

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: P584828

Luminaire Tested: **HCC8W50D010MB-HM82555835-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584828
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: HCC8W50D010MB-HM82555835-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

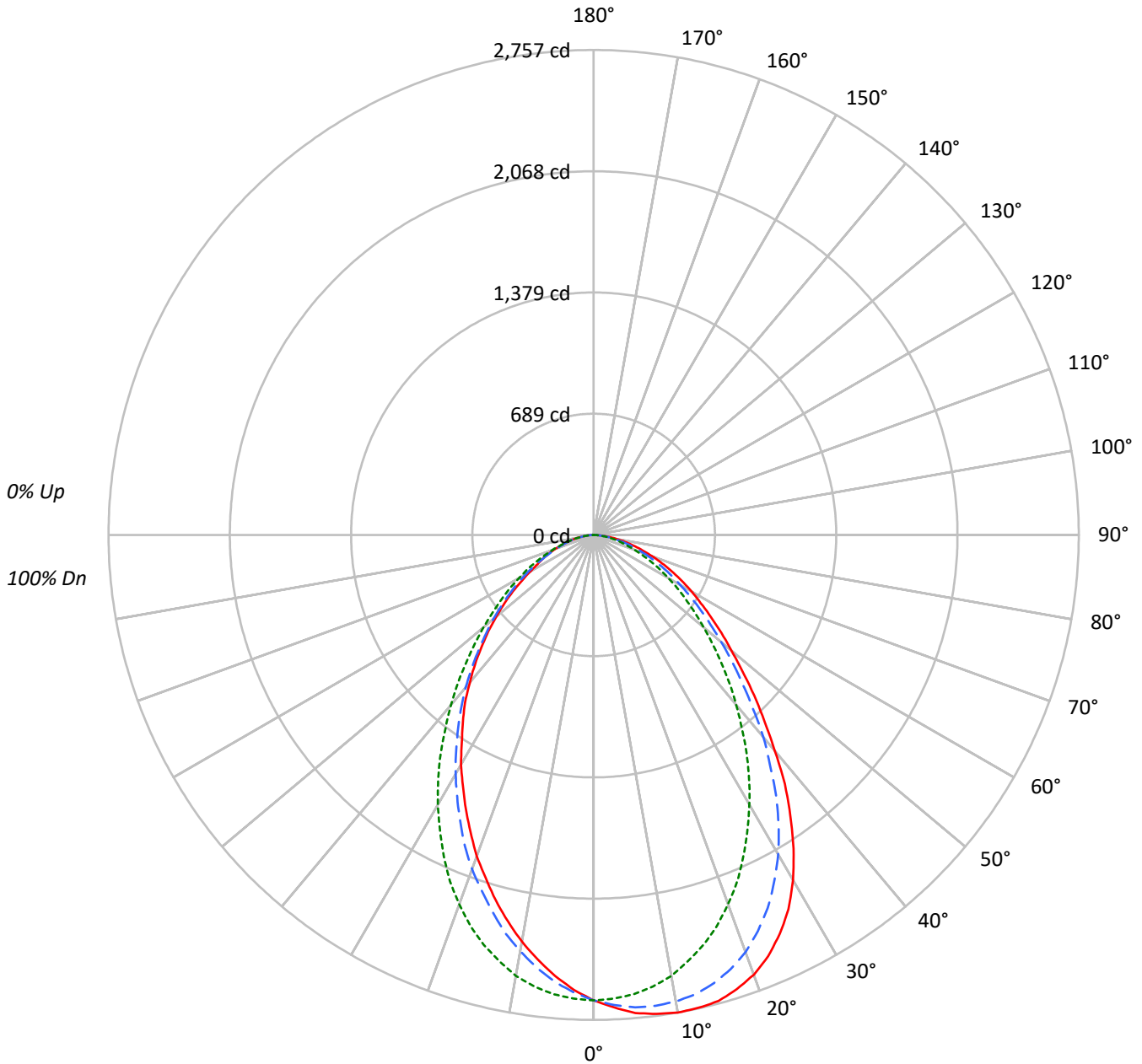
Lumens per Lamp: N/A
Luminaire Lumens: 4883.2 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584828
CATALOG NUMBER: HCC8W50D010MB-HM82555835-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584828

CATALOG NUMBER: HCC8W50D010MB-HM82555835-81WWW

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° | 81590 | 81590 | 81590 |
| 5° | 84461 | 81128 | 77902 |
| 10° | 86337 | 79705 | 73517 |
| 15° | 87565 | 77020 | 68653 |
| 20° | 87299 | 73280 | 63737 |
| 25° | 85142 | 68528 | 58511 |
| 30° | 80663 | 63024 | 53691 |
| 35° | 73384 | 57031 | 48791 |
| 40° | 64455 | 50728 | 44078 |
| 45° | 56203 | 44621 | 39301 |
| 50° | 48913 | 39098 | 34617 |
| 55° | 43622 | 34359 | 30112 |
| 60° | 39631 | 30115 | 25687 |
| 65° | 35629 | 26194 | 23312 |
| 70° | 31727 | 22332 | 21034 |
| 75° | 27796 | 18813 | 17967 |
| 80° | 23583 | 15307 | 15947 |
| 85° | 17796 | 11428 | 12702 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.8 | 5.1 |
| 10°-20° | 682.9 | 14.0 |
| 20°-30° | 947.9 | 19.4 |
| 30°-40° | 980.0 | 20.1 |
| 40°-50° | 820.6 | 16.8 |
| 50°-60° | 595.7 | 12.2 |
| 60°-70° | 375.9 | 7.7 |
| 70°-80° | 186.2 | 3.8 |
| 80°-90° | 46.3 | 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° | 1878.6 | 38.5 |
| 0°-40° | 2858.6 | 58.5 |
| 0°-60° | 4274.8 | 87.5 |
| 0°-90° | 4883.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4883.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2646 | 2646 | 2646 | 2646 | 2646 | |
| 5° | 2729 | 2696 | 2621 | 2549 | 2517 | 261 |
| 15° | 2743 | 2639 | 2413 | 2219 | 2150 | 772 |
| 25° | 2502 | 2341 | 2014 | 1795 | 1720 | 1147 |
| 35° | 1949 | 1806 | 1515 | 1343 | 1296 | 1214 |
| 45° | 1289 | 1196 | 1023 | 923 | 901 | 997 |
| 55° | 811 | 740 | 639 | 585 | 560 | 732 |
| 65° | 488 | 427 | 359 | 316 | 320 | 487 |
| 75° | 233 | 194 | 158 | 151 | 151 | 250 |
| 85° | 50 | 40 | 32 | 36 | 36 | 61 |
| 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° | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 |
| 2.5° | 2689.1 | 2689.1 | 2692.7 | 2689.1 | 2689.1 | 2689.1 | 2685.4 | 2685.4 | 2681.9 | 2681.9 | 2674.7 |
| 5° | 2728.6 | 2721.3 | 2728.6 | 2721.3 | 2721.3 | 2721.3 | 2717.8 | 2710.6 | 2707.1 | 2699.8 | 2696.2 |
| 7.5° | 2746.4 | 2742.9 | 2742.9 | 2739.3 | 2739.3 | 2735.7 | 2732.2 | 2728.6 | 2714.2 | 2710.6 | 2699.8 |
| 10° | 2757.3 | 2753.7 | 2753.7 | 2750.1 | 2742.9 | 2742.9 | 2735.7 | 2732.2 | 2714.2 | 2707.1 | 2692.7 |
| 12.5° | 2753.7 | 2753.7 | 2753.7 | 2750.1 | 2739.3 | 2735.7 | 2728.6 | 2717.8 | 2703.4 | 2689.1 | 2674.7 |
| 15° | 2742.9 | 2742.9 | 2735.7 | 2732.2 | 2721.3 | 2714.2 | 2710.6 | 2692.7 | 2678.3 | 2660.3 | 2638.8 |
| 17.5° | 2707.1 | 2707.1 | 2703.4 | 2696.2 | 2685.4 | 2678.3 | 2671.0 | 2653.2 | 2638.8 | 2610.0 | 2588.5 |
| 20° | 2660.3 | 2656.8 | 2653.2 | 2642.4 | 2631.7 | 2628.0 | 2617.3 | 2592.1 | 2574.1 | 2552.6 | 2523.9 |
| 22.5° | 2592.1 | 2588.5 | 2584.9 | 2577.8 | 2559.8 | 2552.6 | 2545.5 | 2527.5 | 2495.2 | 2473.6 | 2437.7 |
| 25° | 2502.4 | 2502.4 | 2495.2 | 2484.4 | 2466.5 | 2459.2 | 2448.5 | 2430.6 | 2401.8 | 2369.6 | 2340.8 |
| 27.5° | 2398.2 | 2394.7 | 2383.9 | 2376.7 | 2362.3 | 2351.6 | 2333.7 | 2312.0 | 2283.4 | 2258.3 | 2222.4 |
| 30° | 2265.4 | 2265.4 | 2258.3 | 2247.5 | 2229.5 | 2222.4 | 2208.0 | 2182.9 | 2154.1 | 2121.9 | 2096.7 |
| 32.5° | 2114.6 | 2114.6 | 2103.8 | 2096.7 | 2085.8 | 2068.0 | 2064.3 | 2035.7 | 2010.6 | 1985.4 | 1956.7 |
| 35° | 1949.4 | 1953.0 | 1945.9 | 1931.5 | 1913.5 | 1913.5 | 1906.4 | 1881.3 | 1852.5 | 1827.4 | 1805.9 |
| 37.5° | 1784.4 | 1773.6 | 1770.0 | 1762.7 | 1752.0 | 1737.6 | 1730.5 | 1719.7 | 1694.6 | 1676.6 | 1644.3 |
| 40° | 1601.2 | 1604.8 | 1597.7 | 1590.4 | 1586.9 | 1576.0 | 1572.5 | 1554.5 | 1536.7 | 1515.0 | 1500.6 |
| 42.5° | 1436.1 | 1436.1 | 1436.1 | 1428.9 | 1421.7 | 1411.0 | 1407.4 | 1396.6 | 1375.1 | 1360.7 | 1339.1 |
| 45° | 1288.8 | 1278.1 | 1278.1 | 1274.6 | 1270.9 | 1263.8 | 1252.9 | 1245.8 | 1231.4 | 1220.7 | 1195.5 |
| 47.5° | 1145.3 | 1148.9 | 1145.3 | 1141.6 | 1130.9 | 1127.3 | 1123.8 | 1109.4 | 1095.0 | 1084.2 | 1066.2 |
| 50° | 1019.6 | 1026.8 | 1019.6 | 1019.6 | 1012.5 | 1008.8 | 1001.7 | 990.8 | 980.1 | 962.2 | 944.2 |
| 52.5° | 915.4 | 915.4 | 911.9 | 908.3 | 897.6 | 890.3 | 886.8 | 883.2 | 865.3 | 850.9 | 836.5 |
| 55° | 811.4 | 815.0 | 815.0 | 804.2 | 800.6 | 793.4 | 789.9 | 779.0 | 771.9 | 750.4 | 739.6 |
| 57.5° | 721.6 | 718.0 | 721.6 | 714.5 | 707.2 | 700.1 | 696.5 | 689.4 | 678.6 | 664.2 | 649.8 |
| 60° | 642.6 | 635.5 | 635.5 | 631.8 | 624.7 | 621.1 | 614.0 | 603.2 | 592.3 | 578.1 | 567.2 |
| 62.5° | 563.7 | 560.1 | 556.4 | 552.9 | 545.7 | 542.1 | 538.6 | 527.8 | 516.9 | 506.2 | 495.4 |
| 65° | 488.3 | 488.3 | 484.7 | 477.5 | 473.9 | 470.3 | 466.8 | 459.5 | 445.2 | 438.0 | 427.3 |
| 67.5° | 420.0 | 416.5 | 416.5 | 409.3 | 402.1 | 398.5 | 398.5 | 391.4 | 380.5 | 369.8 | 362.6 |
| 70° | 351.9 | 355.4 | 351.9 | 348.2 | 341.1 | 341.1 | 333.9 | 330.2 | 316.0 | 312.4 | 301.6 |
| 72.5° | 290.8 | 290.8 | 287.2 | 287.2 | 280.1 | 276.5 | 276.5 | 269.2 | 262.1 | 255.0 | 247.7 |
| 75° | 233.3 | 233.3 | 233.3 | 229.8 | 226.2 | 219.0 | 219.0 | 215.4 | 208.2 | 201.1 | 193.8 |
| 77.5° | 183.1 | 179.6 | 179.6 | 175.9 | 172.3 | 168.7 | 168.7 | 165.2 | 157.9 | 154.4 | 147.2 |
| 80° | 132.8 | 129.3 | 129.3 | 129.3 | 122.0 | 125.7 | 122.0 | 118.4 | 114.9 | 111.3 | 107.7 |
| 82.5° | 86.2 | 89.8 | 89.8 | 86.2 | 82.5 | 82.5 | 82.5 | 79.0 | 79.0 | 75.4 | 71.8 |
| 85° | 50.3 | 50.3 | 50.3 | 50.3 | 46.6 | 46.6 | 46.6 | 43.1 | 43.1 | 43.1 | 39.5 |
| 87.5° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 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° | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 |
| 2.5° | 2674.7 | 2667.5 | 2663.9 | 2660.3 | 2660.3 | 2656.8 | 2653.2 | 2645.9 | 2645.9 | 2638.8 | 2635.2 |
| 5° | 2689.1 | 2678.3 | 2671.0 | 2663.9 | 2660.3 | 2653.2 | 2645.9 | 2635.2 | 2631.7 | 2620.9 | 2610.0 |
| 7.5° | 2692.7 | 2674.7 | 2667.5 | 2653.2 | 2645.9 | 2638.8 | 2624.4 | 2613.7 | 2599.3 | 2588.5 | 2574.1 |
| 10° | 2678.3 | 2663.9 | 2645.9 | 2628.0 | 2624.4 | 2613.7 | 2592.1 | 2577.8 | 2559.8 | 2545.5 | 2523.9 |
| 12.5° | 2656.8 | 2635.2 | 2617.3 | 2595.8 | 2584.9 | 2574.1 | 2552.6 | 2531.1 | 2506.0 | 2480.9 | 2459.2 |
| 15° | 2620.9 | 2595.8 | 2570.6 | 2545.5 | 2531.1 | 2520.4 | 2495.2 | 2470.1 | 2445.0 | 2412.6 | 2391.1 |
| 17.5° | 2567.0 | 2538.2 | 2513.1 | 2480.9 | 2466.5 | 2455.7 | 2423.3 | 2394.7 | 2362.3 | 2330.1 | 2308.5 |
| 20° | 2498.7 | 2462.8 | 2434.2 | 2398.2 | 2387.4 | 2369.6 | 2337.2 | 2304.9 | 2269.0 | 2233.1 | 2208.0 |
| 22.5° | 2409.1 | 2373.1 | 2340.8 | 2304.9 | 2286.9 | 2269.0 | 2236.6 | 2197.3 | 2161.2 | 2132.6 | 2107.5 |
| 25° | 2304.9 | 2272.5 | 2233.1 | 2200.8 | 2179.2 | 2157.7 | 2121.9 | 2089.5 | 2057.2 | 2014.1 | 1988.9 |
| 27.5° | 2190.0 | 2150.5 | 2121.9 | 2078.7 | 2057.2 | 2042.8 | 2003.3 | 1960.3 | 1931.5 | 1892.0 | 1863.3 |
| 30° | 2060.7 | 2024.8 | 1992.6 | 1949.4 | 1927.9 | 1913.5 | 1877.6 | 1838.1 | 1809.5 | 1770.0 | 1741.2 |
| 32.5° | 1924.3 | 1884.9 | 1845.4 | 1816.6 | 1791.5 | 1777.1 | 1737.6 | 1712.5 | 1676.6 | 1644.3 | 1612.1 |
| 35° | 1777.1 | 1737.6 | 1709.0 | 1669.4 | 1655.1 | 1640.7 | 1608.4 | 1576.0 | 1543.8 | 1515.0 | 1489.9 |
| 37.5° | 1619.2 | 1590.4 | 1558.2 | 1529.4 | 1518.6 | 1504.3 | 1464.8 | 1436.1 | 1411.0 | 1382.2 | 1360.7 |
| 40° | 1464.8 | 1439.6 | 1418.1 | 1389.4 | 1371.5 | 1360.7 | 1332.0 | 1306.8 | 1278.1 | 1260.2 | 1238.7 |
| 42.5° | 1324.8 | 1296.1 | 1274.6 | 1252.9 | 1235.0 | 1224.3 | 1199.2 | 1181.2 | 1159.6 | 1141.6 | 1116.5 |
| 45° | 1177.5 | 1163.3 | 1138.1 | 1120.1 | 1109.4 | 1095.0 | 1077.0 | 1055.5 | 1037.6 | 1023.2 | 1005.2 |
| 47.5° | 1048.4 | 1034.0 | 1016.0 | 994.5 | 987.3 | 976.6 | 958.6 | 944.2 | 929.8 | 915.4 | 897.6 |
| 50° | 929.8 | 911.9 | 897.6 | 883.2 | 876.0 | 865.3 | 847.3 | 840.2 | 829.3 | 815.0 | 804.2 |
| 52.5° | 822.2 | 807.8 | 793.4 | 775.5 | 771.9 | 764.8 | 753.9 | 739.6 | 728.8 | 721.6 | 714.5 |
| 55° | 725.2 | 710.9 | 700.1 | 685.7 | 682.1 | 675.0 | 660.6 | 653.5 | 646.2 | 639.1 | 631.8 |
| 57.5° | 639.1 | 624.7 | 610.3 | 603.2 | 596.0 | 588.8 | 585.2 | 574.4 | 567.2 | 563.7 | 556.4 |
| 60° | 560.1 | 545.7 | 534.9 | 524.2 | 520.6 | 516.9 | 509.8 | 502.7 | 495.4 | 488.3 | 484.7 |
| 62.5° | 484.7 | 470.3 | 463.2 | 455.9 | 448.8 | 448.8 | 441.6 | 434.4 | 427.3 | 423.6 | 416.5 |
| 65° | 416.5 | 409.3 | 398.5 | 387.8 | 384.1 | 384.1 | 373.4 | 369.8 | 366.2 | 359.0 | 351.9 |
| 67.5° | 351.9 | 344.6 | 333.9 | 330.2 | 326.7 | 323.1 | 319.5 | 312.4 | 305.1 | 301.6 | 294.4 |
| 70° | 294.4 | 287.2 | 280.1 | 276.5 | 272.8 | 269.2 | 262.1 | 258.5 | 251.3 | 247.7 | 244.1 |
| 72.5° | 237.0 | 233.3 | 226.2 | 222.6 | 219.0 | 215.4 | 211.8 | 208.2 | 201.1 | 197.4 | 193.8 |
| 75° | 190.3 | 186.7 | 179.6 | 175.9 | 172.3 | 172.3 | 168.7 | 161.6 | 157.9 | 157.9 | 154.4 |
| 77.5° | 143.6 | 140.0 | 136.4 | 132.8 | 129.3 | 129.3 | 125.7 | 122.0 | 118.4 | 118.4 | 114.9 |
| 80° | 104.2 | 100.5 | 96.9 | 96.9 | 96.9 | 93.4 | 89.8 | 89.8 | 86.2 | 86.2 | 82.5 |
| 82.5° | 68.3 | 68.3 | 64.6 | 64.6 | 64.6 | 61.0 | 61.0 | 57.4 | 57.4 | 57.4 | 57.4 |
| 85° | 39.5 | 39.5 | 39.5 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 32.3 | 35.9 |
| 87.5° | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 14.4 | 14.4 | 14.4 |
| 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° | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 |
| 2.5° | 2631.7 | 2628.0 | 2620.9 | 2620.9 | 2613.7 | 2613.7 | 2610.0 | 2606.5 | 2602.9 | 2599.3 | 2595.8 |
| 5° | 2606.5 | 2592.1 | 2584.9 | 2581.4 | 2574.1 | 2570.6 | 2559.8 | 2552.6 | 2549.0 | 2541.9 | 2534.6 |
| 7.5° | 2559.8 | 2545.5 | 2531.1 | 2527.5 | 2523.9 | 2509.5 | 2498.7 | 2488.0 | 2480.9 | 2473.6 | 2466.5 |
| 10° | 2506.0 | 2491.6 | 2473.6 | 2466.5 | 2459.2 | 2441.3 | 2427.0 | 2416.2 | 2401.8 | 2387.4 | 2383.9 |
| 12.5° | 2441.3 | 2419.8 | 2398.2 | 2391.1 | 2380.3 | 2362.3 | 2347.9 | 2330.1 | 2319.3 | 2301.3 | 2297.7 |
| 15° | 2365.9 | 2340.8 | 2322.8 | 2304.9 | 2297.7 | 2279.8 | 2254.7 | 2240.3 | 2218.8 | 2211.5 | 2193.6 |
| 17.5° | 2276.2 | 2251.0 | 2225.9 | 2218.8 | 2208.0 | 2182.9 | 2157.7 | 2139.7 | 2118.2 | 2107.5 | 2096.7 |
| 20° | 2182.9 | 2150.5 | 2125.4 | 2118.2 | 2103.8 | 2082.3 | 2057.2 | 2039.2 | 2021.3 | 1999.7 | 1988.9 |
| 22.5° | 2075.1 | 2039.2 | 2017.7 | 1999.7 | 1996.2 | 1971.1 | 1942.3 | 1927.9 | 1913.5 | 1895.7 | 1881.3 |
| 25° | 1956.7 | 1924.3 | 1899.2 | 1884.9 | 1877.6 | 1856.1 | 1834.6 | 1816.6 | 1795.1 | 1784.4 | 1766.4 |
| 27.5° | 1834.6 | 1813.0 | 1780.7 | 1766.4 | 1755.6 | 1737.6 | 1712.5 | 1701.7 | 1680.2 | 1665.8 | 1655.1 |
| 30° | 1716.1 | 1683.8 | 1665.8 | 1647.9 | 1637.2 | 1619.2 | 1597.7 | 1586.9 | 1568.9 | 1554.5 | 1543.8 |
| 32.5° | 1586.9 | 1565.3 | 1540.2 | 1533.0 | 1518.6 | 1500.6 | 1486.4 | 1468.4 | 1454.0 | 1439.6 | 1436.1 |
| 35° | 1468.4 | 1439.6 | 1414.5 | 1407.4 | 1396.6 | 1378.6 | 1371.5 | 1360.7 | 1342.7 | 1339.1 | 1324.8 |
| 37.5° | 1339.1 | 1324.8 | 1296.1 | 1285.3 | 1281.7 | 1267.3 | 1252.9 | 1245.8 | 1235.0 | 1224.3 | 1220.7 |
| 40° | 1217.0 | 1199.2 | 1184.8 | 1174.0 | 1166.8 | 1156.0 | 1141.6 | 1138.1 | 1130.9 | 1116.5 | 1113.0 |
| 42.5° | 1102.1 | 1084.2 | 1069.9 | 1066.2 | 1055.5 | 1044.7 | 1037.6 | 1026.8 | 1023.2 | 1019.6 | 1012.5 |
| 45° | 990.8 | 980.1 | 965.7 | 962.2 | 958.6 | 944.2 | 937.1 | 929.8 | 922.7 | 919.1 | 911.9 |
| 47.5° | 890.3 | 879.6 | 868.8 | 865.3 | 858.0 | 854.4 | 843.7 | 840.2 | 829.3 | 825.8 | 822.2 |
| 50° | 793.4 | 786.3 | 779.0 | 775.5 | 768.3 | 764.8 | 757.5 | 750.4 | 743.1 | 739.6 | 736.0 |
| 52.5° | 707.2 | 700.1 | 692.9 | 689.4 | 685.7 | 678.6 | 671.4 | 664.2 | 660.6 | 657.0 | 653.5 |
| 55° | 624.7 | 617.5 | 614.0 | 610.3 | 606.7 | 603.2 | 592.3 | 588.8 | 585.2 | 581.6 | 574.4 |
| 57.5° | 549.3 | 542.1 | 534.9 | 534.9 | 531.3 | 527.8 | 520.6 | 513.4 | 513.4 | 506.2 | 499.0 |
| 60° | 481.0 | 473.9 | 466.8 | 463.2 | 459.5 | 452.4 | 448.8 | 445.2 | 441.6 | 438.0 | 430.8 |
| 62.5° | 409.3 | 405.6 | 398.5 | 398.5 | 391.4 | 387.8 | 384.1 | 380.5 | 377.0 | 369.8 | 366.2 |
| 65° | 348.2 | 344.6 | 337.5 | 333.9 | 333.9 | 330.2 | 323.1 | 319.5 | 316.0 | 316.0 | 312.4 |
| 67.5° | 290.8 | 287.2 | 280.1 | 276.5 | 276.5 | 272.8 | 269.2 | 269.2 | 265.7 | 262.1 | 265.7 |
| 70° | 240.6 | 233.3 | 233.3 | 229.8 | 229.8 | 226.2 | 222.6 | 222.6 | 222.6 | 226.2 | 226.2 |
| 72.5° | 190.3 | 186.7 | 183.1 | 183.1 | 183.1 | 183.1 | 179.6 | 179.6 | 183.1 | 186.7 | 186.7 |
| 75° | 150.8 | 147.2 | 147.2 | 147.2 | 143.6 | 143.6 | 147.2 | 147.2 | 150.8 | 150.8 | 150.8 |
| 77.5° | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 114.9 | 114.9 | 118.4 | 118.4 | 118.4 |
| 80° | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 89.8 |
| 82.5° | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 61.0 | 61.0 | 61.0 | 61.0 |
| 85° | 32.3 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 87.5° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 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: P584828

CATALOG NUMBER: HCC8W50D010MB-HM82555835-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 | 2645.9 |
| 2.5° | 2592.1 | 2592.1 | 2592.1 | 2595.8 | 2588.5 | 2588.5 | 2588.5 | 2588.5 |
| 5° | 2531.1 | 2527.5 | 2523.9 | 2527.5 | 2520.4 | 2520.4 | 2516.7 | 2516.7 |
| 7.5° | 2455.7 | 2452.1 | 2448.5 | 2448.5 | 2441.3 | 2441.3 | 2437.7 | 2434.2 |
| 10° | 2373.1 | 2365.9 | 2369.6 | 2362.3 | 2358.8 | 2355.2 | 2351.6 | 2347.9 |
| 12.5° | 2283.4 | 2276.2 | 2272.5 | 2265.4 | 2258.3 | 2254.7 | 2258.3 | 2251.0 |
| 15° | 2186.4 | 2175.6 | 2172.1 | 2164.9 | 2157.7 | 2154.1 | 2154.1 | 2150.5 |
| 17.5° | 2078.7 | 2071.6 | 2068.0 | 2060.7 | 2057.2 | 2050.0 | 2046.5 | 2042.8 |
| 20° | 1978.2 | 1960.3 | 1963.8 | 1956.7 | 1953.0 | 1938.7 | 1938.7 | 1942.3 |
| 22.5° | 1866.9 | 1856.1 | 1849.0 | 1841.8 | 1838.1 | 1831.0 | 1831.0 | 1827.4 |
| 25° | 1755.6 | 1744.8 | 1741.2 | 1734.1 | 1730.5 | 1723.3 | 1719.7 | 1719.7 |
| 27.5° | 1647.9 | 1633.6 | 1633.6 | 1626.3 | 1619.2 | 1615.6 | 1612.1 | 1608.4 |
| 30° | 1533.0 | 1522.3 | 1518.6 | 1518.6 | 1515.0 | 1515.0 | 1504.3 | 1507.9 |
| 32.5° | 1425.4 | 1418.1 | 1414.5 | 1407.4 | 1407.4 | 1403.7 | 1403.7 | 1393.0 |
| 35° | 1317.6 | 1306.8 | 1310.4 | 1303.2 | 1299.7 | 1296.1 | 1299.7 | 1296.1 |
| 37.5° | 1213.5 | 1206.3 | 1206.3 | 1199.2 | 1199.2 | 1195.5 | 1191.9 | 1199.2 |
| 40° | 1109.4 | 1105.8 | 1102.1 | 1098.6 | 1102.1 | 1098.6 | 1091.4 | 1095.0 |
| 42.5° | 1005.2 | 1005.2 | 1001.7 | 1001.7 | 998.1 | 998.1 | 998.1 | 998.1 |
| 45° | 911.9 | 908.3 | 908.3 | 904.7 | 904.7 | 904.7 | 904.7 | 901.2 |
| 47.5° | 818.5 | 815.0 | 815.0 | 815.0 | 811.4 | 811.4 | 807.8 | 811.4 |
| 50° | 728.8 | 728.8 | 725.2 | 725.2 | 728.8 | 725.2 | 721.6 | 721.6 |
| 52.5° | 646.2 | 646.2 | 642.6 | 642.6 | 639.1 | 635.5 | 639.1 | 639.1 |
| 55° | 570.8 | 567.2 | 563.7 | 563.7 | 560.1 | 556.4 | 556.4 | 560.1 |
| 57.5° | 499.0 | 495.4 | 491.8 | 491.8 | 484.7 | 481.0 | 481.0 | 481.0 |
| 60° | 430.8 | 423.6 | 423.6 | 420.0 | 420.0 | 416.5 | 416.5 | 416.5 |
| 62.5° | 366.2 | 362.6 | 362.6 | 362.6 | 362.6 | 359.0 | 359.0 | 359.0 |
| 65° | 312.4 | 312.4 | 312.4 | 316.0 | 316.0 | 319.5 | 319.5 | 319.5 |
| 67.5° | 269.2 | 272.8 | 272.8 | 272.8 | 276.5 | 276.5 | 276.5 | 272.8 |
| 70° | 229.8 | 229.8 | 229.8 | 233.3 | 233.3 | 233.3 | 233.3 | 233.3 |
| 72.5° | 190.3 | 190.3 | 190.3 | 190.3 | 190.3 | 190.3 | 190.3 | 190.3 |
| 75° | 150.8 | 154.4 | 154.4 | 154.4 | 150.8 | 154.4 | 154.4 | 150.8 |
| 77.5° | 118.4 | 118.4 | 118.4 | 118.4 | 118.4 | 118.4 | 118.4 | 118.4 |
| 80° | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 |
| 82.5° | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 |
| 85° | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 87.5° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 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)