

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: P593855

Luminaire Tested: **HCC8S55D010MB-HM82555950-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593855  
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: HCC8S55D010MB-HM82555950-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

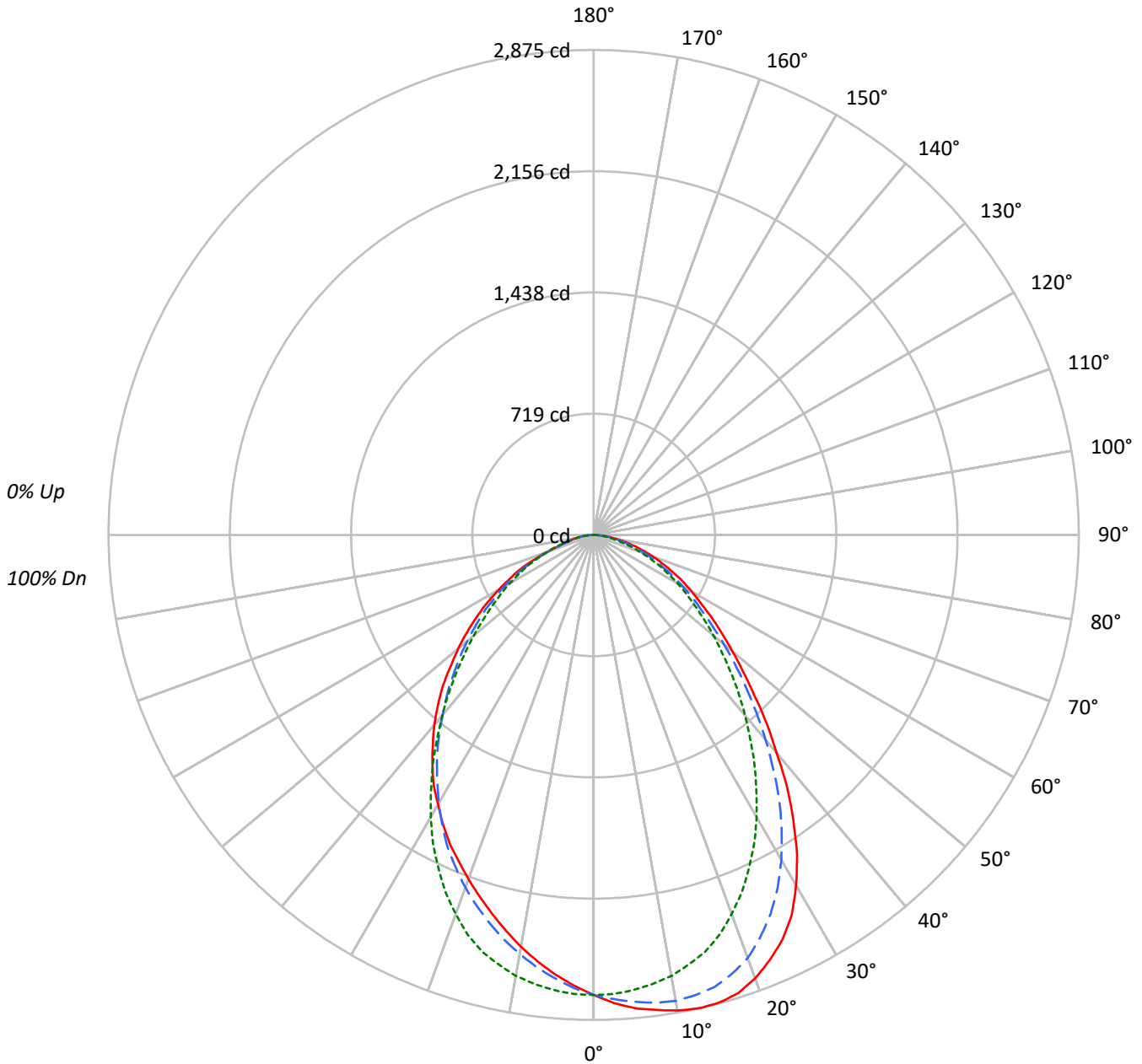
Lumens per Lamp: N/A  
Luminaire Lumens: 5486.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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 | 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°  | 84112 | 84112 | 84112 |
| 5°  | 87192 | 83833 | 80954 |
| 10° | 89656 | 83105 | 77644 |
| 15° | 91654 | 81636 | 74217 |
| 20° | 91798 | 78448 | 71199 |
| 25° | 90041 | 74087 | 68684 |
| 30° | 85399 | 68707 | 65669 |
| 35° | 77596 | 62568 | 62719 |
| 40° | 67848 | 56146 | 59109 |
| 45° | 58803 | 50015 | 55083 |
| 50° | 51484 | 44423 | 50184 |
| 55° | 45826 | 39370 | 45412 |
| 60° | 41339 | 35369 | 39908 |
| 65° | 37322 | 31105 | 34768 |
| 70° | 33539 | 26191 | 25849 |
| 75° | 29547 | 20778 | 19384 |
| 80° | 24772 | 17190 | 18593 |
| 85° | 19212 | 15108 | 16452 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 257.3  | 4.7       |
| 10°-20°   | 724.8  | 13.2      |
| 20°-30°   | 1035.8 | 18.9      |
| 30°-40°   | 1100.6 | 20.1      |
| 40°-50°   | 947.6  | 17.3      |
| 50°-60°   | 708.5  | 12.9      |
| 60°-70°   | 451.9  | 8.2       |
| 70°-80°   | 205.7  | 3.7       |
| 80°-90°   | 54.0   | 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°    | 2017.9 | 36.8      |
| 0°-40°    | 3118.5 | 56.8      |
| 0°-60°    | 4774.6 | 87.0      |
| 0°-90°    | 5486.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5486.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2728 | 2728 | 2728 | 2728 | 2728 |      |
| 5°  | 2817 | 2778 | 2708 | 2638 | 2615 | 270  |
| 15° | 2871 | 2774 | 2557 | 2383 | 2325 | 809  |
| 25° | 2646 | 2480 | 2178 | 2046 | 2019 | 1211 |
| 35° | 2061 | 1918 | 1662 | 1620 | 1666 | 1284 |
| 45° | 1348 | 1275 | 1147 | 1178 | 1263 | 1048 |
| 55° | 852  | 783  | 732  | 794  | 845  | 766  |
| 65° | 512  | 453  | 426  | 446  | 476  | 510  |
| 75° | 248  | 213  | 174  | 159  | 163  | 264  |
| 85° | 54   | 46   | 43   | 46   | 46   | 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°    | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 |
| 2.5°  | 2778.1 | 2770.3 | 2774.1 | 2770.3 | 2774.1 | 2774.1 | 2766.4 | 2766.4 | 2766.4 | 2766.4 | 2754.8 |
| 5°    | 2816.8 | 2812.9 | 2812.9 | 2809.0 | 2805.2 | 2809.0 | 2805.2 | 2801.3 | 2793.6 | 2789.7 | 2778.1 |
| 7.5°  | 2840.0 | 2840.0 | 2840.0 | 2840.0 | 2836.1 | 2832.3 | 2828.4 | 2820.7 | 2812.9 | 2805.2 | 2797.4 |
| 10°   | 2863.3 | 2867.2 | 2863.3 | 2859.4 | 2855.6 | 2847.8 | 2844.0 | 2836.1 | 2824.5 | 2812.9 | 2805.2 |
| 12.5° | 2874.9 | 2874.9 | 2871.0 | 2871.0 | 2863.3 | 2859.4 | 2847.8 | 2836.1 | 2824.5 | 2812.9 | 2793.6 |
| 15°   | 2871.0 | 2871.0 | 2867.2 | 2863.3 | 2851.7 | 2847.8 | 2840.0 | 2828.4 | 2809.0 | 2793.6 | 2774.1 |
| 17.5° | 2847.8 | 2844.0 | 2836.1 | 2836.1 | 2820.7 | 2816.8 | 2809.0 | 2793.6 | 2774.1 | 2750.9 | 2727.7 |
| 20°   | 2797.4 | 2797.4 | 2793.6 | 2789.7 | 2774.1 | 2762.5 | 2754.8 | 2735.4 | 2720.0 | 2692.8 | 2669.6 |
| 22.5° | 2727.7 | 2735.4 | 2727.7 | 2720.0 | 2700.5 | 2696.7 | 2685.1 | 2661.8 | 2638.5 | 2607.6 | 2580.5 |
| 25°   | 2646.4 | 2642.4 | 2638.5 | 2630.8 | 2615.3 | 2607.6 | 2592.1 | 2568.8 | 2545.6 | 2510.7 | 2479.7 |
| 27.5° | 2541.7 | 2526.2 | 2526.2 | 2510.7 | 2499.1 | 2487.5 | 2479.7 | 2456.5 | 2425.5 | 2398.4 | 2359.6 |
| 30°   | 2398.4 | 2402.2 | 2382.8 | 2378.9 | 2359.6 | 2351.9 | 2336.4 | 2313.1 | 2286.0 | 2255.0 | 2224.0 |
| 32.5° | 2243.3 | 2231.7 | 2231.7 | 2216.3 | 2200.8 | 2189.2 | 2185.2 | 2158.1 | 2134.9 | 2103.9 | 2072.9 |
| 35°   | 2061.3 | 2061.3 | 2049.6 | 2045.7 | 2030.3 | 2022.5 | 2010.9 | 1995.4 | 1968.3 | 1941.2 | 1917.9 |
| 37.5° | 1883.1 | 1875.3 | 1871.4 | 1863.7 | 1852.0 | 1840.4 | 1840.4 | 1813.3 | 1809.5 | 1778.4 | 1747.5 |
| 40°   | 1685.5 | 1693.2 | 1685.5 | 1673.9 | 1670.0 | 1662.1 | 1658.3 | 1642.8 | 1631.2 | 1604.1 | 1584.7 |
| 42.5° | 1518.8 | 1511.1 | 1511.1 | 1507.2 | 1491.7 | 1491.7 | 1484.0 | 1476.3 | 1456.8 | 1449.1 | 1425.9 |
| 45°   | 1348.4 | 1356.1 | 1344.5 | 1348.4 | 1332.8 | 1332.8 | 1332.8 | 1317.3 | 1301.9 | 1290.3 | 1274.8 |
| 47.5° | 1201.1 | 1204.9 | 1204.9 | 1193.3 | 1189.5 | 1189.5 | 1181.7 | 1174.0 | 1162.4 | 1146.9 | 1135.2 |
| 50°   | 1073.2 | 1077.1 | 1069.3 | 1065.5 | 1057.7 | 1053.9 | 1053.9 | 1038.4 | 1030.7 | 1015.2 | 1007.3 |
| 52.5° | 957.1  | 957.1  | 953.2  | 953.2  | 941.5  | 941.5  | 933.7  | 922.1  | 914.4  | 906.7  | 887.3  |
| 55°   | 852.4  | 852.4  | 848.5  | 844.7  | 844.7  | 833.1  | 829.2  | 817.6  | 809.7  | 794.3  | 782.7  |
| 57.5° | 751.7  | 755.6  | 751.7  | 747.7  | 743.9  | 740.0  | 732.3  | 720.7  | 712.9  | 701.3  | 693.6  |
| 60°   | 670.3  | 670.3  | 666.4  | 662.5  | 654.8  | 650.9  | 647.1  | 639.3  | 627.7  | 619.9  | 608.3  |
| 62.5° | 592.8  | 588.9  | 585.1  | 581.2  | 573.5  | 573.5  | 565.7  | 558.0  | 546.3  | 538.5  | 530.8  |
| 65°   | 511.5  | 511.5  | 507.6  | 507.6  | 503.7  | 496.0  | 492.1  | 488.1  | 472.7  | 468.8  | 453.3  |
| 67.5° | 437.9  | 441.7  | 434.0  | 434.0  | 426.3  | 426.3  | 422.3  | 410.7  | 406.8  | 399.1  | 391.3  |
| 70°   | 372.0  | 372.0  | 372.0  | 368.1  | 360.4  | 356.4  | 352.5  | 344.8  | 340.9  | 333.2  | 325.5  |
| 72.5° | 306.1  | 306.1  | 302.3  | 302.3  | 298.4  | 294.5  | 290.5  | 282.8  | 282.8  | 275.1  | 267.3  |
| 75°   | 248.0  | 248.0  | 244.1  | 240.3  | 236.4  | 236.4  | 232.5  | 228.7  | 220.8  | 216.9  | 213.1  |
| 77.5° | 189.9  | 189.9  | 189.9  | 186.0  | 182.1  | 182.1  | 182.1  | 174.4  | 166.7  | 166.7  | 162.7  |
| 80°   | 139.5  | 139.5  | 135.6  | 135.6  | 131.7  | 131.7  | 131.7  | 127.9  | 124.0  | 120.1  | 116.3  |
| 82.5° | 92.9   | 92.9   | 92.9   | 92.9   | 89.1   | 89.1   | 89.1   | 85.2   | 81.3   | 81.3   | 81.3   |
| 85°   | 54.3   | 54.3   | 54.3   | 54.3   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   | 46.5   | 46.5   |
| 87.5° | 23.2   | 19.3   | 23.2   | 19.3   | 23.2   | 19.3   | 23.2   | 19.3   | 19.3   | 19.3   | 19.3   |
| 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°    | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 |
| 2.5°  | 2758.7 | 2754.8 | 2750.9 | 2747.1 | 2747.1 | 2743.2 | 2735.4 | 2731.6 | 2727.7 | 2723.8 | 2723.8 |
| 5°    | 2774.1 | 2770.3 | 2762.5 | 2754.8 | 2750.9 | 2743.2 | 2735.4 | 2727.7 | 2720.0 | 2708.3 | 2704.4 |
| 7.5°  | 2785.8 | 2774.1 | 2766.4 | 2750.9 | 2747.1 | 2739.3 | 2727.7 | 2716.1 | 2700.5 | 2685.1 | 2673.4 |
| 10°   | 2785.8 | 2770.3 | 2758.7 | 2739.3 | 2731.6 | 2723.8 | 2708.3 | 2688.9 | 2669.6 | 2654.1 | 2634.7 |
| 12.5° | 2778.1 | 2758.7 | 2739.3 | 2720.0 | 2708.3 | 2696.7 | 2673.4 | 2654.1 | 2630.8 | 2607.6 | 2592.1 |
| 15°   | 2750.9 | 2727.7 | 2704.4 | 2681.2 | 2669.6 | 2654.1 | 2630.8 | 2603.7 | 2580.5 | 2557.2 | 2530.1 |
| 17.5° | 2700.5 | 2677.3 | 2650.2 | 2623.1 | 2607.6 | 2596.0 | 2561.1 | 2541.7 | 2506.8 | 2483.6 | 2460.4 |
| 20°   | 2634.7 | 2607.6 | 2572.7 | 2545.6 | 2526.2 | 2514.6 | 2487.5 | 2452.6 | 2425.5 | 2390.6 | 2367.3 |
| 22.5° | 2549.5 | 2514.6 | 2479.7 | 2452.6 | 2433.2 | 2417.7 | 2382.8 | 2348.0 | 2324.8 | 2293.7 | 2266.6 |
| 25°   | 2448.7 | 2413.9 | 2378.9 | 2340.2 | 2320.9 | 2305.3 | 2274.4 | 2243.3 | 2212.4 | 2177.5 | 2154.3 |
| 27.5° | 2328.6 | 2289.9 | 2258.9 | 2224.0 | 2204.6 | 2181.3 | 2146.5 | 2115.5 | 2084.5 | 2061.3 | 2030.3 |
| 30°   | 2196.9 | 2154.3 | 2123.3 | 2088.4 | 2069.0 | 2049.6 | 2014.8 | 1983.7 | 1956.7 | 1929.6 | 1914.0 |
| 32.5° | 2038.0 | 2007.0 | 1976.0 | 1941.2 | 1925.6 | 1914.0 | 1879.2 | 1848.1 | 1817.2 | 1793.9 | 1782.3 |
| 35°   | 1886.9 | 1852.0 | 1824.9 | 1793.9 | 1774.5 | 1762.9 | 1732.0 | 1704.8 | 1689.3 | 1662.1 | 1646.7 |
| 37.5° | 1728.0 | 1700.9 | 1670.0 | 1638.9 | 1627.3 | 1615.7 | 1592.4 | 1565.3 | 1542.1 | 1522.7 | 1514.9 |
| 40°   | 1561.5 | 1538.2 | 1511.1 | 1491.7 | 1480.1 | 1468.4 | 1449.1 | 1429.7 | 1414.3 | 1394.8 | 1387.1 |
| 42.5° | 1402.5 | 1387.1 | 1363.9 | 1340.7 | 1328.9 | 1325.1 | 1301.9 | 1286.4 | 1278.7 | 1270.8 | 1263.1 |
| 45°   | 1259.2 | 1236.0 | 1220.5 | 1204.9 | 1193.3 | 1185.6 | 1174.0 | 1162.4 | 1154.7 | 1146.9 | 1139.1 |
| 47.5° | 1119.7 | 1100.4 | 1084.9 | 1073.2 | 1061.6 | 1057.7 | 1050.0 | 1038.4 | 1030.7 | 1030.7 | 1030.7 |
| 50°   | 991.9  | 976.4  | 960.9  | 953.2  | 949.3  | 941.5  | 933.7  | 929.9  | 926.0  | 926.0  | 926.0  |
| 52.5° | 879.5  | 864.0  | 852.4  | 844.7  | 844.7  | 836.9  | 829.2  | 825.3  | 825.3  | 825.3  | 825.3  |
| 55°   | 774.9  | 763.3  | 755.6  | 747.7  | 740.0  | 736.1  | 736.1  | 736.1  | 732.3  | 732.3  | 736.1  |
| 57.5° | 681.9  | 674.1  | 662.5  | 654.8  | 650.9  | 650.9  | 647.1  | 643.2  | 647.1  | 650.9  | 654.8  |
| 60°   | 596.7  | 588.9  | 585.1  | 573.5  | 573.5  | 573.5  | 569.6  | 569.6  | 569.6  | 573.5  | 577.3  |
| 62.5° | 519.2  | 515.3  | 507.6  | 503.7  | 499.9  | 499.9  | 496.0  | 496.0  | 496.0  | 496.0  | 499.9  |
| 65°   | 449.5  | 441.7  | 434.0  | 434.0  | 434.0  | 430.1  | 430.1  | 422.3  | 426.3  | 426.3  | 422.3  |
| 67.5° | 383.6  | 375.9  | 372.0  | 368.1  | 364.3  | 364.3  | 360.4  | 356.4  | 352.5  | 352.5  | 352.5  |
| 70°   | 321.6  | 313.9  | 313.9  | 306.1  | 306.1  | 302.3  | 298.4  | 298.4  | 294.5  | 290.5  | 286.7  |
| 72.5° | 259.6  | 255.7  | 251.9  | 248.0  | 248.0  | 248.0  | 244.1  | 240.3  | 236.4  | 232.5  | 224.7  |
| 75°   | 205.3  | 205.3  | 197.6  | 193.7  | 193.7  | 189.9  | 186.0  | 182.1  | 178.3  | 174.4  | 170.5  |
| 77.5° | 158.8  | 154.9  | 147.2  | 143.3  | 143.3  | 143.3  | 139.5  | 135.6  | 131.7  | 127.9  | 124.0  |
| 80°   | 116.3  | 112.4  | 108.5  | 104.7  | 104.7  | 104.7  | 100.8  | 100.8  | 96.8   | 96.8   | 96.8   |
| 82.5° | 77.5   | 77.5   | 73.6   | 73.6   | 73.6   | 73.6   | 69.7   | 69.7   | 69.7   | 69.7   | 69.7   |
| 85°   | 46.5   | 46.5   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   |
| 87.5° | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   |
| 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: P593855

CATALOG NUMBER: HCC8S55D010MB-HM82555950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 |
| 2.5°  | 2716.1 | 2716.1 | 2708.3 | 2704.4 | 2700.5 | 2704.4 | 2696.7 | 2692.8 | 2688.9 | 2688.9 | 2685.1 |
| 5°    | 2692.8 | 2688.9 | 2673.4 | 2669.6 | 2665.7 | 2661.8 | 2654.1 | 2646.4 | 2638.5 | 2634.7 | 2630.8 |
| 7.5°  | 2661.8 | 2650.2 | 2634.7 | 2630.8 | 2626.9 | 2615.3 | 2603.7 | 2596.0 | 2584.4 | 2580.5 | 2572.7 |
| 10°   | 2619.2 | 2603.7 | 2592.1 | 2580.5 | 2572.7 | 2561.1 | 2549.5 | 2537.8 | 2522.4 | 2518.5 | 2506.8 |
| 12.5° | 2568.8 | 2549.5 | 2526.2 | 2522.4 | 2510.7 | 2495.2 | 2479.7 | 2468.1 | 2456.5 | 2448.7 | 2437.1 |
| 15°   | 2506.8 | 2487.5 | 2464.2 | 2452.6 | 2440.9 | 2429.3 | 2410.0 | 2394.5 | 2382.8 | 2371.2 | 2359.6 |
| 17.5° | 2433.2 | 2410.0 | 2390.6 | 2378.9 | 2371.2 | 2351.9 | 2336.4 | 2316.9 | 2305.3 | 2293.7 | 2282.1 |
| 20°   | 2344.1 | 2324.8 | 2297.6 | 2286.0 | 2282.1 | 2266.6 | 2247.2 | 2239.5 | 2224.0 | 2212.4 | 2204.6 |
| 22.5° | 2243.3 | 2224.0 | 2200.8 | 2193.0 | 2177.5 | 2169.7 | 2150.4 | 2142.7 | 2134.9 | 2123.3 | 2119.3 |
| 25°   | 2131.0 | 2111.6 | 2092.3 | 2088.4 | 2076.8 | 2069.0 | 2057.4 | 2045.7 | 2045.7 | 2034.1 | 2034.1 |
| 27.5° | 2014.8 | 1995.4 | 1979.9 | 1972.1 | 1968.3 | 1960.5 | 1948.9 | 1945.1 | 1941.2 | 1937.3 | 1937.3 |
| 30°   | 1890.8 | 1867.6 | 1859.7 | 1855.9 | 1852.0 | 1844.3 | 1840.4 | 1832.7 | 1836.5 | 1840.4 | 1836.5 |
| 32.5° | 1759.1 | 1751.3 | 1735.8 | 1728.0 | 1732.0 | 1728.0 | 1720.3 | 1728.0 | 1724.1 | 1732.0 | 1735.8 |
| 35°   | 1631.2 | 1623.5 | 1615.7 | 1615.7 | 1608.0 | 1608.0 | 1608.0 | 1611.9 | 1619.6 | 1623.5 | 1631.2 |
| 37.5° | 1507.2 | 1495.6 | 1491.7 | 1487.9 | 1491.7 | 1491.7 | 1491.7 | 1499.5 | 1507.2 | 1514.9 | 1526.5 |
| 40°   | 1375.5 | 1367.7 | 1367.7 | 1367.7 | 1367.7 | 1379.3 | 1375.5 | 1383.2 | 1390.9 | 1402.5 | 1414.3 |
| 42.5° | 1251.5 | 1251.5 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1263.1 | 1274.8 | 1286.4 | 1298.0 | 1309.6 |
| 45°   | 1135.2 | 1135.2 | 1135.2 | 1143.1 | 1143.1 | 1146.9 | 1162.4 | 1170.1 | 1177.9 | 1189.5 | 1201.1 |
| 47.5° | 1026.8 | 1026.8 | 1030.7 | 1034.5 | 1038.4 | 1046.1 | 1053.9 | 1065.5 | 1077.1 | 1084.9 | 1096.5 |
| 50°   | 926.0  | 929.9  | 937.6  | 945.3  | 945.3  | 949.3  | 960.9  | 968.7  | 976.4  | 988.0  | 991.9  |
| 52.5° | 829.2  | 836.9  | 844.7  | 848.5  | 852.4  | 860.1  | 864.0  | 875.6  | 879.5  | 891.2  | 895.1  |
| 55°   | 740.0  | 743.9  | 755.6  | 759.5  | 759.5  | 767.2  | 774.9  | 782.7  | 794.3  | 794.3  | 802.0  |
| 57.5° | 658.7  | 662.5  | 670.3  | 674.1  | 670.3  | 681.9  | 685.9  | 693.6  | 697.5  | 705.2  | 709.1  |
| 60°   | 577.3  | 585.1  | 588.9  | 588.9  | 592.8  | 596.7  | 604.4  | 604.4  | 612.1  | 619.9  | 619.9  |
| 62.5° | 499.9  | 503.7  | 507.6  | 511.5  | 515.3  | 511.5  | 523.1  | 523.1  | 530.8  | 534.7  | 542.4  |
| 65°   | 426.3  | 430.1  | 430.1  | 434.0  | 434.0  | 437.9  | 437.9  | 441.7  | 445.6  | 453.3  | 457.2  |
| 67.5° | 352.5  | 352.5  | 352.5  | 356.4  | 352.5  | 356.4  | 356.4  | 360.4  | 360.4  | 368.1  | 372.0  |
| 70°   | 286.7  | 282.8  | 278.9  | 278.9  | 278.9  | 278.9  | 275.1  | 278.9  | 278.9  | 282.8  | 282.8  |
| 72.5° | 220.8  | 216.9  | 213.1  | 209.2  | 209.2  | 205.3  | 201.5  | 205.3  | 205.3  | 209.2  | 209.2  |
| 75°   | 166.7  | 158.8  | 158.8  | 158.8  | 154.9  | 154.9  | 154.9  | 158.8  | 158.8  | 158.8  | 162.7  |
| 77.5° | 124.0  | 124.0  | 120.1  | 120.1  | 120.1  | 124.0  | 124.0  | 127.9  | 127.9  | 127.9  | 127.9  |
| 80°   | 92.9   | 96.8   | 96.8   | 96.8   | 96.8   | 100.8  | 100.8  | 100.8  | 100.8  | 104.7  | 104.7  |
| 82.5° | 69.7   | 69.7   | 69.7   | 69.7   | 73.6   | 73.6   | 73.6   | 73.6   | 73.6   | 73.6   | 73.6   |
| 85°   | 42.7   | 46.5   | 46.5   | 42.7   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   |
| 87.5° | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   |
| 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: P593855

CATALOG NUMBER: HCC8S55D010MB-HM82555950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 | 2727.7 |
| 2.5°  | 2681.2 | 2681.2 | 2681.2 | 2681.2 | 2677.3 | 2677.3 | 2677.3 | 2673.4 |
| 5°    | 2623.1 | 2623.1 | 2623.1 | 2615.3 | 2619.2 | 2619.2 | 2611.5 | 2615.3 |
| 7.5°  | 2564.9 | 2561.1 | 2557.2 | 2557.2 | 2553.3 | 2549.5 | 2545.6 | 2549.5 |
| 10°   | 2499.1 | 2487.5 | 2487.5 | 2483.6 | 2483.6 | 2475.8 | 2475.8 | 2479.7 |
| 12.5° | 2425.5 | 2417.7 | 2417.7 | 2413.9 | 2410.0 | 2406.1 | 2402.2 | 2402.2 |
| 15°   | 2351.9 | 2344.1 | 2340.2 | 2336.4 | 2332.5 | 2324.8 | 2328.6 | 2324.8 |
| 17.5° | 2278.3 | 2266.6 | 2266.6 | 2262.8 | 2258.9 | 2251.1 | 2251.1 | 2247.2 |
| 20°   | 2193.0 | 2189.2 | 2181.3 | 2185.2 | 2181.3 | 2173.6 | 2169.7 | 2169.7 |
| 22.5° | 2107.7 | 2107.7 | 2103.9 | 2103.9 | 2100.0 | 2096.1 | 2092.3 | 2092.3 |
| 25°   | 2026.4 | 2022.5 | 2026.4 | 2026.4 | 2014.8 | 2014.8 | 2014.8 | 2018.7 |
| 27.5° | 1933.4 | 1937.3 | 1933.4 | 1933.4 | 1933.4 | 1933.4 | 1937.3 | 1933.4 |
| 30°   | 1840.4 | 1840.4 | 1840.4 | 1844.3 | 1852.0 | 1848.1 | 1848.1 | 1844.3 |
| 32.5° | 1739.7 | 1743.6 | 1743.6 | 1747.5 | 1751.3 | 1759.1 | 1759.1 | 1762.9 |
| 35°   | 1638.9 | 1646.7 | 1650.5 | 1646.7 | 1658.3 | 1658.3 | 1666.1 | 1666.1 |
| 37.5° | 1534.3 | 1538.2 | 1546.0 | 1549.9 | 1557.6 | 1561.5 | 1565.3 | 1565.3 |
| 40°   | 1422.0 | 1437.5 | 1441.3 | 1445.2 | 1456.8 | 1456.8 | 1460.7 | 1468.4 |
| 42.5° | 1317.3 | 1332.8 | 1336.7 | 1340.7 | 1348.4 | 1360.0 | 1356.1 | 1363.9 |
| 45°   | 1216.7 | 1228.3 | 1232.1 | 1236.0 | 1247.6 | 1251.5 | 1251.5 | 1263.1 |
| 47.5° | 1108.1 | 1115.9 | 1119.7 | 1127.5 | 1135.2 | 1143.1 | 1150.8 | 1146.9 |
| 50°   | 999.6  | 1011.2 | 1019.1 | 1022.9 | 1034.5 | 1038.4 | 1042.3 | 1046.1 |
| 52.5° | 902.8  | 910.5  | 914.4  | 918.3  | 929.9  | 933.7  | 937.6  | 945.3  |
| 55°   | 809.7  | 813.6  | 821.5  | 817.6  | 829.2  | 833.1  | 836.9  | 844.7  |
| 57.5° | 716.8  | 720.7  | 724.5  | 724.5  | 732.3  | 740.0  | 743.9  | 747.7  |
| 60°   | 627.7  | 635.5  | 639.3  | 639.3  | 639.3  | 647.1  | 647.1  | 647.1  |
| 62.5° | 546.3  | 546.3  | 550.1  | 550.1  | 558.0  | 558.0  | 558.0  | 558.0  |
| 65°   | 461.1  | 464.9  | 468.8  | 468.8  | 476.5  | 472.7  | 480.4  | 476.5  |
| 67.5° | 372.0  | 372.0  | 379.7  | 379.7  | 375.9  | 379.7  | 379.7  | 379.7  |
| 70°   | 282.8  | 282.8  | 286.7  | 286.7  | 286.7  | 286.7  | 286.7  | 286.7  |
| 72.5° | 209.2  | 209.2  | 209.2  | 213.1  | 209.2  | 209.2  | 213.1  | 209.2  |
| 75°   | 162.7  | 162.7  | 162.7  | 162.7  | 162.7  | 162.7  | 162.7  | 162.7  |
| 77.5° | 127.9  | 127.9  | 131.7  | 131.7  | 131.7  | 131.7  | 131.7  | 131.7  |
| 80°   | 104.7  | 104.7  | 104.7  | 104.7  | 108.5  | 104.7  | 104.7  | 104.7  |
| 82.5° | 77.5   | 73.6   | 77.5   | 73.6   | 77.5   | 77.5   | 77.5   | 77.5   |
| 85°   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   |
| 87.5° | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   |
| 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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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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