

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: P584913

Luminaire Tested: **HCC8S50D010BZ-HM82555940-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S50D010BZ-HM82555940-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

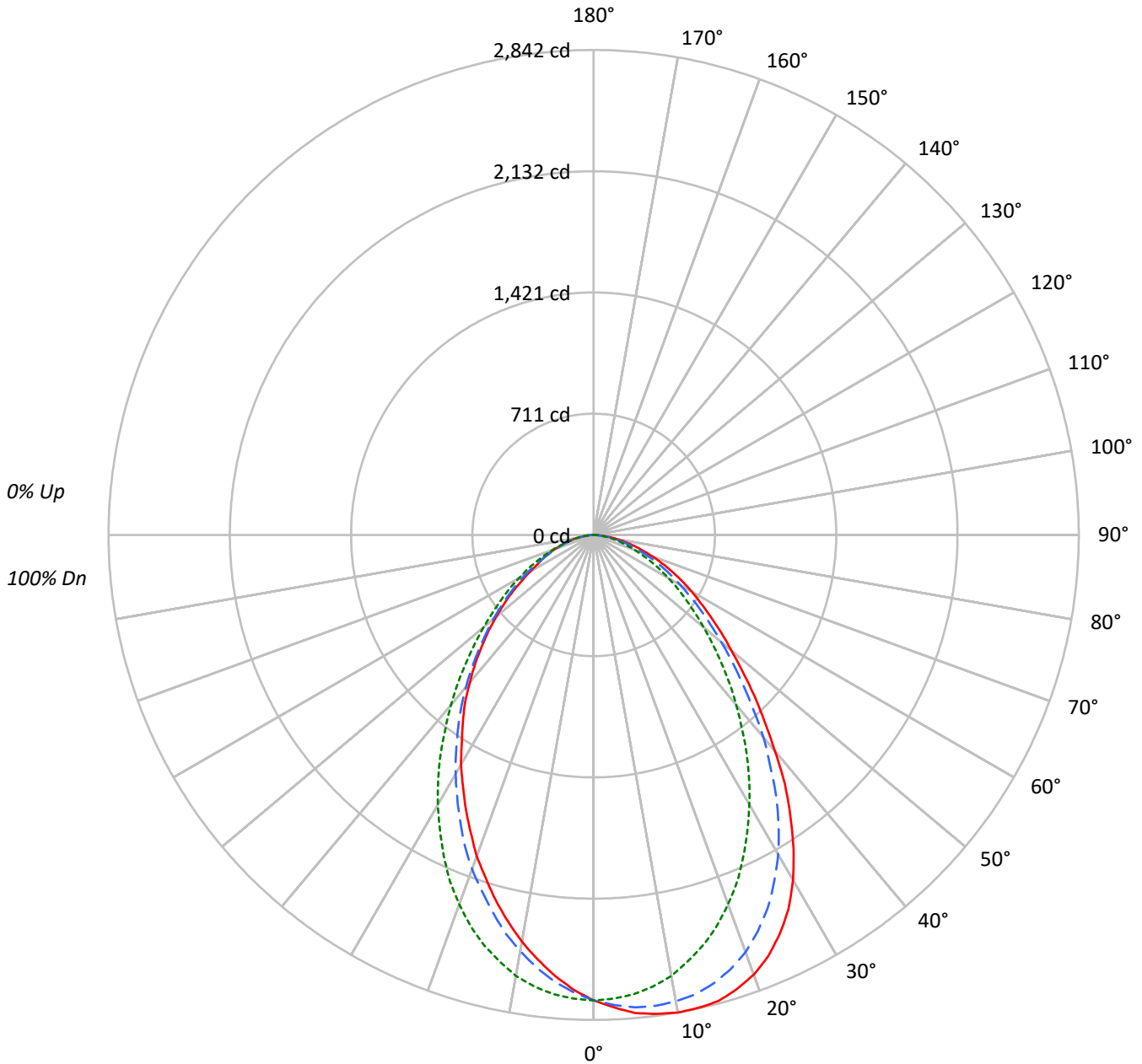
Lumens per Lamp: N/A
Luminaire Lumens: 5033.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P584913
CATALOG NUMBER: HCC8S50D010BZ-HM82555940-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584913

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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 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 84106 | 84106 | 84106 |
| 5° | 87062 | 83626 | 80301 |
| 10° | 88995 | 82156 | 75784 |
| 15° | 90265 | 79392 | 70769 |
| 20° | 89986 | 75538 | 65700 |
| 25° | 87762 | 70637 | 60315 |
| 30° | 83149 | 64964 | 55344 |
| 35° | 75646 | 58793 | 50289 |
| 40° | 66439 | 52290 | 45439 |
| 45° | 57939 | 45995 | 40509 |
| 50° | 50419 | 40297 | 35682 |
| 55° | 44966 | 35413 | 31042 |
| 60° | 40858 | 31040 | 26476 |
| 65° | 36723 | 27004 | 24035 |
| 70° | 32692 | 23018 | 21692 |
| 75° | 28666 | 19396 | 18527 |
| 80° | 24311 | 15769 | 16426 |
| 85° | 18327 | 11782 | 13126 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 255.5 | 5.1 |
| 10°-20° | 703.9 | 14.0 |
| 20°-30° | 977.1 | 19.4 |
| 30°-40° | 1010.2 | 20.1 |
| 40°-50° | 845.8 | 16.8 |
| 50°-60° | 614.0 | 12.2 |
| 60°-70° | 387.5 | 7.7 |
| 70°-80° | 192.0 | 3.8 |
| 80°-90° | 47.7 | 0.9 |
| 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° | 1936.5 | 38.5 |
| 0°-40° | 2946.6 | 58.5 |
| 0°-60° | 4406.5 | 87.5 |
| 0°-90° | 5033.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5033.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2728 | 2728 | 2728 | 2728 | 2728 | |
| 5° | 2813 | 2779 | 2702 | 2628 | 2594 | 269 |
| 15° | 2828 | 2720 | 2487 | 2287 | 2217 | 796 |
| 25° | 2579 | 2413 | 2076 | 1850 | 1773 | 1182 |
| 35° | 2010 | 1862 | 1562 | 1384 | 1336 | 1251 |
| 45° | 1329 | 1232 | 1055 | 951 | 929 | 1028 |
| 55° | 836 | 762 | 659 | 603 | 577 | 755 |
| 65° | 503 | 440 | 370 | 326 | 329 | 502 |
| 75° | 241 | 200 | 163 | 156 | 156 | 258 |
| 85° | 52 | 41 | 33 | 37 | 37 | 63 |
| 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° | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 |
| 2.5° | 2771.9 | 2771.9 | 2775.6 | 2771.9 | 2771.9 | 2771.9 | 2768.2 | 2768.2 | 2764.5 | 2764.5 | 2757.1 |
| 5° | 2812.6 | 2805.2 | 2812.6 | 2805.2 | 2805.2 | 2805.2 | 2801.5 | 2794.1 | 2790.4 | 2783.0 | 2779.3 |
| 7.5° | 2831.1 | 2827.5 | 2827.5 | 2823.7 | 2823.7 | 2820.0 | 2816.4 | 2812.6 | 2797.8 | 2794.1 | 2783.0 |
| 10° | 2842.2 | 2838.6 | 2838.6 | 2834.8 | 2827.5 | 2827.5 | 2820.0 | 2816.4 | 2797.8 | 2790.4 | 2775.6 |
| 12.5° | 2838.6 | 2838.6 | 2838.6 | 2834.8 | 2823.7 | 2820.0 | 2812.6 | 2801.5 | 2786.7 | 2771.9 | 2757.1 |
| 15° | 2827.5 | 2827.5 | 2820.0 | 2816.4 | 2805.2 | 2797.8 | 2794.1 | 2775.6 | 2760.8 | 2742.2 | 2720.0 |
| 17.5° | 2790.4 | 2790.4 | 2786.7 | 2779.3 | 2768.2 | 2760.8 | 2753.3 | 2734.9 | 2720.0 | 2690.5 | 2668.2 |
| 20° | 2742.2 | 2738.6 | 2734.9 | 2723.8 | 2712.7 | 2709.0 | 2697.9 | 2672.0 | 2653.5 | 2631.3 | 2601.6 |
| 22.5° | 2672.0 | 2668.2 | 2664.6 | 2657.1 | 2638.7 | 2631.3 | 2623.8 | 2605.4 | 2572.0 | 2549.8 | 2512.9 |
| 25° | 2579.4 | 2579.4 | 2572.0 | 2560.9 | 2542.5 | 2535.1 | 2524.0 | 2505.4 | 2475.8 | 2442.5 | 2412.9 |
| 27.5° | 2472.1 | 2468.5 | 2457.4 | 2449.9 | 2435.1 | 2424.0 | 2405.6 | 2383.4 | 2353.7 | 2327.8 | 2290.8 |
| 30° | 2335.2 | 2335.2 | 2327.8 | 2316.7 | 2298.3 | 2290.8 | 2276.0 | 2250.1 | 2220.5 | 2187.2 | 2161.2 |
| 32.5° | 2179.7 | 2179.7 | 2168.6 | 2161.2 | 2150.1 | 2131.7 | 2127.9 | 2098.4 | 2072.4 | 2046.6 | 2017.0 |
| 35° | 2009.5 | 2013.3 | 2005.9 | 1991.0 | 1972.6 | 1972.6 | 1965.1 | 1939.3 | 1909.6 | 1883.7 | 1861.5 |
| 37.5° | 1839.3 | 1828.2 | 1824.5 | 1817.1 | 1806.0 | 1791.1 | 1783.8 | 1772.7 | 1746.7 | 1728.2 | 1694.9 |
| 40° | 1650.5 | 1654.3 | 1646.9 | 1639.4 | 1635.8 | 1624.7 | 1620.9 | 1602.5 | 1584.0 | 1561.8 | 1546.9 |
| 42.5° | 1480.3 | 1480.3 | 1480.3 | 1472.9 | 1465.5 | 1454.5 | 1450.7 | 1439.6 | 1417.4 | 1402.6 | 1380.4 |
| 45° | 1328.6 | 1317.5 | 1317.5 | 1313.8 | 1310.1 | 1302.7 | 1291.6 | 1284.1 | 1269.4 | 1258.3 | 1232.4 |
| 47.5° | 1180.6 | 1184.3 | 1180.6 | 1176.8 | 1165.7 | 1162.1 | 1158.4 | 1143.5 | 1128.8 | 1117.7 | 1099.1 |
| 50° | 1051.0 | 1058.4 | 1051.0 | 1051.0 | 1043.7 | 1039.9 | 1032.6 | 1021.5 | 1010.4 | 991.8 | 973.3 |
| 52.5° | 943.7 | 943.7 | 940.0 | 936.3 | 925.1 | 917.8 | 914.0 | 910.4 | 891.9 | 877.1 | 862.3 |
| 55° | 836.4 | 840.0 | 840.0 | 828.9 | 825.3 | 817.8 | 814.2 | 803.1 | 795.6 | 773.4 | 762.4 |
| 57.5° | 743.8 | 740.2 | 743.8 | 736.5 | 729.1 | 721.6 | 718.0 | 710.5 | 699.4 | 684.7 | 669.8 |
| 60° | 662.5 | 655.0 | 655.0 | 651.4 | 643.9 | 640.3 | 632.8 | 621.8 | 610.7 | 595.8 | 584.7 |
| 62.5° | 581.0 | 577.4 | 573.6 | 569.9 | 562.5 | 558.8 | 555.2 | 544.1 | 532.9 | 521.8 | 510.7 |
| 65° | 503.3 | 503.3 | 499.6 | 492.1 | 488.5 | 484.8 | 481.2 | 473.7 | 458.9 | 451.5 | 440.4 |
| 67.5° | 433.0 | 429.3 | 429.3 | 421.9 | 414.5 | 410.8 | 410.8 | 403.4 | 392.3 | 381.2 | 373.7 |
| 70° | 362.6 | 366.4 | 362.6 | 359.0 | 351.5 | 351.5 | 344.2 | 340.5 | 325.7 | 321.9 | 310.8 |
| 72.5° | 299.7 | 299.7 | 296.1 | 296.1 | 288.6 | 285.0 | 285.0 | 277.5 | 270.2 | 262.8 | 255.3 |
| 75° | 240.6 | 240.6 | 240.6 | 236.8 | 233.1 | 225.7 | 225.7 | 222.0 | 214.6 | 207.3 | 199.9 |
| 77.5° | 188.8 | 185.1 | 185.1 | 181.3 | 177.7 | 173.9 | 173.9 | 170.2 | 162.8 | 159.1 | 151.7 |
| 80° | 136.9 | 133.3 | 133.3 | 133.3 | 125.8 | 129.5 | 125.8 | 122.2 | 118.4 | 114.7 | 111.1 |
| 82.5° | 88.8 | 92.5 | 92.5 | 88.8 | 85.1 | 85.1 | 85.1 | 81.4 | 81.4 | 77.7 | 74.0 |
| 85° | 51.8 | 51.8 | 51.8 | 51.8 | 48.2 | 48.2 | 48.2 | 44.4 | 44.4 | 44.4 | 40.7 |
| 87.5° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |
| 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° | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 |
| 2.5° | 2757.1 | 2749.7 | 2746.0 | 2742.2 | 2742.2 | 2738.6 | 2734.9 | 2727.5 | 2727.5 | 2720.0 | 2716.4 |
| 5° | 2771.9 | 2760.8 | 2753.3 | 2746.0 | 2742.2 | 2734.9 | 2727.5 | 2716.4 | 2712.7 | 2701.6 | 2690.5 |
| 7.5° | 2775.6 | 2757.1 | 2749.7 | 2734.9 | 2727.5 | 2720.0 | 2705.3 | 2694.2 | 2679.3 | 2668.2 | 2653.5 |
| 10° | 2760.8 | 2746.0 | 2727.5 | 2709.0 | 2705.3 | 2694.2 | 2672.0 | 2657.1 | 2638.7 | 2623.8 | 2601.6 |
| 12.5° | 2738.6 | 2716.4 | 2697.9 | 2675.7 | 2664.6 | 2653.5 | 2631.3 | 2609.1 | 2583.1 | 2557.3 | 2535.1 |
| 15° | 2701.6 | 2675.7 | 2649.8 | 2623.8 | 2609.1 | 2598.0 | 2572.0 | 2546.2 | 2520.2 | 2486.9 | 2464.7 |
| 17.5° | 2646.0 | 2616.5 | 2590.5 | 2557.3 | 2542.5 | 2531.4 | 2498.0 | 2468.5 | 2435.1 | 2401.8 | 2379.6 |
| 20° | 2575.8 | 2538.7 | 2509.1 | 2472.1 | 2461.0 | 2442.5 | 2409.2 | 2375.9 | 2338.9 | 2301.9 | 2276.0 |
| 22.5° | 2483.2 | 2446.2 | 2412.9 | 2375.9 | 2357.4 | 2338.9 | 2305.6 | 2264.9 | 2227.9 | 2198.3 | 2172.4 |
| 25° | 2375.9 | 2342.6 | 2301.9 | 2268.6 | 2246.4 | 2224.1 | 2187.2 | 2153.9 | 2120.6 | 2076.1 | 2050.2 |
| 27.5° | 2257.5 | 2216.8 | 2187.2 | 2142.8 | 2120.6 | 2105.7 | 2065.0 | 2020.6 | 1991.0 | 1950.4 | 1920.7 |
| 30° | 2124.3 | 2087.2 | 2053.9 | 2009.5 | 1987.3 | 1972.6 | 1935.5 | 1894.8 | 1865.3 | 1824.5 | 1794.9 |
| 32.5° | 1983.7 | 1942.9 | 1902.2 | 1872.6 | 1846.7 | 1831.9 | 1791.1 | 1765.3 | 1728.2 | 1694.9 | 1661.6 |
| 35° | 1831.9 | 1791.1 | 1761.6 | 1720.9 | 1706.0 | 1691.3 | 1658.0 | 1624.7 | 1591.4 | 1561.8 | 1535.8 |
| 37.5° | 1669.1 | 1639.4 | 1606.1 | 1576.5 | 1565.4 | 1550.7 | 1509.9 | 1480.3 | 1454.5 | 1424.8 | 1402.6 |
| 40° | 1509.9 | 1484.0 | 1461.8 | 1432.3 | 1413.7 | 1402.6 | 1373.0 | 1347.0 | 1317.5 | 1299.0 | 1276.8 |
| 42.5° | 1365.6 | 1335.9 | 1313.8 | 1291.6 | 1273.0 | 1261.9 | 1236.1 | 1217.5 | 1195.3 | 1176.8 | 1151.0 |
| 45° | 1213.9 | 1199.0 | 1173.2 | 1154.6 | 1143.5 | 1128.8 | 1110.2 | 1088.0 | 1069.5 | 1054.7 | 1036.2 |
| 47.5° | 1080.6 | 1065.8 | 1047.3 | 1025.1 | 1017.7 | 1006.6 | 988.2 | 973.3 | 958.5 | 943.7 | 925.1 |
| 50° | 958.5 | 940.0 | 925.1 | 910.4 | 903.1 | 891.9 | 873.4 | 866.0 | 854.9 | 840.0 | 828.9 |
| 52.5° | 847.5 | 832.7 | 817.8 | 799.4 | 795.6 | 788.3 | 777.2 | 762.4 | 751.3 | 743.8 | 736.5 |
| 55° | 747.6 | 732.7 | 721.6 | 706.9 | 703.2 | 695.8 | 680.9 | 673.6 | 666.1 | 658.7 | 651.4 |
| 57.5° | 658.7 | 643.9 | 629.2 | 621.8 | 614.3 | 606.9 | 603.2 | 592.1 | 584.7 | 581.0 | 573.6 |
| 60° | 577.4 | 562.5 | 551.4 | 540.3 | 536.6 | 532.9 | 525.5 | 518.1 | 510.7 | 503.3 | 499.6 |
| 62.5° | 499.6 | 484.8 | 477.4 | 470.1 | 462.6 | 462.6 | 455.2 | 447.8 | 440.4 | 436.7 | 429.3 |
| 65° | 429.3 | 421.9 | 410.8 | 399.7 | 395.9 | 395.9 | 384.8 | 381.2 | 377.5 | 370.1 | 362.6 |
| 67.5° | 362.6 | 355.3 | 344.2 | 340.5 | 336.8 | 333.0 | 329.4 | 321.9 | 314.6 | 310.8 | 303.5 |
| 70° | 303.5 | 296.1 | 288.6 | 285.0 | 281.3 | 277.5 | 270.2 | 266.4 | 259.1 | 255.3 | 251.7 |
| 72.5° | 244.2 | 240.6 | 233.1 | 229.5 | 225.7 | 222.0 | 218.4 | 214.6 | 207.3 | 203.5 | 199.9 |
| 75° | 196.2 | 192.4 | 185.1 | 181.3 | 177.7 | 177.7 | 173.9 | 166.6 | 162.8 | 162.8 | 159.1 |
| 77.5° | 148.0 | 144.4 | 140.6 | 136.9 | 133.3 | 133.3 | 129.5 | 125.8 | 122.2 | 122.2 | 118.4 |
| 80° | 107.3 | 103.6 | 99.9 | 99.9 | 99.9 | 96.2 | 92.5 | 92.5 | 88.8 | 88.8 | 85.1 |
| 82.5° | 70.3 | 70.3 | 66.6 | 66.6 | 66.6 | 62.9 | 62.9 | 59.3 | 59.3 | 59.3 | 59.3 |
| 85° | 40.7 | 40.7 | 40.7 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 33.3 | 37.1 |
| 87.5° | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 14.8 | 14.8 | 14.8 |
| 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° | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 |
| 2.5° | 2712.7 | 2709.0 | 2701.6 | 2701.6 | 2694.2 | 2694.2 | 2690.5 | 2686.8 | 2683.1 | 2679.3 | 2675.7 |
| 5° | 2686.8 | 2672.0 | 2664.6 | 2660.9 | 2653.5 | 2649.8 | 2638.7 | 2631.3 | 2627.6 | 2620.2 | 2612.7 |
| 7.5° | 2638.7 | 2623.8 | 2609.1 | 2605.4 | 2601.6 | 2586.9 | 2575.8 | 2564.7 | 2557.3 | 2549.8 | 2542.5 |
| 10° | 2583.1 | 2568.4 | 2549.8 | 2542.5 | 2535.1 | 2516.5 | 2501.8 | 2490.7 | 2475.8 | 2461.0 | 2457.4 |
| 12.5° | 2516.5 | 2494.3 | 2472.1 | 2464.7 | 2453.6 | 2435.1 | 2420.3 | 2401.8 | 2390.7 | 2372.3 | 2368.5 |
| 15° | 2438.9 | 2412.9 | 2394.5 | 2375.9 | 2368.5 | 2350.0 | 2324.1 | 2309.2 | 2287.1 | 2279.7 | 2261.2 |
| 17.5° | 2346.3 | 2320.3 | 2294.5 | 2287.1 | 2276.0 | 2250.1 | 2224.1 | 2205.7 | 2183.5 | 2172.4 | 2161.2 |
| 20° | 2250.1 | 2216.8 | 2190.8 | 2183.5 | 2168.6 | 2146.5 | 2120.6 | 2102.1 | 2083.5 | 2061.3 | 2050.2 |
| 22.5° | 2139.0 | 2102.1 | 2079.9 | 2061.3 | 2057.7 | 2031.7 | 2002.1 | 1987.3 | 1972.6 | 1954.0 | 1939.3 |
| 25° | 2017.0 | 1983.7 | 1957.7 | 1942.9 | 1935.5 | 1913.3 | 1891.1 | 1872.6 | 1850.4 | 1839.3 | 1820.8 |
| 27.5° | 1891.1 | 1868.9 | 1835.6 | 1820.8 | 1809.7 | 1791.1 | 1765.3 | 1754.2 | 1732.0 | 1717.1 | 1706.0 |
| 30° | 1768.9 | 1735.7 | 1717.1 | 1698.7 | 1687.6 | 1669.1 | 1646.9 | 1635.8 | 1617.2 | 1602.5 | 1591.4 |
| 32.5° | 1635.8 | 1613.6 | 1587.6 | 1580.3 | 1565.4 | 1546.9 | 1532.1 | 1513.6 | 1498.8 | 1484.0 | 1480.3 |
| 35° | 1513.6 | 1484.0 | 1458.1 | 1450.7 | 1439.6 | 1421.2 | 1413.7 | 1402.6 | 1384.1 | 1380.4 | 1365.6 |
| 37.5° | 1380.4 | 1365.6 | 1335.9 | 1324.8 | 1321.2 | 1306.4 | 1291.6 | 1284.1 | 1273.0 | 1261.9 | 1258.3 |
| 40° | 1254.6 | 1236.1 | 1221.3 | 1210.1 | 1202.8 | 1191.7 | 1176.8 | 1173.2 | 1165.7 | 1151.0 | 1147.3 |
| 42.5° | 1136.2 | 1117.7 | 1102.8 | 1099.1 | 1088.0 | 1076.9 | 1069.5 | 1058.4 | 1054.7 | 1051.0 | 1043.7 |
| 45° | 1021.5 | 1010.4 | 995.5 | 991.8 | 988.2 | 973.3 | 965.9 | 958.5 | 951.1 | 947.4 | 940.0 |
| 47.5° | 917.8 | 906.7 | 895.6 | 891.9 | 884.5 | 880.8 | 869.7 | 866.0 | 854.9 | 851.1 | 847.5 |
| 50° | 817.8 | 810.5 | 803.1 | 799.4 | 792.0 | 788.3 | 780.9 | 773.4 | 766.0 | 762.4 | 758.7 |
| 52.5° | 729.1 | 721.6 | 714.3 | 710.5 | 706.9 | 699.4 | 692.0 | 684.7 | 680.9 | 677.2 | 673.6 |
| 55° | 643.9 | 636.5 | 632.8 | 629.2 | 625.4 | 621.8 | 610.7 | 606.9 | 603.2 | 599.6 | 592.1 |
| 57.5° | 566.3 | 558.8 | 551.4 | 551.4 | 547.7 | 544.1 | 536.6 | 529.2 | 529.2 | 521.8 | 514.4 |
| 60° | 495.9 | 488.5 | 481.2 | 477.4 | 473.7 | 466.3 | 462.6 | 458.9 | 455.2 | 451.5 | 444.1 |
| 62.5° | 421.9 | 418.2 | 410.8 | 410.8 | 403.4 | 399.7 | 395.9 | 392.3 | 388.6 | 381.2 | 377.5 |
| 65° | 359.0 | 355.3 | 347.9 | 344.2 | 344.2 | 340.5 | 333.0 | 329.4 | 325.7 | 325.7 | 321.9 |
| 67.5° | 299.7 | 296.1 | 288.6 | 285.0 | 285.0 | 281.3 | 277.5 | 277.5 | 273.9 | 270.2 | 273.9 |
| 70° | 247.9 | 240.6 | 240.6 | 236.8 | 236.8 | 233.1 | 229.5 | 229.5 | 229.5 | 233.1 | 233.1 |
| 72.5° | 196.2 | 192.4 | 188.8 | 188.8 | 188.8 | 188.8 | 185.1 | 185.1 | 188.8 | 192.4 | 192.4 |
| 75° | 155.5 | 151.7 | 151.7 | 151.7 | 148.0 | 148.0 | 151.7 | 151.7 | 155.5 | 155.5 | 155.5 |
| 77.5° | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 118.4 | 118.4 | 122.2 | 122.2 | 122.2 |
| 80° | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 92.5 |
| 82.5° | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 62.9 | 62.9 | 62.9 | 62.9 |
| 85° | 33.3 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 |
| 87.5° | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 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: P584913

CATALOG NUMBER: HCC8S50D010BZ-HM82555940-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 | 2727.5 |
| 2.5° | 2672.0 | 2672.0 | 2672.0 | 2675.7 | 2668.2 | 2668.2 | 2668.2 | 2668.2 |
| 5° | 2609.1 | 2605.4 | 2601.6 | 2605.4 | 2598.0 | 2598.0 | 2594.2 | 2594.2 |
| 7.5° | 2531.4 | 2527.6 | 2524.0 | 2524.0 | 2516.5 | 2516.5 | 2512.9 | 2509.1 |
| 10° | 2446.2 | 2438.9 | 2442.5 | 2435.1 | 2431.4 | 2427.8 | 2424.0 | 2420.3 |
| 12.5° | 2353.7 | 2346.3 | 2342.6 | 2335.2 | 2327.8 | 2324.1 | 2327.8 | 2320.3 |
| 15° | 2253.8 | 2242.7 | 2239.0 | 2231.6 | 2224.1 | 2220.5 | 2220.5 | 2216.8 |
| 17.5° | 2142.8 | 2135.4 | 2131.7 | 2124.3 | 2120.6 | 2113.2 | 2109.5 | 2105.7 |
| 20° | 2039.1 | 2020.6 | 2024.4 | 2017.0 | 2013.3 | 1998.4 | 1998.4 | 2002.1 |
| 22.5° | 1924.4 | 1913.3 | 1905.9 | 1898.5 | 1894.8 | 1887.4 | 1887.4 | 1883.7 |
| 25° | 1809.7 | 1798.6 | 1794.9 | 1787.5 | 1783.8 | 1776.4 | 1772.7 | 1772.7 |
| 27.5° | 1698.7 | 1683.8 | 1683.8 | 1676.5 | 1669.1 | 1665.4 | 1661.6 | 1658.0 |
| 30° | 1580.3 | 1569.1 | 1565.4 | 1565.4 | 1561.8 | 1561.8 | 1550.7 | 1554.3 |
| 32.5° | 1469.2 | 1461.8 | 1458.1 | 1450.7 | 1450.7 | 1447.0 | 1447.0 | 1435.9 |
| 35° | 1358.1 | 1347.0 | 1350.8 | 1343.4 | 1339.7 | 1335.9 | 1339.7 | 1335.9 |
| 37.5° | 1250.8 | 1243.5 | 1243.5 | 1236.1 | 1236.1 | 1232.4 | 1228.6 | 1236.1 |
| 40° | 1143.5 | 1139.9 | 1136.2 | 1132.4 | 1136.2 | 1132.4 | 1125.0 | 1128.8 |
| 42.5° | 1036.2 | 1036.2 | 1032.6 | 1032.6 | 1028.8 | 1028.8 | 1028.8 | 1028.8 |
| 45° | 940.0 | 936.3 | 936.3 | 932.6 | 932.6 | 932.6 | 932.6 | 928.9 |
| 47.5° | 843.8 | 840.0 | 840.0 | 840.0 | 836.4 | 836.4 | 832.7 | 836.4 |
| 50° | 751.3 | 751.3 | 747.6 | 747.6 | 751.3 | 747.6 | 743.8 | 743.8 |
| 52.5° | 666.1 | 666.1 | 662.5 | 662.5 | 658.7 | 655.0 | 658.7 | 658.7 |
| 55° | 588.5 | 584.7 | 581.0 | 581.0 | 577.4 | 573.6 | 573.6 | 577.4 |
| 57.5° | 514.4 | 510.7 | 507.0 | 507.0 | 499.6 | 495.9 | 495.9 | 495.9 |
| 60° | 444.1 | 436.7 | 436.7 | 433.0 | 433.0 | 429.3 | 429.3 | 429.3 |
| 62.5° | 377.5 | 373.7 | 373.7 | 373.7 | 373.7 | 370.1 | 370.1 | 370.1 |
| 65° | 321.9 | 321.9 | 321.9 | 325.7 | 325.7 | 329.4 | 329.4 | 329.4 |
| 67.5° | 277.5 | 281.3 | 281.3 | 281.3 | 285.0 | 285.0 | 285.0 | 281.3 |
| 70° | 236.8 | 236.8 | 236.8 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 |
| 72.5° | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 |
| 75° | 155.5 | 159.1 | 159.1 | 159.1 | 155.5 | 159.1 | 159.1 | 155.5 |
| 77.5° | 122.2 | 122.2 | 122.2 | 122.2 | 122.2 | 122.2 | 122.2 | 122.2 |
| 80° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 82.5° | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 |
| 85° | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 |
| 87.5° | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



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

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(END OF REPORT)