

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: P585235

Luminaire Tested: **HCC8S80D010BZ-HM86080835-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585235  
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: HCC8S80D010BZ-HM86080835-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

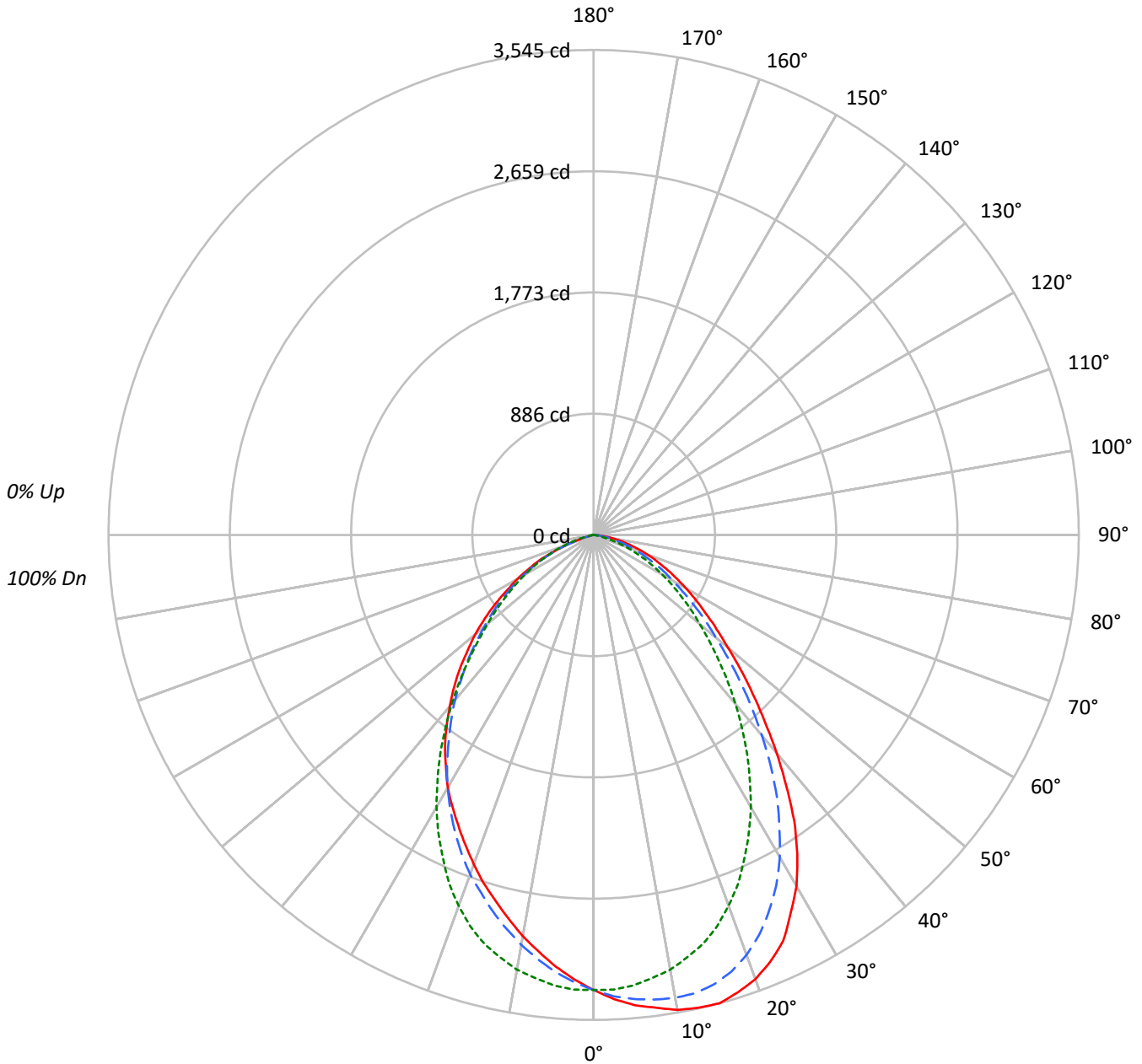
Lumens per Lamp: N/A  
Luminaire Lumens: 6196.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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  | 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°  | 102571 | 102571 | 102571 |
| 5°  | 106813 | 102350 | 98041  |
| 10° | 110384 | 101041 | 93257  |
| 15° | 113174 | 98732  | 88411  |
| 20° | 113397 | 94633  | 84027  |
| 25° | 111483 | 88643  | 79681  |
| 30° | 105513 | 81792  | 75953  |
| 35° | 96203  | 73557  | 71313  |
| 40° | 83664  | 64849  | 65847  |
| 45° | 71772  | 56160  | 60277  |
| 50° | 61300  | 48419  | 54147  |
| 55° | 53729  | 41703  | 47047  |
| 60° | 47839  | 35573  | 39551  |
| 65° | 42451  | 29018  | 31565  |
| 70° | 37660  | 21512  | 17933  |
| 75° | 31394  | 11259  | 5326   |
| 80° | 24719  | 3534   | 888    |
| 85° | 17584  | 1769   | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 313.4  | 5.1       |
| 10°-20°   | 878.5  | 14.2      |
| 20°-30°   | 1243.4 | 20.1      |
| 30°-40°   | 1300.9 | 21.0      |
| 40°-50°   | 1085.0 | 17.5      |
| 50°-60°   | 769.4  | 12.4      |
| 60°-70°   | 443.1  | 7.2       |
| 70°-80°   | 142.6  | 2.3       |
| 80°-90°   | 19.6   | 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°    | 2435.3 | 39.3      |
| 0°-40°    | 3736.2 | 60.3      |
| 0°-60°    | 5590.6 | 90.2      |
| 0°-90°    | 6196.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6196.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3326 | 3326 | 3326 | 3326 | 3326 |      |
| 5°  | 3451 | 3406 | 3306 | 3207 | 3167 | 331  |
| 15° | 3545 | 3401 | 3093 | 2849 | 2769 | 997  |
| 25° | 3277 | 3033 | 2605 | 2396 | 2342 | 1495 |
| 35° | 2556 | 2332 | 1954 | 1850 | 1894 | 1584 |
| 45° | 1646 | 1512 | 1288 | 1303 | 1382 | 1275 |
| 55° | 999  | 895  | 776  | 815  | 875  | 903  |
| 65° | 582  | 487  | 398  | 398  | 433  | 581  |
| 75° | 264  | 194  | 94   | 45   | 45   | 286  |
| 85° | 50   | 25   | 5    | 0    | 0    | 62   |
| 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°    | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 |
| 2.5°  | 3396.0 | 3391.0 | 3386.0 | 3391.0 | 3386.0 | 3391.0 | 3386.0 | 3386.0 | 3381.0 | 3376.0 | 3376.0 |
| 5°    | 3450.7 | 3445.7 | 3445.7 | 3445.7 | 3440.7 | 3435.7 | 3435.7 | 3430.7 | 3420.9 | 3415.9 | 3405.9 |
| 7.5°  | 3485.4 | 3490.4 | 3490.4 | 3490.4 | 3480.4 | 3480.4 | 3470.6 | 3460.6 | 3450.7 | 3440.7 | 3425.7 |
| 10°   | 3525.3 | 3525.3 | 3520.3 | 3515.3 | 3505.4 | 3500.4 | 3495.4 | 3485.4 | 3470.6 | 3450.7 | 3435.7 |
| 12.5° | 3540.1 | 3540.1 | 3535.1 | 3525.3 | 3520.3 | 3515.3 | 3510.3 | 3495.4 | 3475.6 | 3450.7 | 3430.7 |
| 15°   | 3545.1 | 3535.1 | 3530.3 | 3525.3 | 3515.3 | 3500.4 | 3500.4 | 3480.4 | 3455.6 | 3425.7 | 3400.9 |
| 17.5° | 3505.4 | 3510.3 | 3500.4 | 3490.4 | 3475.6 | 3465.6 | 3450.7 | 3435.7 | 3405.9 | 3371.1 | 3346.2 |
| 20°   | 3455.6 | 3450.7 | 3445.7 | 3430.7 | 3410.9 | 3405.9 | 3391.0 | 3366.2 | 3341.3 | 3301.5 | 3266.7 |
| 22.5° | 3376.0 | 3371.1 | 3361.2 | 3351.2 | 3331.3 | 3321.4 | 3306.5 | 3276.6 | 3241.8 | 3202.1 | 3162.3 |
| 25°   | 3276.6 | 3266.7 | 3251.8 | 3231.9 | 3217.0 | 3207.0 | 3187.1 | 3157.3 | 3117.6 | 3072.7 | 3033.0 |
| 27.5° | 3117.6 | 3132.4 | 3122.6 | 3092.7 | 3077.7 | 3057.9 | 3052.9 | 3013.2 | 2978.3 | 2933.5 | 2888.8 |
| 30°   | 2963.3 | 2963.3 | 2948.5 | 2933.5 | 2908.7 | 2893.8 | 2873.9 | 2844.1 | 2809.3 | 2754.6 | 2719.7 |
| 32.5° | 2769.4 | 2764.5 | 2744.6 | 2739.7 | 2719.7 | 2689.9 | 2685.0 | 2645.2 | 2610.3 | 2570.6 | 2525.8 |
| 35°   | 2555.6 | 2545.8 | 2525.8 | 2510.9 | 2500.9 | 2486.1 | 2471.1 | 2436.4 | 2401.5 | 2361.7 | 2332.0 |
| 37.5° | 2312.0 | 2312.0 | 2307.0 | 2282.2 | 2272.3 | 2262.3 | 2247.4 | 2212.6 | 2192.8 | 2152.9 | 2123.1 |
| 40°   | 2078.4 | 2073.4 | 2058.5 | 2053.5 | 2043.5 | 2028.7 | 2018.7 | 1998.8 | 1969.0 | 1939.1 | 1909.3 |
| 42.5° | 1849.6 | 1854.6 | 1834.7 | 1839.7 | 1819.8 | 1809.9 | 1804.9 | 1775.1 | 1760.1 | 1730.4 | 1705.4 |
| 45°   | 1645.8 | 1640.8 | 1630.8 | 1625.8 | 1616.0 | 1606.0 | 1596.0 | 1581.1 | 1556.3 | 1526.4 | 1511.6 |
| 47.5° | 1456.9 | 1441.9 | 1441.9 | 1436.9 | 1432.0 | 1412.1 | 1407.1 | 1392.2 | 1377.3 | 1347.5 | 1327.5 |
| 50°   | 1277.8 | 1277.8 | 1277.8 | 1272.8 | 1258.0 | 1253.0 | 1243.0 | 1228.1 | 1213.3 | 1193.3 | 1163.4 |
| 52.5° | 1133.6 | 1133.6 | 1133.6 | 1128.7 | 1108.7 | 1103.9 | 1098.9 | 1078.9 | 1059.0 | 1044.2 | 1024.2 |
| 55°   | 999.4  | 1004.3 | 999.4  | 989.5  | 974.5  | 974.5  | 959.6  | 949.7  | 929.8  | 914.8  | 895.0  |
| 57.5° | 885.1  | 885.1  | 875.1  | 870.1  | 860.1  | 855.2  | 845.3  | 835.3  | 810.4  | 795.6  | 770.7  |
| 60°   | 775.7  | 770.7  | 770.7  | 760.7  | 750.7  | 740.9  | 735.9  | 721.0  | 711.0  | 686.2  | 666.3  |
| 62.5° | 676.2  | 676.2  | 666.3  | 666.3  | 646.3  | 646.3  | 641.3  | 626.5  | 611.6  | 586.7  | 576.8  |
| 65°   | 581.8  | 581.8  | 576.8  | 571.8  | 556.9  | 551.9  | 546.9  | 532.0  | 517.1  | 502.2  | 487.3  |
| 67.5° | 497.2  | 497.2  | 487.3  | 482.3  | 472.4  | 467.4  | 457.4  | 447.5  | 432.6  | 417.7  | 402.7  |
| 70°   | 417.7  | 412.7  | 407.7  | 402.7  | 392.8  | 387.9  | 377.9  | 368.0  | 353.0  | 343.0  | 328.2  |
| 72.5° | 338.2  | 338.2  | 333.2  | 323.2  | 318.2  | 313.3  | 308.3  | 298.3  | 283.5  | 268.5  | 258.6  |
| 75°   | 263.5  | 263.5  | 263.5  | 253.6  | 243.6  | 238.6  | 238.6  | 228.8  | 218.8  | 203.9  | 193.9  |
| 77.5° | 203.9  | 198.9  | 193.9  | 193.9  | 183.9  | 178.9  | 174.1  | 169.1  | 154.1  | 149.2  | 139.2  |
| 80°   | 139.2  | 144.2  | 139.2  | 134.2  | 129.2  | 124.3  | 124.3  | 114.4  | 109.4  | 99.4   | 89.5   |
| 82.5° | 94.5   | 89.5   | 89.5   | 84.5   | 84.5   | 79.5   | 79.5   | 69.6   | 64.7   | 59.7   | 54.7   |
| 85°   | 49.7   | 49.7   | 44.7   | 44.7   | 44.7   | 39.8   | 39.8   | 34.8   | 34.8   | 29.8   | 24.9   |
| 87.5° | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 10.0   | 10.0   | 10.0   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 |
| 2.5°  | 3371.1 | 3361.2 | 3356.2 | 3356.2 | 3351.2 | 3346.2 | 3341.3 | 3336.3 | 3326.3 | 3326.3 | 3316.4 |
| 5°    | 3396.0 | 3386.0 | 3381.0 | 3366.2 | 3356.2 | 3356.2 | 3336.3 | 3331.3 | 3316.4 | 3306.5 | 3296.5 |
| 7.5°  | 3415.9 | 3396.0 | 3381.0 | 3366.2 | 3356.2 | 3346.2 | 3326.3 | 3306.5 | 3286.6 | 3266.7 | 3256.8 |
| 10°   | 3415.9 | 3396.0 | 3371.1 | 3346.2 | 3336.3 | 3326.3 | 3301.5 | 3271.7 | 3246.8 | 3226.9 | 3202.1 |
| 12.5° | 3405.9 | 3376.0 | 3346.2 | 3326.3 | 3306.5 | 3291.5 | 3261.7 | 3231.9 | 3202.1 | 3162.3 | 3142.4 |
| 15°   | 3376.0 | 3336.3 | 3306.5 | 3271.7 | 3256.8 | 3231.9 | 3207.0 | 3162.3 | 3127.4 | 3092.7 | 3067.9 |
| 17.5° | 3316.4 | 3266.7 | 3231.9 | 3197.1 | 3172.3 | 3157.3 | 3117.6 | 3077.7 | 3038.0 | 2998.2 | 2968.3 |
| 20°   | 3226.9 | 3182.1 | 3142.4 | 3097.6 | 3077.7 | 3057.9 | 3008.2 | 2968.3 | 2928.6 | 2883.8 | 2854.0 |
| 22.5° | 3117.6 | 3072.7 | 3018.0 | 2983.3 | 2953.5 | 2928.6 | 2883.8 | 2839.1 | 2799.3 | 2759.6 | 2719.7 |
| 25°   | 2983.3 | 2938.5 | 2888.8 | 2834.1 | 2814.2 | 2789.4 | 2739.7 | 2694.9 | 2650.2 | 2605.3 | 2570.6 |
| 27.5° | 2839.1 | 2779.4 | 2739.7 | 2680.0 | 2660.0 | 2635.2 | 2580.5 | 2530.8 | 2491.1 | 2456.2 | 2416.4 |
| 30°   | 2665.0 | 2620.3 | 2565.6 | 2510.9 | 2491.1 | 2466.2 | 2421.4 | 2376.7 | 2336.9 | 2297.1 | 2257.3 |
| 32.5° | 2476.1 | 2431.4 | 2376.7 | 2336.9 | 2307.0 | 2287.2 | 2242.5 | 2202.6 | 2162.9 | 2123.1 | 2088.2 |
| 35°   | 2277.3 | 2227.5 | 2187.8 | 2147.9 | 2123.1 | 2098.2 | 2053.5 | 2018.7 | 1988.8 | 1954.0 | 1919.3 |
| 37.5° | 2073.4 | 2038.5 | 1998.8 | 1954.0 | 1929.2 | 1909.3 | 1874.5 | 1834.7 | 1809.9 | 1780.1 | 1755.2 |
| 40°   | 1874.5 | 1834.7 | 1799.9 | 1760.1 | 1740.2 | 1725.4 | 1690.5 | 1660.7 | 1635.8 | 1611.0 | 1596.0 |
| 42.5° | 1670.7 | 1635.8 | 1601.0 | 1576.1 | 1561.3 | 1546.3 | 1521.4 | 1486.7 | 1471.7 | 1446.9 | 1432.0 |
| 45°   | 1481.7 | 1451.9 | 1427.0 | 1392.2 | 1382.2 | 1372.3 | 1342.5 | 1317.6 | 1302.7 | 1287.8 | 1277.8 |
| 47.5° | 1302.7 | 1282.8 | 1253.0 | 1233.1 | 1218.1 | 1208.3 | 1188.3 | 1168.4 | 1153.6 | 1143.6 | 1133.6 |
| 50°   | 1148.6 | 1123.7 | 1103.9 | 1083.9 | 1074.0 | 1059.0 | 1039.2 | 1029.2 | 1019.3 | 1009.3 | 1009.3 |
| 52.5° | 1004.3 | 979.5  | 959.6  | 944.7  | 934.8  | 924.8  | 909.9  | 904.9  | 895.0  | 895.0  | 890.0  |
| 55°   | 870.1  | 855.2  | 835.3  | 815.4  | 810.4  | 805.4  | 795.6  | 785.6  | 780.6  | 775.7  | 780.6  |
| 57.5° | 755.7  | 740.9  | 721.0  | 706.0  | 701.0  | 696.0  | 691.2  | 681.2  | 676.2  | 676.2  | 676.2  |
| 60°   | 651.3  | 636.5  | 621.5  | 606.6  | 606.6  | 596.6  | 591.6  | 586.7  | 581.8  | 576.8  | 576.8  |
| 62.5° | 556.9  | 541.9  | 527.1  | 517.1  | 512.1  | 507.1  | 497.2  | 492.2  | 487.3  | 487.3  | 482.3  |
| 65°   | 472.4  | 452.4  | 447.5  | 432.6  | 427.6  | 422.7  | 417.7  | 407.7  | 402.7  | 397.7  | 392.8  |
| 67.5° | 387.9  | 377.9  | 363.0  | 353.0  | 348.0  | 343.0  | 338.2  | 328.2  | 323.2  | 318.2  | 308.3  |
| 70°   | 313.3  | 303.3  | 293.3  | 283.5  | 278.5  | 273.5  | 263.5  | 253.6  | 248.6  | 238.6  | 223.8  |
| 72.5° | 243.6  | 233.6  | 223.8  | 213.8  | 208.8  | 203.9  | 193.9  | 183.9  | 174.1  | 164.1  | 154.1  |
| 75°   | 183.9  | 174.1  | 159.1  | 149.2  | 144.2  | 144.2  | 129.2  | 119.4  | 109.4  | 94.5   | 84.5   |
| 77.5° | 129.2  | 114.4  | 109.4  | 99.4   | 94.5   | 84.5   | 74.6   | 64.7   | 54.7   | 49.7   | 39.8   |
| 80°   | 84.5   | 74.6   | 64.7   | 59.7   | 54.7   | 49.7   | 44.7   | 34.8   | 24.9   | 19.9   | 14.9   |
| 82.5° | 49.7   | 44.7   | 39.8   | 34.8   | 29.8   | 24.9   | 19.9   | 19.9   | 14.9   | 10.0   | 5.0    |
| 85°   | 24.9   | 19.9   | 14.9   | 14.9   | 10.0   | 10.0   | 10.0   | 5.0    | 5.0    | 5.0    | 5.0    |
| 87.5° | 10.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 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: P585235

CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 |
| 2.5°  | 3311.5 | 3306.5 | 3301.5 | 3296.5 | 3296.5 | 3286.6 | 3286.6 | 3281.6 | 3271.7 | 3266.7 | 3266.7 |
| 5°    | 3281.6 | 3266.7 | 3256.8 | 3251.8 | 3246.8 | 3231.9 | 3226.9 | 3217.0 | 3207.0 | 3197.1 | 3192.1 |
| 7.5°  | 3236.8 | 3212.0 | 3202.1 | 3197.1 | 3182.1 | 3167.3 | 3157.3 | 3142.4 | 3127.4 | 3112.6 | 3107.6 |
| 10°   | 3182.1 | 3157.3 | 3132.4 | 3122.6 | 3107.6 | 3097.6 | 3077.7 | 3057.9 | 3042.9 | 3028.0 | 3013.2 |
| 12.5° | 3112.6 | 3082.7 | 3057.9 | 3047.9 | 3033.0 | 3013.2 | 2983.3 | 2973.3 | 2948.5 | 2938.5 | 2918.6 |
| 15°   | 3033.0 | 2998.2 | 2973.3 | 2958.5 | 2943.5 | 2913.6 | 2893.8 | 2873.9 | 2849.1 | 2839.1 | 2819.2 |
| 17.5° | 2933.5 | 2893.8 | 2868.9 | 2854.0 | 2844.1 | 2819.2 | 2789.4 | 2764.5 | 2739.7 | 2729.7 | 2714.7 |
| 20°   | 2814.2 | 2789.4 | 2754.6 | 2739.7 | 2729.7 | 2699.9 | 2670.0 | 2660.0 | 2640.2 | 2620.3 | 2605.3 |
| 22.5° | 2680.0 | 2655.2 | 2620.3 | 2605.3 | 2600.5 | 2575.6 | 2550.6 | 2535.8 | 2520.9 | 2505.9 | 2491.1 |
| 25°   | 2540.8 | 2510.9 | 2481.1 | 2471.1 | 2461.2 | 2441.4 | 2421.4 | 2411.5 | 2396.5 | 2386.7 | 2376.7 |
| 27.5° | 2391.6 | 2361.7 | 2336.9 | 2322.0 | 2312.0 | 2297.1 | 2287.2 | 2277.3 | 2267.3 | 2257.3 | 2252.3 |
| 30°   | 2232.5 | 2202.6 | 2182.8 | 2172.8 | 2162.9 | 2157.9 | 2142.9 | 2138.1 | 2133.1 | 2123.1 | 2128.1 |
| 32.5° | 2073.4 | 2048.5 | 2028.7 | 2013.7 | 2013.7 | 2003.8 | 1998.8 | 1998.8 | 1993.8 | 1993.8 | 1993.8 |
| 35°   | 1899.3 | 1884.4 | 1869.5 | 1864.6 | 1859.6 | 1854.6 | 1849.6 | 1854.6 | 1849.6 | 1854.6 | 1859.6 |
| 37.5° | 1740.2 | 1725.4 | 1715.4 | 1710.4 | 1705.4 | 1710.4 | 1705.4 | 1705.4 | 1710.4 | 1720.4 | 1725.4 |
| 40°   | 1576.1 | 1566.3 | 1556.3 | 1561.3 | 1556.3 | 1556.3 | 1556.3 | 1571.1 | 1576.1 | 1581.1 | 1586.1 |
| 42.5° | 1422.0 | 1412.1 | 1407.1 | 1407.1 | 1412.1 | 1407.1 | 1417.1 | 1422.0 | 1432.0 | 1446.9 | 1456.9 |
| 45°   | 1272.8 | 1267.9 | 1267.9 | 1272.8 | 1267.9 | 1277.8 | 1277.8 | 1287.8 | 1302.7 | 1312.7 | 1322.6 |
| 47.5° | 1133.6 | 1133.6 | 1133.6 | 1138.6 | 1138.6 | 1143.6 | 1153.6 | 1158.6 | 1168.4 | 1178.4 | 1188.3 |
| 50°   | 1004.3 | 1009.3 | 1014.3 | 1014.3 | 1014.3 | 1024.2 | 1034.2 | 1039.2 | 1044.2 | 1049.2 | 1064.0 |
| 52.5° | 890.0  | 895.0  | 895.0  | 900.0  | 904.9  | 909.9  | 914.8  | 924.8  | 929.8  | 939.8  | 944.7  |
| 55°   | 780.6  | 780.6  | 790.6  | 795.6  | 795.6  | 795.6  | 805.4  | 805.4  | 815.4  | 820.4  | 830.4  |
| 57.5° | 676.2  | 681.2  | 681.2  | 686.2  | 686.2  | 691.2  | 696.0  | 701.0  | 706.0  | 711.0  | 716.0  |
| 60°   | 576.8  | 576.8  | 576.8  | 581.8  | 586.7  | 591.6  | 586.7  | 596.6  | 596.6  | 606.6  | 611.6  |
| 62.5° | 482.3  | 487.3  | 487.3  | 487.3  | 487.3  | 487.3  | 487.3  | 492.2  | 497.2  | 502.2  | 507.1  |
| 65°   | 392.8  | 392.8  | 392.8  | 387.9  | 392.8  | 387.9  | 392.8  | 397.7  | 397.7  | 402.7  | 407.7  |
| 67.5° | 303.3  | 303.3  | 293.3  | 293.3  | 298.3  | 298.3  | 298.3  | 298.3  | 293.3  | 303.3  | 303.3  |
| 70°   | 218.8  | 213.8  | 208.8  | 203.9  | 203.9  | 198.9  | 198.9  | 193.9  | 193.9  | 193.9  | 193.9  |
| 72.5° | 144.2  | 134.2  | 124.3  | 119.4  | 114.4  | 114.4  | 104.4  | 99.4   | 104.4  | 104.4  | 104.4  |
| 75°   | 74.6   | 64.7   | 59.7   | 54.7   | 49.7   | 49.7   | 44.7   | 44.7   | 44.7   | 44.7   | 44.7   |
| 77.5° | 29.8   | 24.9   | 19.9   | 19.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   |
| 80°   | 10.0   | 10.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 82.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 85°   | 5.0    | 0.0    | 0.0    | 5.0    | 0.0    | 5.0    | 5.0    | 5.0    | 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    |





TEST NUMBER: P585235

CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 | 3326.3 |
| 2.5°  | 3261.7 | 3261.7 | 3256.8 | 3261.7 | 3251.8 | 3256.8 | 3251.8 | 3251.8 |
| 5°    | 3187.1 | 3177.2 | 3177.2 | 3177.2 | 3172.3 | 3172.3 | 3167.3 | 3167.3 |
| 7.5°  | 3097.6 | 3092.7 | 3087.7 | 3082.7 | 3077.7 | 3072.7 | 3072.7 | 3072.7 |
| 10°   | 3008.2 | 2998.2 | 2998.2 | 2993.2 | 2983.3 | 2978.3 | 2978.3 | 2978.3 |
| 12.5° | 2903.8 | 2898.8 | 2893.8 | 2893.8 | 2873.9 | 2878.8 | 2873.9 | 2873.9 |
| 15°   | 2804.3 | 2799.3 | 2799.3 | 2784.4 | 2774.4 | 2774.4 | 2774.4 | 2769.4 |
| 17.5° | 2699.9 | 2694.9 | 2689.9 | 2680.0 | 2670.0 | 2670.0 | 2665.0 | 2670.0 |
| 20°   | 2590.5 | 2585.5 | 2575.6 | 2575.6 | 2570.6 | 2565.6 | 2555.6 | 2560.6 |
| 22.5° | 2481.1 | 2471.1 | 2466.2 | 2466.2 | 2461.2 | 2461.2 | 2451.2 | 2451.2 |
| 25°   | 2366.7 | 2361.7 | 2356.8 | 2361.7 | 2351.8 | 2351.8 | 2341.9 | 2341.9 |
| 27.5° | 2247.4 | 2242.5 | 2242.5 | 2242.5 | 2237.5 | 2242.5 | 2237.5 | 2237.5 |
| 30°   | 2128.1 | 2128.1 | 2123.1 | 2123.1 | 2128.1 | 2123.1 | 2128.1 | 2133.1 |
| 32.5° | 1998.8 | 1998.8 | 2003.8 | 2003.8 | 2008.7 | 2008.7 | 2008.7 | 2008.7 |
| 35°   | 1864.6 | 1874.5 | 1874.5 | 1879.5 | 1884.4 | 1889.4 | 1889.4 | 1894.4 |
| 37.5° | 1740.2 | 1745.2 | 1750.2 | 1755.2 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 40°   | 1606.0 | 1611.0 | 1621.0 | 1616.0 | 1635.8 | 1640.8 | 1635.8 | 1635.8 |
| 42.5° | 1466.8 | 1476.7 | 1481.7 | 1491.6 | 1496.6 | 1506.6 | 1511.6 | 1511.6 |
| 45°   | 1337.5 | 1342.5 | 1352.4 | 1362.4 | 1367.4 | 1382.2 | 1382.2 | 1382.2 |
| 47.5° | 1203.3 | 1213.3 | 1218.1 | 1228.1 | 1233.1 | 1248.0 | 1253.0 | 1248.0 |
| 50°   | 1074.0 | 1083.9 | 1093.9 | 1093.9 | 1108.7 | 1113.7 | 1123.7 | 1128.7 |
| 52.5° | 949.7  | 954.6  | 964.6  | 969.5  | 979.5  | 989.5  | 994.5  | 999.4  |
| 55°   | 830.4  | 835.3  | 845.3  | 845.3  | 860.1  | 865.1  | 875.1  | 875.1  |
| 57.5° | 721.0  | 725.9  | 735.9  | 730.9  | 740.9  | 750.7  | 750.7  | 745.9  |
| 60°   | 616.5  | 616.5  | 616.5  | 626.5  | 631.5  | 636.5  | 641.3  | 641.3  |
| 62.5° | 507.1  | 517.1  | 522.1  | 522.1  | 527.1  | 532.0  | 532.0  | 527.1  |
| 65°   | 407.7  | 417.7  | 422.7  | 422.7  | 427.6  | 427.6  | 427.6  | 432.6  |
| 67.5° | 308.3  | 308.3  | 308.3  | 313.3  | 308.3  | 308.3  | 308.3  | 308.3  |
| 70°   | 193.9  | 193.9  | 193.9  | 193.9  | 188.9  | 193.9  | 193.9  | 198.9  |
| 72.5° | 104.4  | 104.4  | 104.4  | 104.4  | 104.4  | 104.4  | 104.4  | 104.4  |
| 75°   | 44.7   | 44.7   | 44.7   | 49.7   | 44.7   | 44.7   | 44.7   | 44.7   |
| 77.5° | 19.9   | 14.9   | 19.9   | 19.9   | 14.9   | 14.9   | 14.9   | 14.9   |
| 80°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 82.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 85°   | 0.0    | 5.0    | 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    |

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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