

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: P593923

Luminaire Tested: **HCC8W80D010BZ-HM86080950-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593923  
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: HCC8W80D010BZ-HM86080950-81WWWB  
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**

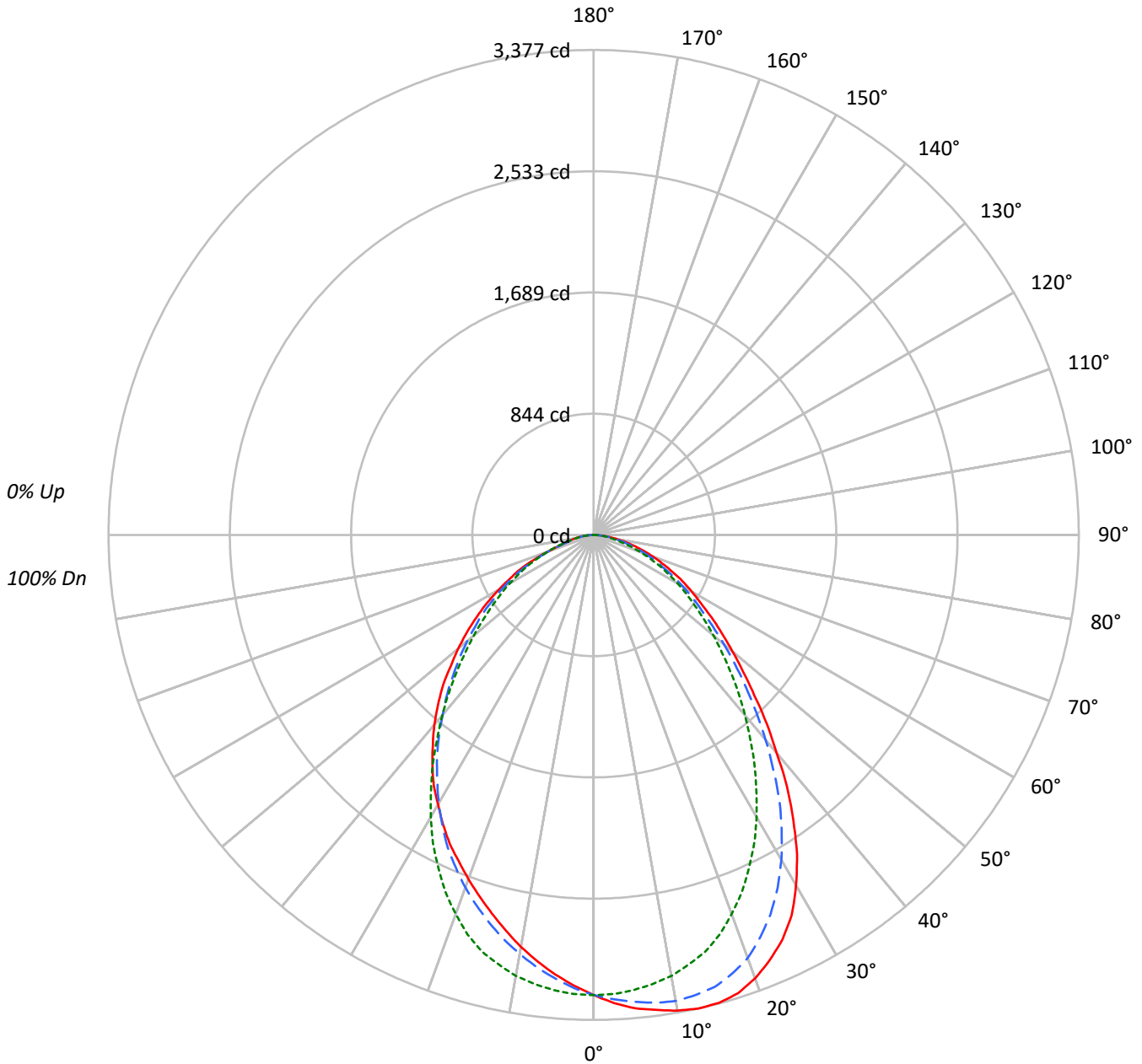
Lumens per Lamp: N/A  
Luminaire Lumens: 6444.5 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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  |     |     |    |    |    |  |  |  |  |   |
| 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°  | 98806  | 98806 | 98806 |
| 5°  | 102427 | 98480 | 95100 |
| 10° | 105321 | 97625 | 91209 |
| 15° | 107667 | 95900 | 87182 |
| 20° | 107838 | 92155 | 83643 |
| 25° | 105767 | 87030 | 80681 |
| 30° | 100315 | 80706 | 77142 |
| 35° | 91152  | 73504 | 73673 |
| 40° | 79699  | 65960 | 69438 |
| 45° | 69073  | 58755 | 64707 |
| 50° | 60484  | 52185 | 58959 |
| 55° | 53837  | 46246 | 53342 |
| 60° | 48561  | 41543 | 46877 |
| 65° | 43837  | 36534 | 40846 |
| 70° | 39400  | 30780 | 30366 |
| 75° | 34706  | 24412 | 22780 |
| 80° | 29087  | 20209 | 21824 |
| 85° | 22538  | 17726 | 19318 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 302.3  | 4.7       |
| 10°-20°   | 851.4  | 13.2      |
| 20°-30°   | 1216.8 | 18.9      |
| 30°-40°   | 1292.9 | 20.1      |
| 40°-50°   | 1113.1 | 17.3      |
| 50°-60°   | 832.2  | 12.9      |
| 60°-70°   | 530.8  | 8.2       |
| 70°-80°   | 241.6  | 3.7       |
| 80°-90°   | 63.4   | 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°    | 2370.5 | 36.8      |
| 0°-40°    | 3663.3 | 56.8      |
| 0°-60°    | 5608.7 | 87.0      |
| 0°-90°    | 6444.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6444.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3204 | 3204 | 3204 | 3204 | 3204 |      |
| 5°  | 3309 | 3263 | 3182 | 3100 | 3072 | 317  |
| 15° | 3373 | 3259 | 3004 | 2799 | 2731 | 950  |
| 25° | 3109 | 2913 | 2558 | 2403 | 2371 | 1423 |
| 35° | 2421 | 2253 | 1953 | 1902 | 1957 | 1508 |
| 45° | 1584 | 1497 | 1347 | 1384 | 1484 | 1231 |
| 55° | 1001 | 920  | 860  | 933  | 992  | 900  |
| 65° | 601  | 533  | 501  | 523  | 560  | 599  |
| 75° | 291  | 250  | 205  | 187  | 191  | 310  |
| 85° | 64   | 55   | 50   | 55   | 55   | 77   |
| 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°    | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5°  | 3263.4 | 3254.3 | 3258.8 | 3254.3 | 3258.8 | 3258.8 | 3249.8 | 3249.8 | 3249.8 | 3249.8 | 3236.1 |
| 5°    | 3309.0 | 3304.3 | 3304.3 | 3299.8 | 3295.3 | 3299.8 | 3295.3 | 3290.7 | 3281.6 | 3277.1 | 3263.4 |
| 7.5°  | 3336.2 | 3336.2 | 3336.2 | 3336.2 | 3331.7 | 3327.2 | 3322.5 | 3313.5 | 3304.3 | 3295.3 | 3286.2 |
| 10°   | 3363.6 | 3368.1 | 3363.6 | 3359.0 | 3354.4 | 3345.4 | 3340.7 | 3331.7 | 3318.0 | 3304.3 | 3295.3 |
| 12.5° | 3377.2 | 3377.2 | 3372.6 | 3372.6 | 3363.6 | 3359.0 | 3345.4 | 3331.7 | 3318.0 | 3304.3 | 3281.6 |
| 15°   | 3372.6 | 3372.6 | 3368.1 | 3363.6 | 3349.9 | 3345.4 | 3336.2 | 3322.5 | 3299.8 | 3281.6 | 3258.8 |
| 17.5° | 3345.4 | 3340.7 | 3331.7 | 3331.7 | 3313.5 | 3309.0 | 3299.8 | 3281.6 | 3258.8 | 3231.6 | 3204.2 |
| 20°   | 3286.2 | 3286.2 | 3281.6 | 3277.1 | 3258.8 | 3245.3 | 3236.1 | 3213.4 | 3195.2 | 3163.3 | 3136.0 |
| 22.5° | 3204.2 | 3213.4 | 3204.2 | 3195.2 | 3172.4 | 3167.9 | 3154.2 | 3126.8 | 3099.6 | 3063.1 | 3031.2 |
| 25°   | 3108.6 | 3104.1 | 3099.6 | 3090.4 | 3072.3 | 3063.1 | 3044.9 | 3017.7 | 2990.3 | 2949.3 | 2912.9 |
| 27.5° | 2985.8 | 2967.6 | 2967.6 | 2949.3 | 2935.8 | 2922.1 | 2912.9 | 2885.6 | 2849.2 | 2817.3 | 2771.8 |
| 30°   | 2817.3 | 2822.0 | 2799.1 | 2794.6 | 2771.8 | 2762.8 | 2744.6 | 2717.2 | 2685.4 | 2649.0 | 2612.6 |
| 32.5° | 2635.3 | 2621.6 | 2621.6 | 2603.4 | 2585.2 | 2571.6 | 2567.1 | 2535.2 | 2507.8 | 2471.5 | 2435.1 |
| 35°   | 2421.4 | 2421.4 | 2407.7 | 2403.2 | 2385.0 | 2375.9 | 2362.2 | 2344.0 | 2312.1 | 2280.3 | 2253.0 |
| 37.5° | 2212.0 | 2202.9 | 2198.3 | 2189.3 | 2175.6 | 2162.0 | 2162.0 | 2130.1 | 2125.6 | 2089.1 | 2052.7 |
| 40°   | 1979.9 | 1989.0 | 1979.9 | 1966.2 | 1961.7 | 1952.6 | 1948.1 | 1929.9 | 1916.2 | 1884.3 | 1861.5 |
| 42.5° | 1784.2 | 1775.1 | 1775.1 | 1770.5 | 1752.3 | 1752.3 | 1743.2 | 1734.2 | 1711.3 | 1702.3 | 1674.9 |
| 45°   | 1583.9 | 1593.0 | 1579.3 | 1583.9 | 1565.7 | 1565.7 | 1565.7 | 1547.5 | 1529.3 | 1515.6 | 1497.4 |
| 47.5° | 1411.0 | 1415.5 | 1415.5 | 1401.8 | 1397.3 | 1397.3 | 1388.2 | 1379.1 | 1365.4 | 1347.3 | 1333.6 |
| 50°   | 1260.8 | 1265.3 | 1256.2 | 1251.7 | 1242.5 | 1238.0 | 1238.0 | 1219.8 | 1210.6 | 1192.4 | 1183.4 |
| 52.5° | 1124.2 | 1124.2 | 1119.7 | 1119.7 | 1106.0 | 1106.0 | 1096.9 | 1083.3 | 1074.1 | 1065.1 | 1042.3 |
| 55°   | 1001.4 | 1001.4 | 996.7  | 992.2  | 992.2  | 978.5  | 974.0  | 960.4  | 951.3  | 933.0  | 919.5  |
| 57.5° | 883.0  | 887.6  | 883.0  | 878.4  | 873.9  | 869.3  | 860.2  | 846.6  | 837.5  | 823.9  | 814.7  |
| 60°   | 787.4  | 787.4  | 782.8  | 778.3  | 769.2  | 764.6  | 760.1  | 751.0  | 737.3  | 728.3  | 714.6  |
| 62.5° | 696.4  | 691.9  | 687.2  | 682.7  | 673.6  | 673.6  | 664.5  | 655.4  | 641.7  | 632.7  | 623.5  |
| 65°   | 600.8  | 600.8  | 596.3  | 596.3  | 591.6  | 582.6  | 578.1  | 573.5  | 555.3  | 550.7  | 532.6  |
| 67.5° | 514.4  | 518.9  | 509.7  | 509.7  | 500.7  | 500.7  | 496.2  | 482.5  | 477.9  | 468.8  | 459.7  |
| 70°   | 437.0  | 437.0  | 437.0  | 432.4  | 423.3  | 418.8  | 414.1  | 405.1  | 400.6  | 391.4  | 382.4  |
| 72.5° | 359.6  | 359.6  | 355.0  | 355.0  | 350.5  | 345.9  | 341.4  | 332.2  | 332.2  | 323.2  | 314.0  |
| 75°   | 291.3  | 291.3  | 286.8  | 282.1  | 277.6  | 277.6  | 273.1  | 268.6  | 259.4  | 254.9  | 250.3  |
| 77.5° | 223.1  | 223.1  | 223.1  | 218.4  | 213.9  | 213.9  | 213.9  | 204.9  | 195.7  | 195.7  | 191.2  |
| 80°   | 163.8  | 163.8  | 159.3  | 159.3  | 154.8  | 154.8  | 154.8  | 150.2  | 145.7  | 141.1  | 136.5  |
| 82.5° | 109.3  | 109.3  | 109.3  | 109.3  | 104.6  | 104.6  | 104.6  | 100.1  | 95.6   | 95.6   | 95.6   |
| 85°   | 63.7   | 63.7   | 63.7   | 63.7   | 59.2   | 59.2   | 59.2   | 59.2   | 59.2   | 54.6   | 54.6   |
| 87.5° | 27.3   | 22.7   | 27.3   | 22.7   | 27.3   | 22.7   | 27.3   | 22.7   | 22.7   | 22.7   | 22.7   |
| 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°    | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5°  | 3240.6 | 3236.1 | 3231.6 | 3226.9 | 3226.9 | 3222.4 | 3213.4 | 3208.8 | 3204.2 | 3199.7 | 3199.7 |
| 5°    | 3258.8 | 3254.3 | 3245.3 | 3236.1 | 3231.6 | 3222.4 | 3213.4 | 3204.2 | 3195.2 | 3181.5 | 3176.9 |
| 7.5°  | 3272.5 | 3258.8 | 3249.8 | 3231.6 | 3226.9 | 3217.9 | 3204.2 | 3190.6 | 3172.4 | 3154.2 | 3140.5 |
| 10°   | 3272.5 | 3254.3 | 3240.6 | 3217.9 | 3208.8 | 3199.7 | 3181.5 | 3158.7 | 3136.0 | 3117.8 | 3095.0 |
| 12.5° | 3263.4 | 3240.6 | 3217.9 | 3195.2 | 3181.5 | 3167.9 | 3140.5 | 3117.8 | 3090.4 | 3063.1 | 3044.9 |
| 15°   | 3231.6 | 3204.2 | 3176.9 | 3149.7 | 3136.0 | 3117.8 | 3090.4 | 3058.6 | 3031.2 | 3004.0 | 2972.1 |
| 17.5° | 3172.4 | 3145.0 | 3113.2 | 3081.4 | 3063.1 | 3049.5 | 3008.5 | 2985.8 | 2944.8 | 2917.4 | 2890.2 |
| 20°   | 3095.0 | 3063.1 | 3022.2 | 2990.3 | 2967.6 | 2954.0 | 2922.1 | 2881.1 | 2849.2 | 2808.3 | 2781.0 |
| 22.5° | 2994.9 | 2954.0 | 2912.9 | 2881.1 | 2858.4 | 2840.2 | 2799.1 | 2758.2 | 2730.9 | 2694.5 | 2662.6 |
| 25°   | 2876.5 | 2835.5 | 2794.6 | 2749.1 | 2726.4 | 2708.2 | 2671.7 | 2635.3 | 2598.9 | 2557.9 | 2530.7 |
| 27.5° | 2735.4 | 2689.9 | 2653.5 | 2612.6 | 2589.8 | 2562.5 | 2521.5 | 2485.1 | 2448.7 | 2421.4 | 2385.0 |
| 30°   | 2580.7 | 2530.7 | 2494.2 | 2453.3 | 2430.4 | 2407.7 | 2366.8 | 2330.3 | 2298.5 | 2266.6 | 2248.4 |
| 32.5° | 2394.1 | 2357.7 | 2321.3 | 2280.3 | 2262.1 | 2248.4 | 2207.5 | 2171.1 | 2134.6 | 2107.4 | 2093.7 |
| 35°   | 2216.5 | 2175.6 | 2143.8 | 2107.4 | 2084.6 | 2070.9 | 2034.5 | 2002.6 | 1984.4 | 1952.6 | 1934.4 |
| 37.5° | 2030.0 | 1998.1 | 1961.7 | 1925.2 | 1911.7 | 1898.0 | 1870.7 | 1838.8 | 1811.4 | 1788.7 | 1779.6 |
| 40°   | 1834.3 | 1806.9 | 1775.1 | 1752.3 | 1738.7 | 1725.0 | 1702.3 | 1679.5 | 1661.3 | 1638.6 | 1629.4 |
| 42.5° | 1647.6 | 1629.4 | 1602.2 | 1574.8 | 1561.2 | 1556.6 | 1529.3 | 1511.1 | 1501.9 | 1492.9 | 1483.8 |
| 45°   | 1479.2 | 1451.9 | 1433.7 | 1415.5 | 1401.8 | 1392.8 | 1379.1 | 1365.4 | 1356.3 | 1347.3 | 1338.1 |
| 47.5° | 1315.4 | 1292.6 | 1274.4 | 1260.8 | 1247.1 | 1242.5 | 1233.5 | 1219.8 | 1210.6 | 1210.6 | 1210.6 |
| 50°   | 1165.2 | 1147.0 | 1128.7 | 1119.7 | 1115.2 | 1106.0 | 1096.9 | 1092.3 | 1087.8 | 1087.8 | 1087.8 |
| 52.5° | 1033.2 | 1014.9 | 1001.4 | 992.2  | 992.2  | 983.1  | 974.0  | 969.5  | 969.5  | 969.5  | 969.5  |
| 55°   | 910.3  | 896.6  | 887.6  | 878.4  | 869.3  | 864.8  | 864.8  | 864.8  | 860.2  | 860.2  | 864.8  |
| 57.5° | 801.0  | 792.0  | 778.3  | 769.2  | 764.6  | 764.6  | 760.1  | 755.5  | 760.1  | 764.6  | 769.2  |
| 60°   | 700.9  | 691.9  | 687.2  | 673.6  | 673.6  | 673.6  | 669.1  | 669.1  | 669.1  | 673.6  | 678.2  |
| 62.5° | 610.0  | 605.3  | 596.3  | 591.6  | 587.1  | 587.1  | 582.6  | 582.6  | 582.6  | 582.6  | 587.1  |
| 65°   | 527.9  | 518.9  | 509.7  | 509.7  | 509.7  | 505.2  | 505.2  | 496.2  | 500.7  | 500.7  | 496.2  |
| 67.5° | 450.6  | 441.5  | 437.0  | 432.4  | 427.8  | 427.8  | 423.3  | 418.8  | 414.1  | 414.1  | 414.1  |
| 70°   | 377.7  | 368.7  | 368.7  | 359.6  | 359.6  | 355.0  | 350.5  | 350.5  | 345.9  | 341.4  | 336.8  |
| 72.5° | 305.0  | 300.3  | 295.8  | 291.3  | 291.3  | 291.3  | 286.8  | 282.1  | 277.6  | 273.1  | 264.0  |
| 75°   | 241.2  | 241.2  | 232.1  | 227.6  | 227.6  | 223.1  | 218.4  | 213.9  | 209.4  | 204.9  | 200.2  |
| 77.5° | 186.6  | 182.0  | 173.0  | 168.4  | 168.4  | 168.4  | 163.8  | 159.3  | 154.8  | 150.2  | 145.7  |
| 80°   | 136.5  | 132.0  | 127.5  | 122.9  | 122.9  | 122.9  | 118.3  | 118.3  | 113.8  | 113.8  | 113.8  |
| 82.5° | 91.1   | 91.1   | 86.4   | 86.4   | 86.4   | 86.4   | 81.9   | 81.9   | 81.9   | 81.9   | 81.9   |
| 85°   | 54.6   | 54.6   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   |
| 87.5° | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   |
| 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: P593923

CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5°  | 3190.6 | 3190.6 | 3181.5 | 3176.9 | 3172.4 | 3176.9 | 3167.9 | 3163.3 | 3158.7 | 3158.7 | 3154.2 |
| 5°    | 3163.3 | 3158.7 | 3140.5 | 3136.0 | 3131.5 | 3126.8 | 3117.8 | 3108.6 | 3099.6 | 3095.0 | 3090.4 |
| 7.5°  | 3126.8 | 3113.2 | 3095.0 | 3090.4 | 3085.9 | 3072.3 | 3058.6 | 3049.5 | 3035.9 | 3031.2 | 3022.2 |
| 10°   | 3076.8 | 3058.6 | 3044.9 | 3031.2 | 3022.2 | 3008.5 | 2994.9 | 2981.2 | 2963.0 | 2958.5 | 2944.8 |
| 12.5° | 3017.7 | 2994.9 | 2967.6 | 2963.0 | 2949.3 | 2931.1 | 2912.9 | 2899.3 | 2885.6 | 2876.5 | 2862.9 |
| 15°   | 2944.8 | 2922.1 | 2894.7 | 2881.1 | 2867.4 | 2853.8 | 2831.0 | 2812.8 | 2799.1 | 2785.5 | 2771.8 |
| 17.5° | 2858.4 | 2831.0 | 2808.3 | 2794.6 | 2785.5 | 2762.8 | 2744.6 | 2721.7 | 2708.2 | 2694.5 | 2680.8 |
| 20°   | 2753.6 | 2730.9 | 2699.0 | 2685.4 | 2680.8 | 2662.6 | 2639.8 | 2630.8 | 2612.6 | 2598.9 | 2589.8 |
| 22.5° | 2635.3 | 2612.6 | 2585.2 | 2576.1 | 2557.9 | 2548.9 | 2526.0 | 2517.0 | 2507.8 | 2494.2 | 2489.6 |
| 25°   | 2503.3 | 2480.6 | 2457.8 | 2453.3 | 2439.6 | 2430.4 | 2416.9 | 2403.2 | 2403.2 | 2389.5 | 2389.5 |
| 27.5° | 2366.8 | 2344.0 | 2325.8 | 2316.6 | 2312.1 | 2303.1 | 2289.4 | 2284.9 | 2280.3 | 2275.7 | 2275.7 |
| 30°   | 2221.2 | 2193.8 | 2184.7 | 2180.2 | 2175.6 | 2166.5 | 2162.0 | 2152.8 | 2157.4 | 2162.0 | 2157.4 |
| 32.5° | 2066.4 | 2057.3 | 2039.0 | 2030.0 | 2034.5 | 2030.0 | 2020.8 | 2030.0 | 2025.5 | 2034.5 | 2039.0 |
| 35°   | 1916.2 | 1907.0 | 1898.0 | 1898.0 | 1888.8 | 1888.8 | 1888.8 | 1893.4 | 1902.5 | 1907.0 | 1916.2 |
| 37.5° | 1770.5 | 1756.9 | 1752.3 | 1747.7 | 1752.3 | 1752.3 | 1752.3 | 1761.4 | 1770.5 | 1779.6 | 1793.2 |
| 40°   | 1615.7 | 1606.7 | 1606.7 | 1606.7 | 1606.7 | 1620.4 | 1615.7 | 1624.9 | 1633.9 | 1647.6 | 1661.3 |
| 42.5° | 1470.1 | 1470.1 | 1474.7 | 1474.7 | 1474.7 | 1474.7 | 1483.8 | 1497.4 | 1511.1 | 1524.8 | 1538.4 |
| 45°   | 1333.6 | 1333.6 | 1333.6 | 1342.7 | 1342.7 | 1347.3 | 1365.4 | 1374.6 | 1383.6 | 1397.3 | 1411.0 |
| 47.5° | 1206.1 | 1206.1 | 1210.6 | 1215.3 | 1219.8 | 1229.0 | 1238.0 | 1251.7 | 1265.3 | 1274.4 | 1288.0 |
| 50°   | 1087.8 | 1092.3 | 1101.5 | 1110.5 | 1110.5 | 1115.2 | 1128.7 | 1137.9 | 1147.0 | 1160.6 | 1165.2 |
| 52.5° | 974.0  | 983.1  | 992.2  | 996.7  | 1001.4 | 1010.4 | 1014.9 | 1028.6 | 1033.2 | 1046.8 | 1051.4 |
| 55°   | 869.3  | 873.9  | 887.6  | 892.1  | 892.1  | 901.1  | 910.3  | 919.5  | 933.0  | 933.0  | 942.2  |
| 57.5° | 773.8  | 778.3  | 787.4  | 792.0  | 787.4  | 801.0  | 805.7  | 814.7  | 819.2  | 828.4  | 832.9  |
| 60°   | 678.2  | 687.2  | 691.9  | 691.9  | 696.4  | 700.9  | 710.1  | 710.1  | 719.1  | 728.3  | 728.3  |
| 62.5° | 587.1  | 591.6  | 596.3  | 600.8  | 605.3  | 600.8  | 614.5  | 614.5  | 623.5  | 628.1  | 637.2  |
| 65°   | 500.7  | 505.2  | 505.2  | 509.7  | 509.7  | 514.4  | 514.4  | 518.9  | 523.4  | 532.6  | 537.1  |
| 67.5° | 414.1  | 414.1  | 414.1  | 418.8  | 414.1  | 418.8  | 418.8  | 423.3  | 423.3  | 432.4  | 437.0  |
| 70°   | 336.8  | 332.2  | 327.7  | 327.7  | 327.7  | 327.7  | 323.2  | 327.7  | 327.7  | 332.2  | 332.2  |
| 72.5° | 259.4  | 254.9  | 250.3  | 245.8  | 245.8  | 241.2  | 236.7  | 241.2  | 241.2  | 245.8  | 245.8  |
| 75°   | 195.7  | 186.6  | 186.6  | 186.6  | 182.0  | 182.0  | 182.0  | 186.6  | 186.6  | 186.6  | 191.2  |
| 77.5° | 145.7  | 145.7  | 141.1  | 141.1  | 141.1  | 145.7  | 145.7  | 150.2  | 150.2  | 150.2  | 150.2  |
| 80°   | 109.3  | 113.8  | 113.8  | 113.8  | 113.8  | 118.3  | 118.3  | 118.3  | 118.3  | 122.9  | 122.9  |
| 82.5° | 81.9   | 81.9   | 81.9   | 81.9   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   |
| 85°   | 50.1   | 54.6   | 54.6   | 50.1   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   |
| 87.5° | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   |
| 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: P593923

CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5°  | 3149.7 | 3149.7 | 3149.7 | 3149.7 | 3145.0 | 3145.0 | 3145.0 | 3140.5 |
| 5°    | 3081.4 | 3081.4 | 3081.4 | 3072.3 | 3076.8 | 3076.8 | 3067.7 | 3072.3 |
| 7.5°  | 3013.0 | 3008.5 | 3004.0 | 3004.0 | 2999.4 | 2994.9 | 2990.3 | 2994.9 |
| 10°   | 2935.8 | 2922.1 | 2922.1 | 2917.4 | 2917.4 | 2908.4 | 2908.4 | 2912.9 |
| 12.5° | 2849.2 | 2840.2 | 2840.2 | 2835.5 | 2831.0 | 2826.5 | 2822.0 | 2822.0 |
| 15°   | 2762.8 | 2753.6 | 2749.1 | 2744.6 | 2740.1 | 2730.9 | 2735.4 | 2730.9 |
| 17.5° | 2676.3 | 2662.6 | 2662.6 | 2658.0 | 2653.5 | 2644.5 | 2644.5 | 2639.8 |
| 20°   | 2576.1 | 2571.6 | 2562.5 | 2567.1 | 2562.5 | 2553.4 | 2548.9 | 2548.9 |
| 22.5° | 2476.0 | 2476.0 | 2471.5 | 2471.5 | 2466.9 | 2462.3 | 2457.8 | 2457.8 |
| 25°   | 2380.4 | 2375.9 | 2380.4 | 2380.4 | 2366.8 | 2366.8 | 2366.8 | 2371.3 |
| 27.5° | 2271.2 | 2275.7 | 2271.2 | 2271.2 | 2271.2 | 2271.2 | 2275.7 | 2271.2 |
| 30°   | 2162.0 | 2162.0 | 2162.0 | 2166.5 | 2175.6 | 2171.1 | 2171.1 | 2166.5 |
| 32.5° | 2043.7 | 2048.2 | 2048.2 | 2052.7 | 2057.3 | 2066.4 | 2066.4 | 2070.9 |
| 35°   | 1925.2 | 1934.4 | 1938.9 | 1934.4 | 1948.1 | 1948.1 | 1957.1 | 1957.1 |
| 37.5° | 1802.4 | 1806.9 | 1816.1 | 1820.6 | 1829.8 | 1834.3 | 1838.8 | 1838.8 |
| 40°   | 1670.4 | 1688.6 | 1693.1 | 1697.7 | 1711.3 | 1711.3 | 1716.0 | 1725.0 |
| 42.5° | 1547.5 | 1565.7 | 1570.3 | 1574.8 | 1583.9 | 1597.5 | 1593.0 | 1602.2 |
| 45°   | 1429.2 | 1442.9 | 1447.4 | 1451.9 | 1465.6 | 1470.1 | 1470.1 | 1483.8 |
| 47.5° | 1301.7 | 1310.9 | 1315.4 | 1324.4 | 1333.6 | 1342.7 | 1351.8 | 1347.3 |
| 50°   | 1174.3 | 1187.9 | 1197.1 | 1201.6 | 1215.3 | 1219.8 | 1224.3 | 1229.0 |
| 52.5° | 1060.5 | 1069.6 | 1074.1 | 1078.7 | 1092.3 | 1096.9 | 1101.5 | 1110.5 |
| 55°   | 951.3  | 955.8  | 964.9  | 960.4  | 974.0  | 978.5  | 983.1  | 992.2  |
| 57.5° | 842.0  | 846.6  | 851.1  | 851.1  | 860.2  | 869.3  | 873.9  | 878.4  |
| 60°   | 737.3  | 746.5  | 751.0  | 751.0  | 751.0  | 760.1  | 760.1  | 760.1  |
| 62.5° | 641.7  | 641.7  | 646.3  | 646.3  | 655.4  | 655.4  | 655.4  | 655.4  |
| 65°   | 541.6  | 546.2  | 550.7  | 550.7  | 559.8  | 555.3  | 564.4  | 559.8  |
| 67.5° | 437.0  | 437.0  | 446.0  | 446.0  | 441.5  | 446.0  | 446.0  | 446.0  |
| 70°   | 332.2  | 332.2  | 336.8  | 336.8  | 336.8  | 336.8  | 336.8  | 336.8  |
| 72.5° | 245.8  | 245.8  | 245.8  | 250.3  | 245.8  | 245.8  | 250.3  | 245.8  |
| 75°   | 191.2  | 191.2  | 191.2  | 191.2  | 191.2  | 191.2  | 191.2  | 191.2  |
| 77.5° | 150.2  | 150.2  | 154.8  | 154.8  | 154.8  | 154.8  | 154.8  | 154.8  |
| 80°   | 122.9  | 122.9  | 122.9  | 122.9  | 127.5  | 122.9  | 122.9  | 122.9  |
| 82.5° | 91.1   | 86.4   | 91.1   | 86.4   | 91.1   | 91.1   | 91.1   | 91.1   |
| 85°   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   |
| 87.5° | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   |
| 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  
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Scaled Data Report



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Scaled Data Report



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

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