

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: P584846

Luminaire Tested: **HCC8W50D010BZ-HM82555840-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584846
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: HCC8W50D010BZ-HM82555840-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

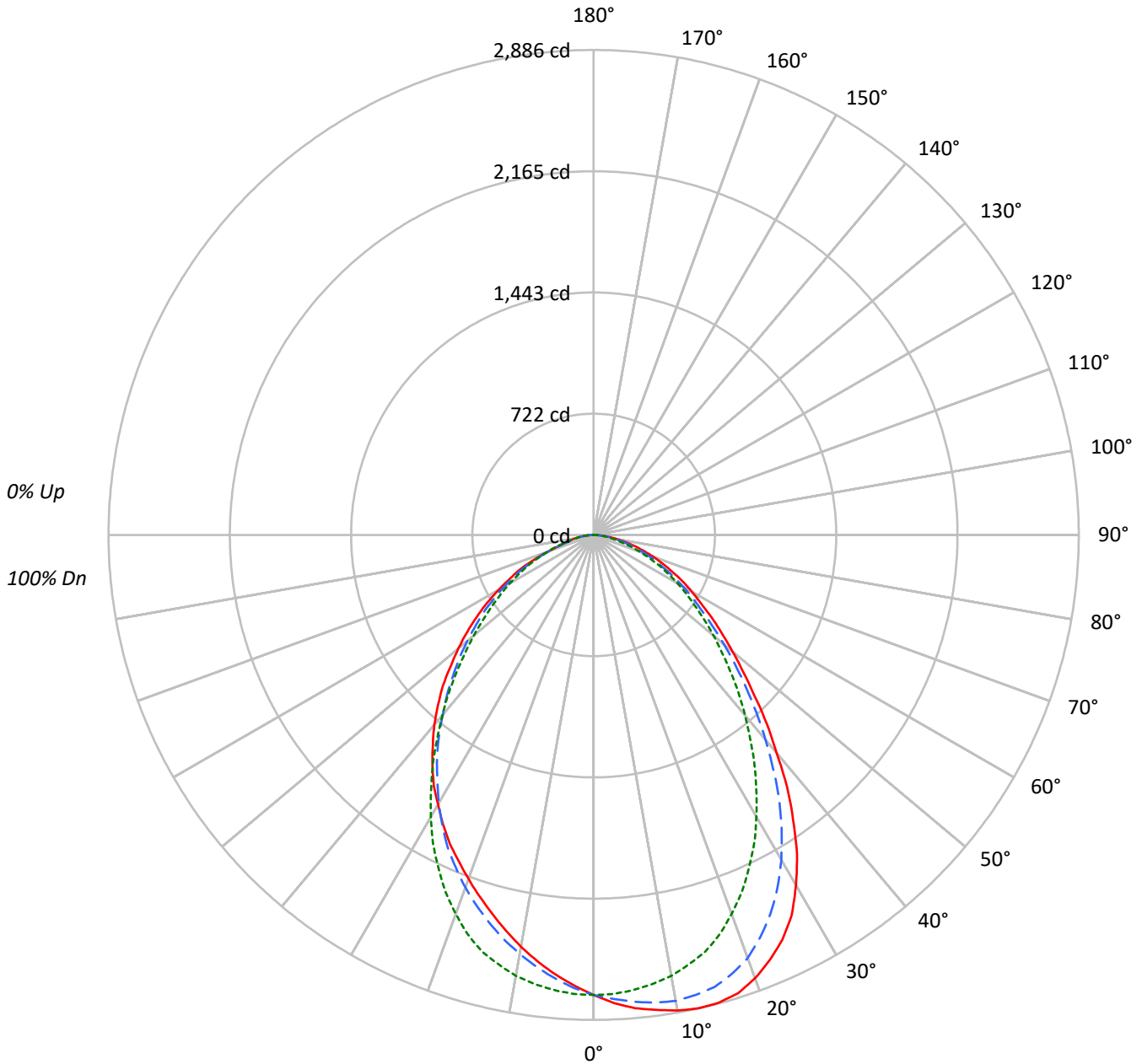
Lumens per Lamp: N/A
Luminaire Lumens: 5506.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584846
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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° | 84427 | 84427 | 84427 |
| 5° | 87517 | 84149 | 81258 |
| 10° | 89991 | 83415 | 77936 |
| 15° | 91999 | 81943 | 74492 |
| 20° | 92142 | 78744 | 71465 |
| 25° | 90375 | 74366 | 68940 |
| 30° | 85716 | 68963 | 65915 |
| 35° | 77886 | 62806 | 62952 |
| 40° | 68102 | 56360 | 59334 |
| 45° | 59021 | 50198 | 55288 |
| 50° | 51676 | 44591 | 50371 |
| 55° | 45998 | 39520 | 45584 |
| 60° | 41493 | 35499 | 40056 |
| 65° | 37453 | 31222 | 34906 |
| 70° | 33666 | 26299 | 25948 |
| 75° | 29655 | 20850 | 19456 |
| 80° | 24861 | 17278 | 18646 |
| 85° | 19282 | 15143 | 16487 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 258.3 | 4.7 |
| 10°-20° | 727.5 | 13.2 |
| 20°-30° | 1039.7 | 18.9 |
| 30°-40° | 1104.7 | 20.1 |
| 40°-50° | 951.1 | 17.3 |
| 50°-60° | 711.1 | 12.9 |
| 60°-70° | 453.6 | 8.2 |
| 70°-80° | 206.4 | 3.7 |
| 80°-90° | 54.2 | 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° | 2025.5 | 36.8 |
| 0°-40° | 3130.2 | 56.8 |
| 0°-60° | 4792.4 | 87.0 |
| 0°-90° | 5506.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5506.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2738 | 2738 | 2738 | 2738 | 2738 | |
| 5° | 2827 | 2788 | 2718 | 2648 | 2625 | 271 |
| 15° | 2882 | 2785 | 2567 | 2392 | 2333 | 812 |
| 25° | 2656 | 2489 | 2186 | 2054 | 2026 | 1216 |
| 35° | 2069 | 1925 | 1668 | 1626 | 1672 | 1288 |
| 45° | 1353 | 1280 | 1151 | 1182 | 1268 | 1052 |
| 55° | 856 | 786 | 735 | 797 | 848 | 769 |
| 65° | 513 | 455 | 428 | 447 | 478 | 512 |
| 75° | 249 | 214 | 175 | 160 | 163 | 264 |
| 85° | 54 | 47 | 43 | 47 | 47 | 66 |
| 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° | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 |
| 2.5° | 2788.4 | 2780.7 | 2784.6 | 2780.7 | 2784.6 | 2784.6 | 2776.8 | 2776.8 | 2776.8 | 2776.8 | 2765.2 |
| 5° | 2827.3 | 2823.5 | 2823.5 | 2819.6 | 2815.7 | 2819.6 | 2815.7 | 2811.8 | 2804.0 | 2800.1 | 2788.4 |
| 7.5° | 2850.7 | 2850.7 | 2850.7 | 2850.7 | 2846.7 | 2842.9 | 2839.0 | 2831.2 | 2823.5 | 2815.7 | 2807.9 |
| 10° | 2874.0 | 2878.0 | 2874.0 | 2870.1 | 2866.3 | 2858.4 | 2854.6 | 2846.7 | 2835.2 | 2823.5 | 2815.7 |
| 12.5° | 2885.7 | 2885.7 | 2881.8 | 2881.8 | 2874.0 | 2870.1 | 2858.4 | 2846.7 | 2835.2 | 2823.5 | 2804.0 |
| 15° | 2881.8 | 2881.8 | 2878.0 | 2874.0 | 2862.4 | 2858.4 | 2850.7 | 2839.0 | 2819.6 | 2804.0 | 2784.6 |
| 17.5° | 2858.4 | 2854.6 | 2846.7 | 2846.7 | 2831.2 | 2827.3 | 2819.6 | 2804.0 | 2784.6 | 2761.3 | 2737.9 |
| 20° | 2807.9 | 2807.9 | 2804.0 | 2800.1 | 2784.6 | 2772.9 | 2765.2 | 2745.6 | 2730.1 | 2703.0 | 2679.6 |
| 22.5° | 2737.9 | 2745.6 | 2737.9 | 2730.1 | 2710.7 | 2706.8 | 2695.1 | 2671.7 | 2648.5 | 2617.4 | 2590.2 |
| 25° | 2656.2 | 2652.3 | 2648.5 | 2640.7 | 2625.1 | 2617.4 | 2601.8 | 2578.5 | 2555.1 | 2520.1 | 2489.0 |
| 27.5° | 2551.2 | 2535.7 | 2535.7 | 2520.1 | 2508.4 | 2496.8 | 2489.0 | 2465.7 | 2434.6 | 2407.3 | 2368.4 |
| 30° | 2407.3 | 2411.2 | 2391.8 | 2387.9 | 2368.4 | 2360.7 | 2345.1 | 2321.8 | 2294.5 | 2263.4 | 2232.3 |
| 32.5° | 2251.7 | 2240.2 | 2240.2 | 2224.6 | 2208.9 | 2197.4 | 2193.4 | 2166.2 | 2142.9 | 2111.8 | 2080.7 |
| 35° | 2069.0 | 2069.0 | 2057.3 | 2053.5 | 2037.9 | 2030.1 | 2018.4 | 2002.8 | 1975.6 | 1948.4 | 1925.1 |
| 37.5° | 1890.0 | 1882.3 | 1878.5 | 1870.6 | 1858.9 | 1847.3 | 1847.3 | 1820.1 | 1816.2 | 1785.1 | 1754.0 |
| 40° | 1691.8 | 1699.5 | 1691.8 | 1680.1 | 1676.2 | 1668.4 | 1664.5 | 1649.0 | 1637.3 | 1610.1 | 1590.7 |
| 42.5° | 1524.5 | 1516.8 | 1516.8 | 1512.8 | 1497.3 | 1497.3 | 1489.5 | 1481.7 | 1462.3 | 1454.5 | 1431.2 |
| 45° | 1353.4 | 1361.2 | 1349.5 | 1353.4 | 1337.8 | 1337.8 | 1337.8 | 1322.3 | 1306.7 | 1295.0 | 1279.5 |
| 47.5° | 1205.6 | 1209.4 | 1209.4 | 1197.9 | 1193.9 | 1193.9 | 1186.2 | 1178.4 | 1166.8 | 1151.1 | 1139.5 |
| 50° | 1077.2 | 1081.2 | 1073.4 | 1069.5 | 1061.7 | 1057.8 | 1057.8 | 1042.3 | 1034.4 | 1018.9 | 1011.2 |
| 52.5° | 960.6 | 960.6 | 956.7 | 956.7 | 945.0 | 945.0 | 937.3 | 925.6 | 917.8 | 910.1 | 890.5 |
| 55° | 855.6 | 855.6 | 851.7 | 847.9 | 847.9 | 836.2 | 832.2 | 820.6 | 812.8 | 797.3 | 785.6 |
| 57.5° | 754.5 | 758.3 | 754.5 | 750.6 | 746.8 | 742.8 | 735.1 | 723.4 | 715.5 | 704.0 | 696.1 |
| 60° | 672.8 | 672.8 | 668.9 | 665.0 | 657.2 | 653.4 | 649.5 | 641.7 | 630.0 | 622.3 | 610.6 |
| 62.5° | 595.0 | 591.2 | 587.3 | 583.3 | 575.6 | 575.6 | 567.8 | 560.1 | 548.4 | 540.5 | 532.8 |
| 65° | 513.3 | 513.3 | 509.5 | 509.5 | 505.6 | 497.8 | 493.9 | 490.0 | 474.5 | 470.5 | 455.0 |
| 67.5° | 439.4 | 443.4 | 435.6 | 435.6 | 427.9 | 427.9 | 423.9 | 412.2 | 408.3 | 400.6 | 392.8 |
| 70° | 373.4 | 373.4 | 373.4 | 369.4 | 361.7 | 357.8 | 353.9 | 346.1 | 342.3 | 334.5 | 326.7 |
| 72.5° | 307.2 | 307.2 | 303.4 | 303.4 | 299.5 | 295.5 | 291.7 | 284.0 | 284.0 | 276.1 | 268.4 |
| 75° | 248.9 | 248.9 | 245.0 | 241.2 | 237.2 | 237.2 | 233.3 | 229.5 | 221.6 | 217.8 | 213.9 |
| 77.5° | 190.5 | 190.5 | 190.5 | 186.7 | 182.8 | 182.8 | 182.8 | 175.0 | 167.3 | 167.3 | 163.3 |
| 80° | 140.0 | 140.0 | 136.1 | 136.1 | 132.2 | 132.2 | 132.2 | 128.4 | 124.5 | 120.5 | 116.7 |
| 82.5° | 93.3 | 93.3 | 93.3 | 93.3 | 89.4 | 89.4 | 89.4 | 85.6 | 81.7 | 81.7 | 81.7 |
| 85° | 54.5 | 54.5 | 54.5 | 54.5 | 50.5 | 50.5 | 50.5 | 50.5 | 50.5 | 46.6 | 46.6 |
| 87.5° | 23.4 | 19.4 | 23.4 | 19.4 | 23.4 | 19.4 | 23.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 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° | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 |
| 2.5° | 2769.0 | 2765.2 | 2761.3 | 2757.3 | 2757.3 | 2753.5 | 2745.6 | 2741.8 | 2737.9 | 2734.1 | 2734.1 |
| 5° | 2784.6 | 2780.7 | 2772.9 | 2765.2 | 2761.3 | 2753.5 | 2745.6 | 2737.9 | 2730.1 | 2718.5 | 2714.5 |
| 7.5° | 2796.2 | 2784.6 | 2776.8 | 2761.3 | 2757.3 | 2749.6 | 2737.9 | 2726.2 | 2710.7 | 2695.1 | 2683.4 |
| 10° | 2796.2 | 2780.7 | 2769.0 | 2749.6 | 2741.8 | 2734.1 | 2718.5 | 2699.0 | 2679.6 | 2664.0 | 2644.5 |
| 12.5° | 2788.4 | 2769.0 | 2749.6 | 2730.1 | 2718.5 | 2706.8 | 2683.4 | 2664.0 | 2640.7 | 2617.4 | 2601.8 |
| 15° | 2761.3 | 2737.9 | 2714.5 | 2691.3 | 2679.6 | 2664.0 | 2640.7 | 2613.4 | 2590.2 | 2566.8 | 2539.5 |
| 17.5° | 2710.7 | 2687.3 | 2660.2 | 2632.9 | 2617.4 | 2605.7 | 2570.6 | 2551.2 | 2516.3 | 2492.9 | 2469.5 |
| 20° | 2644.5 | 2617.4 | 2582.3 | 2555.1 | 2535.7 | 2524.0 | 2496.8 | 2461.8 | 2434.6 | 2399.6 | 2376.2 |
| 22.5° | 2559.1 | 2524.0 | 2489.0 | 2461.8 | 2442.4 | 2426.7 | 2391.8 | 2356.8 | 2333.4 | 2302.3 | 2275.1 |
| 25° | 2457.9 | 2422.9 | 2387.9 | 2349.0 | 2329.6 | 2314.0 | 2282.9 | 2251.7 | 2220.6 | 2185.7 | 2162.3 |
| 27.5° | 2337.3 | 2298.5 | 2267.3 | 2232.3 | 2212.9 | 2189.5 | 2154.6 | 2123.5 | 2092.3 | 2069.0 | 2037.9 |
| 30° | 2205.1 | 2162.3 | 2131.2 | 2096.3 | 2076.7 | 2057.3 | 2022.4 | 1991.2 | 1964.0 | 1936.8 | 1921.3 |
| 32.5° | 2045.6 | 2014.5 | 1983.4 | 1948.4 | 1932.8 | 1921.3 | 1886.2 | 1855.1 | 1824.0 | 1800.6 | 1788.9 |
| 35° | 1894.0 | 1858.9 | 1831.7 | 1800.6 | 1781.2 | 1769.5 | 1738.4 | 1711.2 | 1695.6 | 1668.4 | 1652.8 |
| 37.5° | 1734.6 | 1707.3 | 1676.2 | 1645.1 | 1633.4 | 1621.8 | 1598.4 | 1571.1 | 1547.9 | 1528.4 | 1520.6 |
| 40° | 1567.3 | 1544.0 | 1516.8 | 1497.3 | 1485.7 | 1474.0 | 1454.5 | 1435.1 | 1419.5 | 1400.1 | 1392.3 |
| 42.5° | 1407.8 | 1392.3 | 1368.9 | 1345.6 | 1333.9 | 1330.1 | 1306.7 | 1291.2 | 1283.4 | 1275.6 | 1267.8 |
| 45° | 1263.9 | 1240.7 | 1225.1 | 1209.4 | 1197.9 | 1190.0 | 1178.4 | 1166.8 | 1158.9 | 1151.1 | 1143.4 |
| 47.5° | 1124.0 | 1104.5 | 1088.9 | 1077.2 | 1065.7 | 1061.7 | 1054.0 | 1042.3 | 1034.4 | 1034.4 | 1034.4 |
| 50° | 995.6 | 980.1 | 964.5 | 956.7 | 952.9 | 945.0 | 937.3 | 933.3 | 929.5 | 929.5 | 929.5 |
| 52.5° | 882.8 | 867.3 | 855.6 | 847.9 | 847.9 | 840.0 | 832.2 | 828.4 | 828.4 | 828.4 | 828.4 |
| 55° | 777.9 | 766.2 | 758.3 | 750.6 | 742.8 | 738.9 | 738.9 | 738.9 | 735.1 | 735.1 | 738.9 |
| 57.5° | 684.4 | 676.7 | 665.0 | 657.2 | 653.4 | 653.4 | 649.5 | 645.6 | 649.5 | 653.4 | 657.2 |
| 60° | 598.9 | 591.2 | 587.3 | 575.6 | 575.6 | 575.6 | 571.6 | 571.6 | 571.6 | 575.6 | 579.5 |
| 62.5° | 521.1 | 517.3 | 509.5 | 505.6 | 501.7 | 501.7 | 497.8 | 497.8 | 497.8 | 497.8 | 501.7 |
| 65° | 451.1 | 443.4 | 435.6 | 435.6 | 435.6 | 431.7 | 431.7 | 423.9 | 427.9 | 427.9 | 423.9 |
| 67.5° | 385.1 | 377.2 | 373.4 | 369.4 | 365.5 | 365.5 | 361.7 | 357.8 | 353.9 | 353.9 | 353.9 |
| 70° | 322.8 | 315.0 | 315.0 | 307.2 | 307.2 | 303.4 | 299.5 | 299.5 | 295.5 | 291.7 | 287.8 |
| 72.5° | 260.6 | 256.7 | 252.7 | 248.9 | 248.9 | 248.9 | 245.0 | 241.2 | 237.2 | 233.3 | 225.6 |
| 75° | 206.1 | 206.1 | 198.4 | 194.4 | 194.4 | 190.5 | 186.7 | 182.8 | 178.9 | 175.0 | 171.1 |
| 77.5° | 159.5 | 155.6 | 147.8 | 143.9 | 143.9 | 143.9 | 140.0 | 136.1 | 132.2 | 128.4 | 124.5 |
| 80° | 116.7 | 112.8 | 109.0 | 105.0 | 105.0 | 105.0 | 101.1 | 101.1 | 97.3 | 97.3 | 97.3 |
| 82.5° | 77.7 | 77.7 | 73.9 | 73.9 | 73.9 | 73.9 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 |
| 85° | 46.6 | 46.6 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |
| 87.5° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 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° | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 |
| 2.5° | 2726.2 | 2726.2 | 2718.5 | 2714.5 | 2710.7 | 2714.5 | 2706.8 | 2703.0 | 2699.0 | 2699.0 | 2695.1 |
| 5° | 2703.0 | 2699.0 | 2683.4 | 2679.6 | 2675.7 | 2671.7 | 2664.0 | 2656.2 | 2648.5 | 2644.5 | 2640.7 |
| 7.5° | 2671.7 | 2660.2 | 2644.5 | 2640.7 | 2636.8 | 2625.1 | 2613.4 | 2605.7 | 2594.0 | 2590.2 | 2582.3 |
| 10° | 2629.0 | 2613.4 | 2601.8 | 2590.2 | 2582.3 | 2570.6 | 2559.1 | 2547.4 | 2531.8 | 2527.8 | 2516.3 |
| 12.5° | 2578.5 | 2559.1 | 2535.7 | 2531.8 | 2520.1 | 2504.6 | 2489.0 | 2477.3 | 2465.7 | 2457.9 | 2446.2 |
| 15° | 2516.3 | 2496.8 | 2473.5 | 2461.8 | 2450.1 | 2438.4 | 2419.0 | 2403.5 | 2391.8 | 2380.1 | 2368.4 |
| 17.5° | 2442.4 | 2419.0 | 2399.6 | 2387.9 | 2380.1 | 2360.7 | 2345.1 | 2325.6 | 2314.0 | 2302.3 | 2290.7 |
| 20° | 2352.8 | 2333.4 | 2306.2 | 2294.5 | 2290.7 | 2275.1 | 2255.7 | 2247.9 | 2232.3 | 2220.6 | 2212.9 |
| 22.5° | 2251.7 | 2232.3 | 2208.9 | 2201.2 | 2185.7 | 2177.8 | 2158.4 | 2150.6 | 2142.9 | 2131.2 | 2127.3 |
| 25° | 2139.0 | 2119.5 | 2100.1 | 2096.3 | 2084.6 | 2076.7 | 2065.0 | 2053.5 | 2053.5 | 2041.8 | 2041.8 |
| 27.5° | 2022.4 | 2002.8 | 1987.3 | 1979.6 | 1975.6 | 1967.9 | 1956.2 | 1952.3 | 1948.4 | 1944.5 | 1944.5 |
| 30° | 1897.9 | 1874.5 | 1866.8 | 1862.9 | 1858.9 | 1851.2 | 1847.3 | 1839.5 | 1843.4 | 1847.3 | 1843.4 |
| 32.5° | 1765.7 | 1757.8 | 1742.3 | 1734.6 | 1738.4 | 1734.6 | 1726.7 | 1734.6 | 1730.6 | 1738.4 | 1742.3 |
| 35° | 1637.3 | 1629.5 | 1621.8 | 1621.8 | 1613.9 | 1613.9 | 1613.9 | 1617.9 | 1625.6 | 1629.5 | 1637.3 |
| 37.5° | 1512.8 | 1501.2 | 1497.3 | 1493.4 | 1497.3 | 1497.3 | 1497.3 | 1505.1 | 1512.8 | 1520.6 | 1532.3 |
| 40° | 1380.6 | 1372.9 | 1372.9 | 1372.9 | 1372.9 | 1384.6 | 1380.6 | 1388.4 | 1396.1 | 1407.8 | 1419.5 |
| 42.5° | 1256.2 | 1256.2 | 1260.1 | 1260.1 | 1260.1 | 1260.1 | 1267.8 | 1279.5 | 1291.2 | 1302.9 | 1314.5 |
| 45° | 1139.5 | 1139.5 | 1139.5 | 1147.3 | 1147.3 | 1151.1 | 1166.8 | 1174.5 | 1182.3 | 1193.9 | 1205.6 |
| 47.5° | 1030.6 | 1030.6 | 1034.4 | 1038.4 | 1042.3 | 1050.0 | 1057.8 | 1069.5 | 1081.2 | 1088.9 | 1100.6 |
| 50° | 929.5 | 933.3 | 941.2 | 948.9 | 948.9 | 952.9 | 964.5 | 972.3 | 980.1 | 991.7 | 995.6 |
| 52.5° | 832.2 | 840.0 | 847.9 | 851.7 | 855.6 | 863.4 | 867.3 | 879.0 | 882.8 | 894.5 | 898.4 |
| 55° | 742.8 | 746.8 | 758.3 | 762.3 | 762.3 | 770.0 | 777.9 | 785.6 | 797.3 | 797.3 | 805.1 |
| 57.5° | 661.2 | 665.0 | 672.8 | 676.7 | 672.8 | 684.4 | 688.3 | 696.1 | 700.0 | 707.8 | 711.7 |
| 60° | 579.5 | 587.3 | 591.2 | 591.2 | 595.0 | 598.9 | 606.7 | 606.7 | 614.4 | 622.3 | 622.3 |
| 62.5° | 501.7 | 505.6 | 509.5 | 513.3 | 517.3 | 513.3 | 525.0 | 525.0 | 532.8 | 536.7 | 544.5 |
| 65° | 427.9 | 431.7 | 431.7 | 435.6 | 435.6 | 439.4 | 439.4 | 443.4 | 447.3 | 455.0 | 458.9 |
| 67.5° | 353.9 | 353.9 | 353.9 | 357.8 | 353.9 | 357.8 | 357.8 | 361.7 | 361.7 | 369.4 | 373.4 |
| 70° | 287.8 | 284.0 | 280.0 | 280.0 | 280.0 | 280.0 | 276.1 | 280.0 | 280.0 | 284.0 | 284.0 |
| 72.5° | 221.6 | 217.8 | 213.9 | 210.0 | 210.0 | 206.1 | 202.2 | 206.1 | 206.1 | 210.0 | 210.0 |
| 75° | 167.3 | 159.5 | 159.5 | 159.5 | 155.6 | 155.6 | 155.6 | 159.5 | 159.5 | 159.5 | 163.3 |
| 77.5° | 124.5 | 124.5 | 120.5 | 120.5 | 120.5 | 124.5 | 124.5 | 128.4 | 128.4 | 128.4 | 128.4 |
| 80° | 93.3 | 97.3 | 97.3 | 97.3 | 97.3 | 101.1 | 101.1 | 101.1 | 101.1 | 105.0 | 105.0 |
| 82.5° | 70.0 | 70.0 | 70.0 | 70.0 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 |
| 85° | 42.8 | 46.6 | 46.6 | 42.8 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 87.5° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 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: P584846

CATALOG NUMBER: HCC8W50D010BZ-HM82555840-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 | 2737.9 |
| 2.5° | 2691.3 | 2691.3 | 2691.3 | 2691.3 | 2687.3 | 2687.3 | 2687.3 | 2683.4 |
| 5° | 2632.9 | 2632.9 | 2632.9 | 2625.1 | 2629.0 | 2629.0 | 2621.2 | 2625.1 |
| 7.5° | 2574.6 | 2570.6 | 2566.8 | 2566.8 | 2562.9 | 2559.1 | 2555.1 | 2559.1 |
| 10° | 2508.4 | 2496.8 | 2496.8 | 2492.9 | 2492.9 | 2485.1 | 2485.1 | 2489.0 |
| 12.5° | 2434.6 | 2426.7 | 2426.7 | 2422.9 | 2419.0 | 2415.2 | 2411.2 | 2411.2 |
| 15° | 2360.7 | 2352.8 | 2349.0 | 2345.1 | 2341.3 | 2333.4 | 2337.3 | 2333.4 |
| 17.5° | 2286.8 | 2275.1 | 2275.1 | 2271.3 | 2267.3 | 2259.6 | 2259.6 | 2255.7 |
| 20° | 2201.2 | 2197.4 | 2189.5 | 2193.4 | 2189.5 | 2181.8 | 2177.8 | 2177.8 |
| 22.5° | 2115.7 | 2115.7 | 2111.8 | 2111.8 | 2107.8 | 2104.0 | 2100.1 | 2100.1 |
| 25° | 2033.9 | 2030.1 | 2033.9 | 2033.9 | 2022.4 | 2022.4 | 2022.4 | 2026.2 |
| 27.5° | 1940.7 | 1944.5 | 1940.7 | 1940.7 | 1940.7 | 1940.7 | 1944.5 | 1940.7 |
| 30° | 1847.3 | 1847.3 | 1847.3 | 1851.2 | 1858.9 | 1855.1 | 1855.1 | 1851.2 |
| 32.5° | 1746.1 | 1750.1 | 1750.1 | 1754.0 | 1757.8 | 1765.7 | 1765.7 | 1769.5 |
| 35° | 1645.1 | 1652.8 | 1656.7 | 1652.8 | 1664.5 | 1664.5 | 1672.3 | 1672.3 |
| 37.5° | 1540.0 | 1544.0 | 1551.7 | 1555.6 | 1563.4 | 1567.3 | 1571.1 | 1571.1 |
| 40° | 1427.2 | 1442.9 | 1446.8 | 1450.6 | 1462.3 | 1462.3 | 1466.2 | 1474.0 |
| 42.5° | 1322.3 | 1337.8 | 1341.8 | 1345.6 | 1353.4 | 1365.0 | 1361.2 | 1368.9 |
| 45° | 1221.1 | 1232.8 | 1236.7 | 1240.7 | 1252.2 | 1256.2 | 1256.2 | 1267.8 |
| 47.5° | 1112.3 | 1120.0 | 1124.0 | 1131.7 | 1139.5 | 1147.3 | 1155.1 | 1151.1 |
| 50° | 1003.4 | 1015.0 | 1022.9 | 1026.7 | 1038.4 | 1042.3 | 1046.1 | 1050.0 |
| 52.5° | 906.2 | 913.9 | 917.8 | 921.8 | 933.3 | 937.3 | 941.2 | 948.9 |
| 55° | 812.8 | 816.7 | 824.5 | 820.6 | 832.2 | 836.2 | 840.0 | 847.9 |
| 57.5° | 719.5 | 723.4 | 727.2 | 727.2 | 735.1 | 742.8 | 746.8 | 750.6 |
| 60° | 630.0 | 637.8 | 641.7 | 641.7 | 641.7 | 649.5 | 649.5 | 649.5 |
| 62.5° | 548.4 | 548.4 | 552.2 | 552.2 | 560.1 | 560.1 | 560.1 | 560.1 |
| 65° | 462.8 | 466.7 | 470.5 | 470.5 | 478.4 | 474.5 | 482.2 | 478.4 |
| 67.5° | 373.4 | 373.4 | 381.1 | 381.1 | 377.2 | 381.1 | 381.1 | 381.1 |
| 70° | 284.0 | 284.0 | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 |
| 72.5° | 210.0 | 210.0 | 210.0 | 213.9 | 210.0 | 210.0 | 213.9 | 210.0 |
| 75° | 163.3 | 163.3 | 163.3 | 163.3 | 163.3 | 163.3 | 163.3 | 163.3 |
| 77.5° | 128.4 | 128.4 | 132.2 | 132.2 | 132.2 | 132.2 | 132.2 | 132.2 |
| 80° | 105.0 | 105.0 | 105.0 | 105.0 | 109.0 | 105.0 | 105.0 | 105.0 |
| 82.5° | 77.7 | 73.9 | 77.7 | 73.9 | 77.7 | 77.7 | 77.7 | 77.7 |
| 85° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 87.5° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 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)