 228.7  | 221.1  | 213.5  | 205.8  |
| 72.5° | 221.1  | 209.7  | 202.0  | 194.3  | 186.7  | 186.7  | 175.3  | 167.7  | 156.3  | 148.7  | 137.3  |
| 75°   | 163.9  | 152.5  | 144.9  | 133.4  | 129.6  | 125.8  | 114.3  | 106.7  | 95.3   | 83.9   | 76.2   |
| 77.5° | 110.5  | 102.9  | 95.3   | 83.9   | 76.2   | 76.2   | 64.8   | 57.2   | 49.6   | 38.1   | 34.3   |
| 80°   | 68.6   | 61.0   | 53.4   | 45.8   | 45.8   | 38.1   | 34.3   | 26.6   | 19.0   | 15.2   | 11.4   |
| 82.5° | 38.1   | 34.3   | 30.4   | 22.8   | 22.8   | 19.0   | 15.2   | 11.4   | 7.6    | 3.8    | 3.8    |
| 85°   | 19.0   | 15.2   | 11.4   | 11.4   | 7.6    | 7.6    | 7.6    | 3.8    | 3.8    | 0.0    | 0.0    |
| 87.5° | 7.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 |
| 2.5°  | 2847.2 | 2847.2 | 2843.4 | 2843.4 | 2843.4 | 2839.6 | 2843.4 | 2839.6 | 2839.6 | 2839.6 | 2843.4 |
| 5°    | 2831.9 | 2824.3 | 2824.3 | 2820.5 | 2820.5 | 2816.7 | 2820.5 | 2816.7 | 2812.9 | 2809.1 | 2812.9 |
| 7.5°  | 2801.4 | 2793.8 | 2790.0 | 2786.2 | 2786.2 | 2786.2 | 2782.3 | 2778.5 | 2782.3 | 2770.9 | 2778.5 |
| 10°   | 2759.5 | 2755.7 | 2748.1 | 2744.3 | 2740.5 | 2744.3 | 2740.5 | 2732.9 | 2732.9 | 2732.9 | 2729.1 |
| 12.5° | 2706.1 | 2698.5 | 2694.7 | 2690.9 | 2683.3 | 2683.3 | 2687.1 | 2679.5 | 2679.5 | 2671.9 | 2671.9 |
| 15°   | 2641.4 | 2633.7 | 2626.1 | 2626.1 | 2618.4 | 2618.4 | 2614.6 | 2614.6 | 2610.8 | 2607.0 | 2607.0 |
| 17.5° | 2561.4 | 2549.8 | 2542.2 | 2546.0 | 2542.2 | 2538.4 | 2538.4 | 2530.8 | 2527.0 | 2530.8 | 2530.8 |
| 20°   | 2466.0 | 2458.4 | 2450.7 | 2454.6 | 2446.9 | 2443.1 | 2446.9 | 2435.5 | 2439.3 | 2439.3 | 2439.3 |
| 22.5° | 2359.3 | 2355.5 | 2344.1 | 2344.1 | 2336.4 | 2332.6 | 2336.4 | 2336.4 | 2340.2 | 2336.4 | 2336.4 |
| 25°   | 2241.2 | 2233.6 | 2225.9 | 2225.9 | 2222.1 | 2218.2 | 2222.1 | 2225.9 | 2222.1 | 2225.9 | 2225.9 |
| 27.5° | 2115.3 | 2103.9 | 2103.9 | 2096.3 | 2096.3 | 2100.1 | 2096.3 | 2100.1 | 2103.9 | 2103.9 | 2111.5 |
| 30°   | 1978.2 | 1974.4 | 1970.6 | 1966.7 | 1966.7 | 1970.6 | 1970.6 | 1970.6 | 1974.4 | 1982.0 | 1982.0 |
| 32.5° | 1848.6 | 1840.9 | 1833.3 | 1833.3 | 1840.9 | 1837.1 | 1840.9 | 1840.9 | 1848.6 | 1848.6 | 1856.2 |
| 35°   | 1707.5 | 1707.5 | 1699.9 | 1703.7 | 1703.7 | 1703.7 | 1703.7 | 1711.3 | 1719.0 | 1722.8 | 1730.4 |
| 37.5° | 1578.0 | 1566.5 | 1570.4 | 1570.4 | 1574.2 | 1570.4 | 1581.8 | 1581.8 | 1589.4 | 1589.4 | 1597.0 |
| 40°   | 1436.9 | 1436.9 | 1440.7 | 1436.9 | 1440.7 | 1440.7 | 1448.3 | 1455.9 | 1459.7 | 1467.5 | 1471.3 |
| 42.5° | 1303.6 | 1311.2 | 1303.6 | 1307.4 | 1311.2 | 1315.0 | 1318.8 | 1322.6 | 1337.8 | 1345.4 | 1356.9 |
| 45°   | 1181.5 | 1185.3 | 1189.2 | 1193.0 | 1189.2 | 1196.8 | 1200.6 | 1208.2 | 1219.7 | 1223.5 | 1227.3 |
| 47.5° | 1063.4 | 1067.2 | 1071.0 | 1074.9 | 1074.9 | 1082.5 | 1086.3 | 1093.9 | 1101.5 | 1105.3 | 1109.1 |
| 50°   | 949.0  | 956.6  | 960.4  | 960.4  | 964.4  | 972.0  | 979.6  | 979.6  | 987.2  | 998.6  | 1002.4 |
| 52.5° | 846.1  | 846.1  | 853.7  | 857.6  | 861.4  | 861.4  | 872.8  | 876.6  | 880.5  | 888.1  | 895.7  |
| 55°   | 731.8  | 743.3  | 747.1  | 747.1  | 754.7  | 762.3  | 766.1  | 769.9  | 769.9  | 785.1  | 785.1  |
| 57.5° | 632.8  | 636.6  | 644.2  | 644.2  | 644.2  | 655.6  | 655.6  | 663.2  | 667.0  | 670.8  | 678.4  |
| 60°   | 533.6  | 541.2  | 541.2  | 545.1  | 541.2  | 548.9  | 552.7  | 560.3  | 564.1  | 567.9  | 571.7  |
| 62.5° | 442.1  | 442.1  | 445.9  | 445.9  | 445.9  | 445.9  | 453.5  | 453.5  | 461.2  | 465.1  | 468.9  |
| 65°   | 354.4  | 354.4  | 354.4  | 354.4  | 354.4  | 354.4  | 354.4  | 354.4  | 358.2  | 358.2  | 365.9  |
| 67.5° | 274.4  | 270.6  | 263.0  | 266.8  | 263.0  | 263.0  | 259.2  | 259.2  | 263.0  | 263.0  | 270.6  |
| 70°   | 198.2  | 194.3  | 186.7  | 186.7  | 182.9  | 179.1  | 175.3  | 171.5  | 167.7  | 167.7  | 167.7  |
| 72.5° | 129.6  | 121.9  | 110.5  | 106.7  | 106.7  | 99.1   | 91.5   | 87.7   | 87.7   | 87.7   | 87.7   |
| 75°   | 64.8   | 57.2   | 49.6   | 45.8   | 45.8   | 38.1   | 42.0   | 38.1   | 38.1   | 38.1   | 38.1   |
| 77.5° | 26.6   | 19.0   | 15.2   | 15.2   | 15.2   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   |
| 80°   | 7.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 82.5° | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 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: P593885

CATALOG NUMBER: HCC8W60D010BZ-HM86080950-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 | 2854.8 |
| 2.5°  | 2839.6 | 2839.6 | 2831.9 | 2835.7 | 2835.7 | 2835.7 | 2835.7 | 2835.7 |
| 5°    | 2805.2 | 2809.1 | 2805.2 | 2809.1 | 2809.1 | 2805.2 | 2805.2 | 2805.2 |
| 7.5°  | 2770.9 | 2774.7 | 2770.9 | 2774.7 | 2774.7 | 2774.7 | 2770.9 | 2770.9 |
| 10°   | 2729.1 | 2729.1 | 2729.1 | 2729.1 | 2729.1 | 2725.3 | 2729.1 | 2729.1 |
| 12.5° | 2671.9 | 2671.9 | 2671.9 | 2675.7 | 2675.7 | 2671.9 | 2671.9 | 2668.0 |
| 15°   | 2610.8 | 2603.2 | 2607.0 | 2610.8 | 2607.0 | 2607.0 | 2607.0 | 2607.0 |
| 17.5° | 2527.0 | 2530.8 | 2527.0 | 2527.0 | 2527.0 | 2527.0 | 2530.8 | 2527.0 |
| 20°   | 2439.3 | 2439.3 | 2443.1 | 2439.3 | 2439.3 | 2439.3 | 2439.3 | 2435.5 |
| 22.5° | 2340.2 | 2336.4 | 2336.4 | 2340.2 | 2340.2 | 2336.4 | 2340.2 | 2340.2 |
| 25°   | 2229.8 | 2233.6 | 2229.8 | 2229.8 | 2233.6 | 2233.6 | 2233.6 | 2229.8 |
| 27.5° | 2111.5 | 2115.3 | 2119.1 | 2115.3 | 2115.3 | 2115.3 | 2119.1 | 2122.9 |
| 30°   | 1989.6 | 1997.2 | 1989.6 | 1989.6 | 1997.2 | 1993.4 | 1997.2 | 1997.2 |
| 32.5° | 1860.0 | 1871.4 | 1863.8 | 1871.4 | 1871.4 | 1875.2 | 1871.4 | 1875.2 |
| 35°   | 1730.4 | 1741.9 | 1741.9 | 1741.9 | 1745.7 | 1749.5 | 1749.5 | 1745.7 |
| 37.5° | 1608.4 | 1612.2 | 1612.2 | 1619.8 | 1623.6 | 1627.4 | 1627.4 | 1623.6 |
| 40°   | 1482.7 | 1490.3 | 1494.1 | 1494.1 | 1494.1 | 1501.7 | 1509.3 | 1501.7 |
| 42.5° | 1360.7 | 1364.5 | 1368.3 | 1368.3 | 1375.9 | 1379.7 | 1383.6 | 1383.6 |
| 45°   | 1242.6 | 1250.2 | 1254.0 | 1257.8 | 1261.6 | 1269.2 | 1265.4 | 1273.0 |
| 47.5° | 1120.5 | 1132.1 | 1135.9 | 1139.7 | 1147.3 | 1151.1 | 1154.9 | 1158.7 |
| 50°   | 1010.0 | 1017.6 | 1017.6 | 1025.3 | 1036.7 | 1036.7 | 1044.3 | 1048.2 |
| 52.5° | 899.5  | 903.3  | 907.1  | 911.0  | 918.6  | 926.2  | 926.2  | 933.8  |
| 55°   | 792.7  | 796.7  | 796.7  | 800.5  | 804.3  | 819.5  | 823.3  | 823.3  |
| 57.5° | 682.2  | 682.2  | 689.8  | 693.7  | 697.5  | 705.1  | 705.1  | 705.1  |
| 60°   | 575.5  | 579.4  | 579.4  | 583.2  | 587.0  | 594.6  | 598.4  | 594.6  |
| 62.5° | 468.9  | 472.7  | 472.7  | 476.5  | 484.1  | 487.9  | 484.1  | 484.1  |
| 65°   | 369.7  | 373.5  | 373.5  | 377.4  | 385.0  | 385.0  | 381.2  | 385.0  |
| 67.5° | 270.6  | 270.6  | 270.6  | 270.6  | 270.6  | 270.6  | 270.6  | 270.6  |
| 70°   | 171.5  | 167.7  | 163.9  | 167.7  | 167.7  | 167.7  | 163.9  | 171.5  |
| 72.5° | 83.9   | 87.7   | 87.7   | 87.7   | 87.7   | 87.7   | 87.7   | 83.9   |
| 75°   | 38.1   | 38.1   | 34.3   | 34.3   | 34.3   | 38.1   | 38.1   | 34.3   |
| 77.5° | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   |
| 80°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 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    |

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Scaled Data Report



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Scaled Data Report



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

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(END OF REPORT)