

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: P584845

Luminaire Tested: **HCC8W50D010MW-HM82555840-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584845
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: HCC8W50D010MW-HM82555840-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

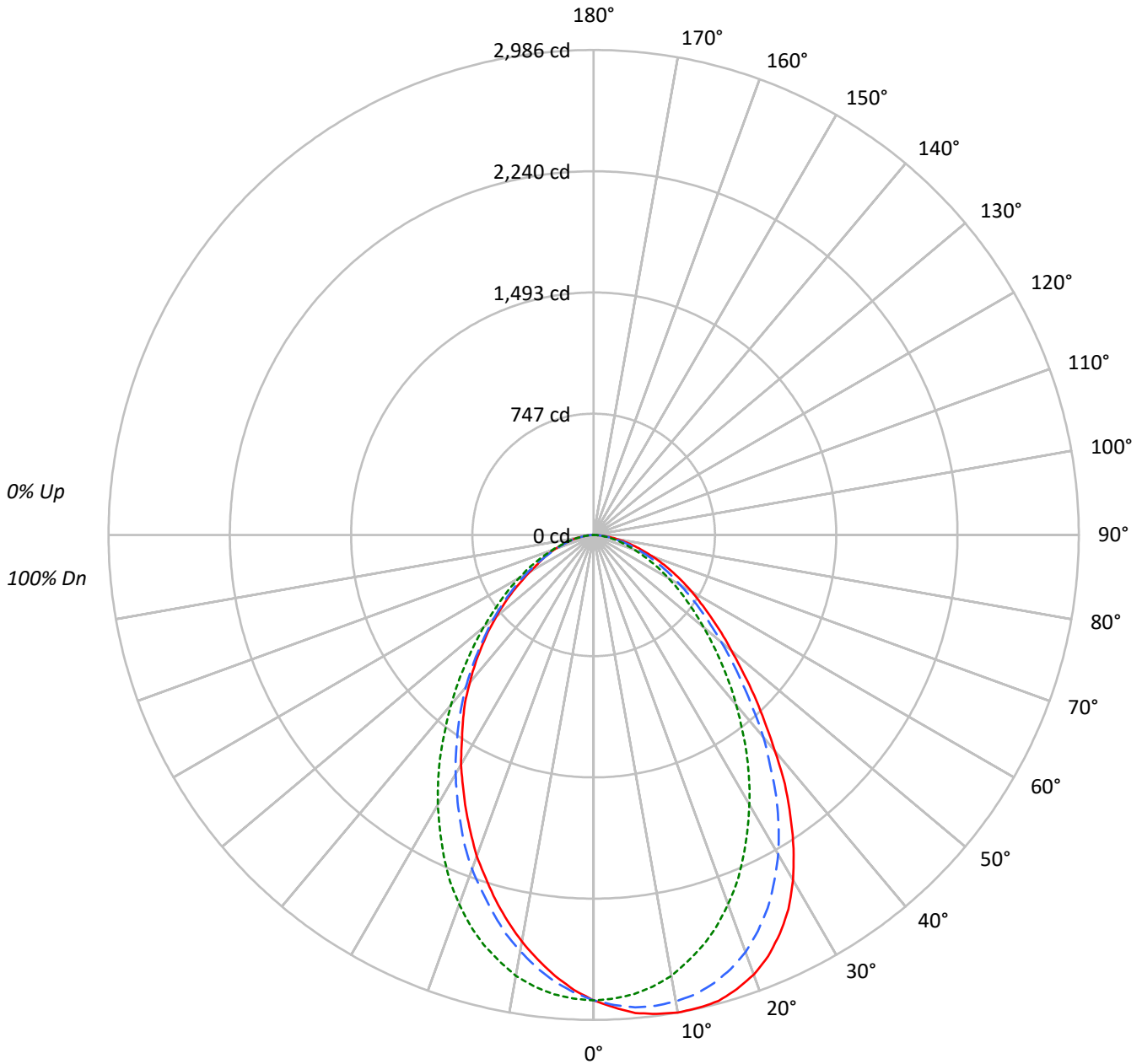
Lumens per Lamp: N/A
Luminaire Lumens: 5288.8 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584845
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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 | 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° | 88368 | 88368 | 88368 |
| 5° | 91472 | 87866 | 84375 |
| 10° | 93507 | 86324 | 79626 |
| 15° | 94840 | 83414 | 74354 |
| 20° | 94548 | 79364 | 69030 |
| 25° | 92212 | 74220 | 63373 |
| 30° | 87365 | 68255 | 58149 |
| 35° | 79482 | 61770 | 52841 |
| 40° | 69808 | 54939 | 47741 |
| 45° | 60874 | 48328 | 42563 |
| 50° | 52981 | 42346 | 37496 |
| 55° | 47240 | 37214 | 32612 |
| 60° | 42924 | 32619 | 27814 |
| 65° | 38591 | 28369 | 25246 |
| 70° | 34360 | 24190 | 22783 |
| 75° | 30107 | 20385 | 19456 |
| 80° | 25554 | 16568 | 17278 |
| 85° | 19282 | 12383 | 13763 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 268.4 | 5.1 |
| 10°-20° | 739.6 | 14.0 |
| 20°-30° | 1026.6 | 19.4 |
| 30°-40° | 1061.4 | 20.1 |
| 40°-50° | 888.7 | 16.8 |
| 50°-60° | 645.2 | 12.2 |
| 60°-70° | 407.1 | 7.7 |
| 70°-80° | 201.7 | 3.8 |
| 80°-90° | 50.1 | 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° | 2034.6 | 38.5 |
| 0°-40° | 3096.0 | 58.5 |
| 0°-60° | 4629.9 | 87.5 |
| 0°-90° | 5288.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5288.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2866 | 2866 | 2866 | 2866 | 2866 | |
| 5° | 2955 | 2920 | 2839 | 2761 | 2726 | 283 |
| 15° | 2971 | 2858 | 2613 | 2403 | 2329 | 836 |
| 25° | 2710 | 2535 | 2181 | 1944 | 1863 | 1242 |
| 35° | 2111 | 1956 | 1641 | 1454 | 1404 | 1315 |
| 45° | 1396 | 1295 | 1108 | 999 | 976 | 1080 |
| 55° | 879 | 801 | 692 | 634 | 607 | 793 |
| 65° | 529 | 463 | 389 | 342 | 346 | 527 |
| 75° | 253 | 210 | 171 | 163 | 163 | 271 |
| 85° | 54 | 43 | 35 | 39 | 39 | 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° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2912.4 | 2912.4 | 2916.3 | 2912.4 | 2912.4 | 2912.4 | 2908.5 | 2908.5 | 2904.6 | 2904.6 | 2896.9 |
| 5° | 2955.1 | 2947.4 | 2955.1 | 2947.4 | 2947.4 | 2947.4 | 2943.5 | 2935.7 | 2931.9 | 2924.0 | 2920.2 |
| 7.5° | 2974.6 | 2970.8 | 2970.8 | 2966.8 | 2966.8 | 2962.9 | 2959.1 | 2955.1 | 2939.6 | 2935.7 | 2924.0 |
| 10° | 2986.3 | 2982.4 | 2982.4 | 2978.5 | 2970.8 | 2970.8 | 2962.9 | 2959.1 | 2939.6 | 2931.9 | 2916.3 |
| 12.5° | 2982.4 | 2982.4 | 2982.4 | 2978.5 | 2966.8 | 2962.9 | 2955.1 | 2943.5 | 2928.0 | 2912.4 | 2896.9 |
| 15° | 2970.8 | 2970.8 | 2962.9 | 2959.1 | 2947.4 | 2939.6 | 2935.7 | 2916.3 | 2900.8 | 2881.2 | 2858.0 |
| 17.5° | 2931.9 | 2931.9 | 2928.0 | 2920.2 | 2908.5 | 2900.8 | 2892.9 | 2873.5 | 2858.0 | 2826.9 | 2803.5 |
| 20° | 2881.2 | 2877.4 | 2873.5 | 2861.8 | 2850.1 | 2846.3 | 2834.6 | 2807.4 | 2787.9 | 2764.7 | 2733.5 |
| 22.5° | 2807.4 | 2803.5 | 2799.6 | 2791.8 | 2772.4 | 2764.7 | 2756.9 | 2737.4 | 2702.4 | 2679.1 | 2640.2 |
| 25° | 2710.2 | 2710.2 | 2702.4 | 2690.8 | 2671.3 | 2663.6 | 2651.9 | 2632.5 | 2601.4 | 2566.3 | 2535.2 |
| 27.5° | 2597.4 | 2593.5 | 2581.9 | 2574.1 | 2558.6 | 2546.9 | 2527.5 | 2504.1 | 2473.0 | 2445.8 | 2406.9 |
| 30° | 2453.6 | 2453.6 | 2445.8 | 2434.1 | 2414.7 | 2406.9 | 2391.3 | 2364.2 | 2333.0 | 2298.0 | 2270.8 |
| 32.5° | 2290.3 | 2290.3 | 2278.6 | 2270.8 | 2259.1 | 2239.7 | 2235.8 | 2204.7 | 2177.5 | 2150.3 | 2119.2 |
| 35° | 2111.4 | 2115.3 | 2107.5 | 2091.9 | 2072.5 | 2072.5 | 2064.7 | 2037.6 | 2006.4 | 1979.2 | 1955.9 |
| 37.5° | 1932.5 | 1920.9 | 1916.9 | 1909.2 | 1897.5 | 1882.0 | 1874.1 | 1862.6 | 1835.3 | 1815.9 | 1780.9 |
| 40° | 1734.2 | 1738.1 | 1730.4 | 1722.5 | 1718.7 | 1707.0 | 1703.1 | 1683.7 | 1664.2 | 1640.9 | 1625.4 |
| 42.5° | 1555.4 | 1555.4 | 1555.4 | 1547.5 | 1539.8 | 1528.1 | 1524.3 | 1512.6 | 1489.3 | 1473.6 | 1450.4 |
| 45° | 1395.9 | 1384.2 | 1384.2 | 1380.4 | 1376.5 | 1368.7 | 1357.1 | 1349.3 | 1333.7 | 1322.0 | 1294.8 |
| 47.5° | 1240.4 | 1244.3 | 1240.4 | 1236.5 | 1224.9 | 1220.9 | 1217.0 | 1201.5 | 1186.0 | 1174.3 | 1154.9 |
| 50° | 1104.4 | 1112.1 | 1104.4 | 1104.4 | 1096.5 | 1092.7 | 1084.8 | 1073.1 | 1061.6 | 1042.0 | 1022.6 |
| 52.5° | 991.5 | 991.5 | 987.7 | 983.7 | 972.1 | 964.3 | 960.5 | 956.6 | 937.1 | 921.5 | 906.0 |
| 55° | 878.7 | 882.7 | 882.7 | 871.0 | 867.2 | 859.3 | 855.5 | 843.8 | 836.0 | 812.7 | 801.0 |
| 57.5° | 781.6 | 777.6 | 781.6 | 773.8 | 766.0 | 758.2 | 754.4 | 746.5 | 735.0 | 719.4 | 703.9 |
| 60° | 696.0 | 688.2 | 688.2 | 684.3 | 676.6 | 672.6 | 664.9 | 653.2 | 641.5 | 626.0 | 614.3 |
| 62.5° | 610.5 | 606.6 | 602.7 | 598.8 | 591.0 | 587.2 | 583.2 | 571.6 | 560.0 | 548.3 | 536.6 |
| 65° | 528.9 | 528.9 | 524.9 | 517.2 | 513.3 | 509.3 | 505.5 | 497.8 | 482.2 | 474.4 | 462.7 |
| 67.5° | 455.0 | 451.0 | 451.0 | 443.3 | 435.5 | 431.6 | 431.6 | 423.9 | 412.2 | 400.5 | 392.8 |
| 70° | 381.1 | 385.0 | 381.1 | 377.1 | 369.4 | 369.4 | 361.6 | 357.7 | 342.2 | 338.3 | 326.6 |
| 72.5° | 314.9 | 314.9 | 311.1 | 311.1 | 303.2 | 299.4 | 299.4 | 291.7 | 283.8 | 276.1 | 268.3 |
| 75° | 252.7 | 252.7 | 252.7 | 248.9 | 245.0 | 237.2 | 237.2 | 233.3 | 225.5 | 217.8 | 210.0 |
| 77.5° | 198.3 | 194.4 | 194.4 | 190.5 | 186.7 | 182.7 | 182.7 | 178.9 | 171.1 | 167.2 | 159.5 |
| 80° | 143.9 | 139.9 | 139.9 | 139.9 | 132.2 | 136.1 | 132.2 | 128.4 | 124.4 | 120.5 | 116.7 |
| 82.5° | 93.3 | 97.3 | 97.3 | 93.3 | 89.4 | 89.4 | 89.4 | 85.6 | 85.6 | 81.7 | 77.7 |
| 85° | 54.5 | 54.5 | 54.5 | 54.5 | 50.5 | 50.5 | 50.5 | 46.6 | 46.6 | 46.6 | 42.8 |
| 87.5° | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2896.9 | 2889.1 | 2885.2 | 2881.2 | 2881.2 | 2877.4 | 2873.5 | 2865.7 | 2865.7 | 2858.0 | 2854.1 |
| 5° | 2912.4 | 2900.8 | 2892.9 | 2885.2 | 2881.2 | 2873.5 | 2865.7 | 2854.1 | 2850.1 | 2838.6 | 2826.9 |
| 7.5° | 2916.3 | 2896.9 | 2889.1 | 2873.5 | 2865.7 | 2858.0 | 2842.4 | 2830.7 | 2815.2 | 2803.5 | 2787.9 |
| 10° | 2900.8 | 2885.2 | 2865.7 | 2846.3 | 2842.4 | 2830.7 | 2807.4 | 2791.8 | 2772.4 | 2756.9 | 2733.5 |
| 12.5° | 2877.4 | 2854.1 | 2834.6 | 2811.3 | 2799.6 | 2787.9 | 2764.7 | 2741.3 | 2714.1 | 2686.8 | 2663.6 |
| 15° | 2838.6 | 2811.3 | 2784.1 | 2756.9 | 2741.3 | 2729.6 | 2702.4 | 2675.3 | 2648.0 | 2612.9 | 2589.7 |
| 17.5° | 2780.2 | 2749.1 | 2721.9 | 2686.8 | 2671.3 | 2659.7 | 2624.6 | 2593.5 | 2558.6 | 2523.5 | 2500.3 |
| 20° | 2706.4 | 2667.4 | 2636.3 | 2597.4 | 2585.8 | 2566.3 | 2531.4 | 2496.3 | 2457.5 | 2418.5 | 2391.3 |
| 22.5° | 2609.1 | 2570.2 | 2535.2 | 2496.3 | 2476.9 | 2457.5 | 2422.5 | 2379.7 | 2340.8 | 2309.7 | 2282.5 |
| 25° | 2496.3 | 2461.3 | 2418.5 | 2383.6 | 2360.2 | 2336.9 | 2298.0 | 2263.1 | 2228.0 | 2181.4 | 2154.1 |
| 27.5° | 2371.9 | 2329.1 | 2298.0 | 2251.4 | 2228.0 | 2212.4 | 2169.7 | 2123.0 | 2091.9 | 2049.1 | 2018.0 |
| 30° | 2232.0 | 2193.0 | 2158.1 | 2111.4 | 2088.1 | 2072.5 | 2033.6 | 1990.8 | 1959.7 | 1916.9 | 1885.8 |
| 32.5° | 2084.2 | 2041.4 | 1998.6 | 1967.5 | 1940.3 | 1924.8 | 1882.0 | 1854.7 | 1815.9 | 1780.9 | 1745.9 |
| 35° | 1924.8 | 1882.0 | 1850.9 | 1808.1 | 1792.5 | 1777.0 | 1742.0 | 1707.0 | 1672.0 | 1640.9 | 1613.7 |
| 37.5° | 1753.6 | 1722.5 | 1687.6 | 1656.5 | 1644.8 | 1629.2 | 1586.4 | 1555.4 | 1528.1 | 1497.0 | 1473.6 |
| 40° | 1586.4 | 1559.2 | 1535.9 | 1504.9 | 1485.3 | 1473.6 | 1442.5 | 1415.4 | 1384.2 | 1364.8 | 1341.5 |
| 42.5° | 1434.8 | 1403.7 | 1380.4 | 1357.1 | 1337.6 | 1325.9 | 1298.8 | 1279.2 | 1256.0 | 1236.5 | 1209.3 |
| 45° | 1275.4 | 1259.8 | 1232.6 | 1213.2 | 1201.5 | 1186.0 | 1166.5 | 1143.2 | 1123.8 | 1108.2 | 1088.7 |
| 47.5° | 1135.4 | 1119.9 | 1100.4 | 1077.1 | 1069.3 | 1057.6 | 1038.2 | 1022.6 | 1007.1 | 991.5 | 972.1 |
| 50° | 1007.1 | 987.7 | 972.1 | 956.6 | 948.8 | 937.1 | 917.7 | 909.8 | 898.3 | 882.7 | 871.0 |
| 52.5° | 890.4 | 874.9 | 859.3 | 839.9 | 836.0 | 828.2 | 816.5 | 801.0 | 789.3 | 781.6 | 773.8 |
| 55° | 785.5 | 769.9 | 758.2 | 742.7 | 738.8 | 731.0 | 715.4 | 707.7 | 699.9 | 692.2 | 684.3 |
| 57.5° | 692.2 | 676.6 | 661.1 | 653.2 | 645.5 | 637.7 | 633.8 | 622.1 | 614.3 | 610.5 | 602.7 |
| 60° | 606.6 | 591.0 | 579.4 | 567.7 | 563.8 | 560.0 | 552.1 | 544.4 | 536.6 | 528.9 | 524.9 |
| 62.5° | 524.9 | 509.3 | 501.6 | 493.8 | 486.1 | 486.1 | 478.2 | 470.5 | 462.7 | 458.8 | 451.0 |
| 65° | 451.0 | 443.3 | 431.6 | 419.9 | 416.0 | 416.0 | 404.4 | 400.5 | 396.6 | 388.8 | 381.1 |
| 67.5° | 381.1 | 373.3 | 361.6 | 357.7 | 353.9 | 350.0 | 346.0 | 338.3 | 330.5 | 326.6 | 318.9 |
| 70° | 318.9 | 311.1 | 303.2 | 299.4 | 295.5 | 291.7 | 283.8 | 280.0 | 272.1 | 268.3 | 264.4 |
| 72.5° | 256.6 | 252.7 | 245.0 | 241.0 | 237.2 | 233.3 | 229.4 | 225.5 | 217.8 | 213.8 | 210.0 |
| 75° | 206.1 | 202.2 | 194.4 | 190.5 | 186.7 | 186.7 | 182.7 | 175.0 | 171.1 | 171.1 | 167.2 |
| 77.5° | 155.5 | 151.6 | 147.8 | 143.9 | 139.9 | 139.9 | 136.1 | 132.2 | 128.4 | 128.4 | 124.4 |
| 80° | 112.8 | 108.8 | 105.0 | 105.0 | 105.0 | 101.1 | 97.3 | 97.3 | 93.3 | 93.3 | 89.4 |
| 82.5° | 73.9 | 73.9 | 70.0 | 70.0 | 70.0 | 66.0 | 66.0 | 62.2 | 62.2 | 62.2 | 62.2 |
| 85° | 42.8 | 42.8 | 42.8 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 35.0 | 38.9 |
| 87.5° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 15.5 | 15.5 | 15.5 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2850.1 | 2846.3 | 2838.6 | 2838.6 | 2830.7 | 2830.7 | 2826.9 | 2823.0 | 2819.0 | 2815.2 | 2811.3 |
| 5° | 2823.0 | 2807.4 | 2799.6 | 2795.8 | 2787.9 | 2784.1 | 2772.4 | 2764.7 | 2760.7 | 2753.0 | 2745.2 |
| 7.5° | 2772.4 | 2756.9 | 2741.3 | 2737.4 | 2733.5 | 2717.9 | 2706.4 | 2694.7 | 2686.8 | 2679.1 | 2671.3 |
| 10° | 2714.1 | 2698.5 | 2679.1 | 2671.3 | 2663.6 | 2644.0 | 2628.5 | 2616.9 | 2601.4 | 2585.8 | 2581.9 |
| 12.5° | 2644.0 | 2620.8 | 2597.4 | 2589.7 | 2578.0 | 2558.6 | 2543.0 | 2523.5 | 2511.9 | 2492.4 | 2488.6 |
| 15° | 2562.4 | 2535.2 | 2515.8 | 2496.3 | 2488.6 | 2469.2 | 2441.9 | 2426.4 | 2403.0 | 2395.3 | 2375.8 |
| 17.5° | 2465.2 | 2438.1 | 2410.8 | 2403.0 | 2391.3 | 2364.2 | 2336.9 | 2317.4 | 2294.2 | 2282.5 | 2270.8 |
| 20° | 2364.2 | 2329.1 | 2301.9 | 2294.2 | 2278.6 | 2255.2 | 2228.0 | 2208.6 | 2189.2 | 2165.8 | 2154.1 |
| 22.5° | 2247.5 | 2208.6 | 2185.2 | 2165.8 | 2161.9 | 2134.7 | 2103.6 | 2088.1 | 2072.5 | 2053.1 | 2037.6 |
| 25° | 2119.2 | 2084.2 | 2057.0 | 2041.4 | 2033.6 | 2010.3 | 1986.9 | 1967.5 | 1944.2 | 1932.5 | 1913.1 |
| 27.5° | 1986.9 | 1963.7 | 1928.6 | 1913.1 | 1901.4 | 1882.0 | 1854.7 | 1843.0 | 1819.8 | 1804.2 | 1792.5 |
| 30° | 1858.6 | 1823.6 | 1804.2 | 1784.7 | 1773.1 | 1753.6 | 1730.4 | 1718.7 | 1699.3 | 1683.7 | 1672.0 |
| 32.5° | 1718.7 | 1695.3 | 1668.2 | 1660.3 | 1644.8 | 1625.4 | 1609.8 | 1590.3 | 1574.8 | 1559.2 | 1555.4 |
| 35° | 1590.3 | 1559.2 | 1532.0 | 1524.3 | 1512.6 | 1493.2 | 1485.3 | 1473.6 | 1454.2 | 1450.4 | 1434.8 |
| 37.5° | 1450.4 | 1434.8 | 1403.7 | 1392.0 | 1388.2 | 1372.6 | 1357.1 | 1349.3 | 1337.6 | 1325.9 | 1322.0 |
| 40° | 1318.2 | 1298.8 | 1283.2 | 1271.5 | 1263.7 | 1252.1 | 1236.5 | 1232.6 | 1224.9 | 1209.3 | 1205.4 |
| 42.5° | 1193.8 | 1174.3 | 1158.7 | 1154.9 | 1143.2 | 1131.5 | 1123.8 | 1112.1 | 1108.2 | 1104.4 | 1096.5 |
| 45° | 1073.1 | 1061.6 | 1046.0 | 1042.0 | 1038.2 | 1022.6 | 1014.8 | 1007.1 | 999.3 | 995.4 | 987.7 |
| 47.5° | 964.3 | 952.6 | 941.0 | 937.1 | 929.4 | 925.4 | 913.8 | 909.8 | 898.3 | 894.3 | 890.4 |
| 50° | 859.3 | 851.5 | 843.8 | 839.9 | 832.1 | 828.2 | 820.4 | 812.7 | 804.9 | 801.0 | 797.1 |
| 52.5° | 766.0 | 758.2 | 750.5 | 746.5 | 742.7 | 735.0 | 727.1 | 719.4 | 715.4 | 711.6 | 707.7 |
| 55° | 676.6 | 668.8 | 664.9 | 661.1 | 657.1 | 653.2 | 641.5 | 637.7 | 633.8 | 630.0 | 622.1 |
| 57.5° | 594.9 | 587.2 | 579.4 | 579.4 | 575.5 | 571.6 | 563.8 | 556.1 | 556.1 | 548.3 | 540.4 |
| 60° | 521.0 | 513.3 | 505.5 | 501.6 | 497.8 | 489.9 | 486.1 | 482.2 | 478.2 | 474.4 | 466.5 |
| 62.5° | 443.3 | 439.4 | 431.6 | 431.6 | 423.9 | 419.9 | 416.0 | 412.2 | 408.3 | 400.5 | 396.6 |
| 65° | 377.1 | 373.3 | 365.5 | 361.6 | 361.6 | 357.7 | 350.0 | 346.0 | 342.2 | 342.2 | 338.3 |
| 67.5° | 314.9 | 311.1 | 303.2 | 299.4 | 299.4 | 295.5 | 291.7 | 291.7 | 287.7 | 283.8 | 287.7 |
| 70° | 260.6 | 252.7 | 252.7 | 248.9 | 248.9 | 245.0 | 241.0 | 241.0 | 241.0 | 245.0 | 245.0 |
| 72.5° | 206.1 | 202.2 | 198.3 | 198.3 | 198.3 | 198.3 | 194.4 | 194.4 | 198.3 | 202.2 | 202.2 |
| 75° | 163.3 | 159.5 | 159.5 | 159.5 | 155.5 | 155.5 | 159.5 | 159.5 | 163.3 | 163.3 | 163.3 |
| 77.5° | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 124.4 | 124.4 | 128.4 | 128.4 | 128.4 |
| 80° | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 97.3 |
| 82.5° | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 66.0 | 66.0 | 66.0 | 66.0 |
| 85° | 35.0 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| 87.5° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 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: P584845

CATALOG NUMBER: HCC8W50D010MW-HM82555840-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2807.4 | 2807.4 | 2807.4 | 2811.3 | 2803.5 | 2803.5 | 2803.5 | 2803.5 |
| 5° | 2741.3 | 2737.4 | 2733.5 | 2737.4 | 2729.6 | 2729.6 | 2725.8 | 2725.8 |
| 7.5° | 2659.7 | 2655.7 | 2651.9 | 2651.9 | 2644.0 | 2644.0 | 2640.2 | 2636.3 |
| 10° | 2570.2 | 2562.4 | 2566.3 | 2558.6 | 2554.6 | 2550.8 | 2546.9 | 2543.0 |
| 12.5° | 2473.0 | 2465.2 | 2461.3 | 2453.6 | 2445.8 | 2441.9 | 2445.8 | 2438.1 |
| 15° | 2368.0 | 2356.4 | 2352.5 | 2344.7 | 2336.9 | 2333.0 | 2333.0 | 2329.1 |
| 17.5° | 2251.4 | 2243.5 | 2239.7 | 2232.0 | 2228.0 | 2220.3 | 2216.4 | 2212.4 |
| 20° | 2142.5 | 2123.0 | 2127.0 | 2119.2 | 2115.3 | 2099.8 | 2099.8 | 2103.6 |
| 22.5° | 2021.9 | 2010.3 | 2002.5 | 1994.8 | 1990.8 | 1983.1 | 1983.1 | 1979.2 |
| 25° | 1901.4 | 1889.8 | 1885.8 | 1878.1 | 1874.1 | 1866.4 | 1862.6 | 1862.6 |
| 27.5° | 1784.7 | 1769.2 | 1769.2 | 1761.4 | 1753.6 | 1749.8 | 1745.9 | 1742.0 |
| 30° | 1660.3 | 1648.6 | 1644.8 | 1644.8 | 1640.9 | 1640.9 | 1629.2 | 1633.1 |
| 32.5° | 1543.7 | 1535.9 | 1532.0 | 1524.3 | 1524.3 | 1520.4 | 1520.4 | 1508.7 |
| 35° | 1427.0 | 1415.4 | 1419.3 | 1411.5 | 1407.6 | 1403.7 | 1407.6 | 1403.7 |
| 37.5° | 1314.3 | 1306.5 | 1306.5 | 1298.8 | 1298.8 | 1294.8 | 1290.9 | 1298.8 |
| 40° | 1201.5 | 1197.6 | 1193.8 | 1189.8 | 1193.8 | 1189.8 | 1182.1 | 1186.0 |
| 42.5° | 1088.7 | 1088.7 | 1084.8 | 1084.8 | 1081.0 | 1081.0 | 1081.0 | 1081.0 |
| 45° | 987.7 | 983.7 | 983.7 | 979.9 | 979.9 | 979.9 | 979.9 | 976.0 |
| 47.5° | 886.6 | 882.7 | 882.7 | 882.7 | 878.7 | 878.7 | 874.9 | 878.7 |
| 50° | 789.3 | 789.3 | 785.5 | 785.5 | 789.3 | 785.5 | 781.6 | 781.6 |
| 52.5° | 699.9 | 699.9 | 696.0 | 696.0 | 692.2 | 688.2 | 692.2 | 692.2 |
| 55° | 618.3 | 614.3 | 610.5 | 610.5 | 606.6 | 602.7 | 602.7 | 606.6 |
| 57.5° | 540.4 | 536.6 | 532.7 | 532.7 | 524.9 | 521.0 | 521.0 | 521.0 |
| 60° | 466.5 | 458.8 | 458.8 | 455.0 | 455.0 | 451.0 | 451.0 | 451.0 |
| 62.5° | 396.6 | 392.8 | 392.8 | 392.8 | 392.8 | 388.8 | 388.8 | 388.8 |
| 65° | 338.3 | 338.3 | 338.3 | 342.2 | 342.2 | 346.0 | 346.0 | 346.0 |
| 67.5° | 291.7 | 295.5 | 295.5 | 295.5 | 299.4 | 299.4 | 299.4 | 295.5 |
| 70° | 248.9 | 248.9 | 248.9 | 252.7 | 252.7 | 252.7 | 252.7 | 252.7 |
| 72.5° | 206.1 | 206.1 | 206.1 | 206.1 | 206.1 | 206.1 | 206.1 | 206.1 |
| 75° | 163.3 | 167.2 | 167.2 | 167.2 | 163.3 | 167.2 | 167.2 | 163.3 |
| 77.5° | 128.4 | 128.4 | 128.4 | 128.4 | 128.4 | 128.4 | 128.4 | 128.4 |
| 80° | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 |
| 82.5° | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 |
| 85° | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| 87.5° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 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)