

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: P584844

Luminaire Tested: **HCC8S50D010BZ-HM82555840-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S50D010BZ-HM82555840-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

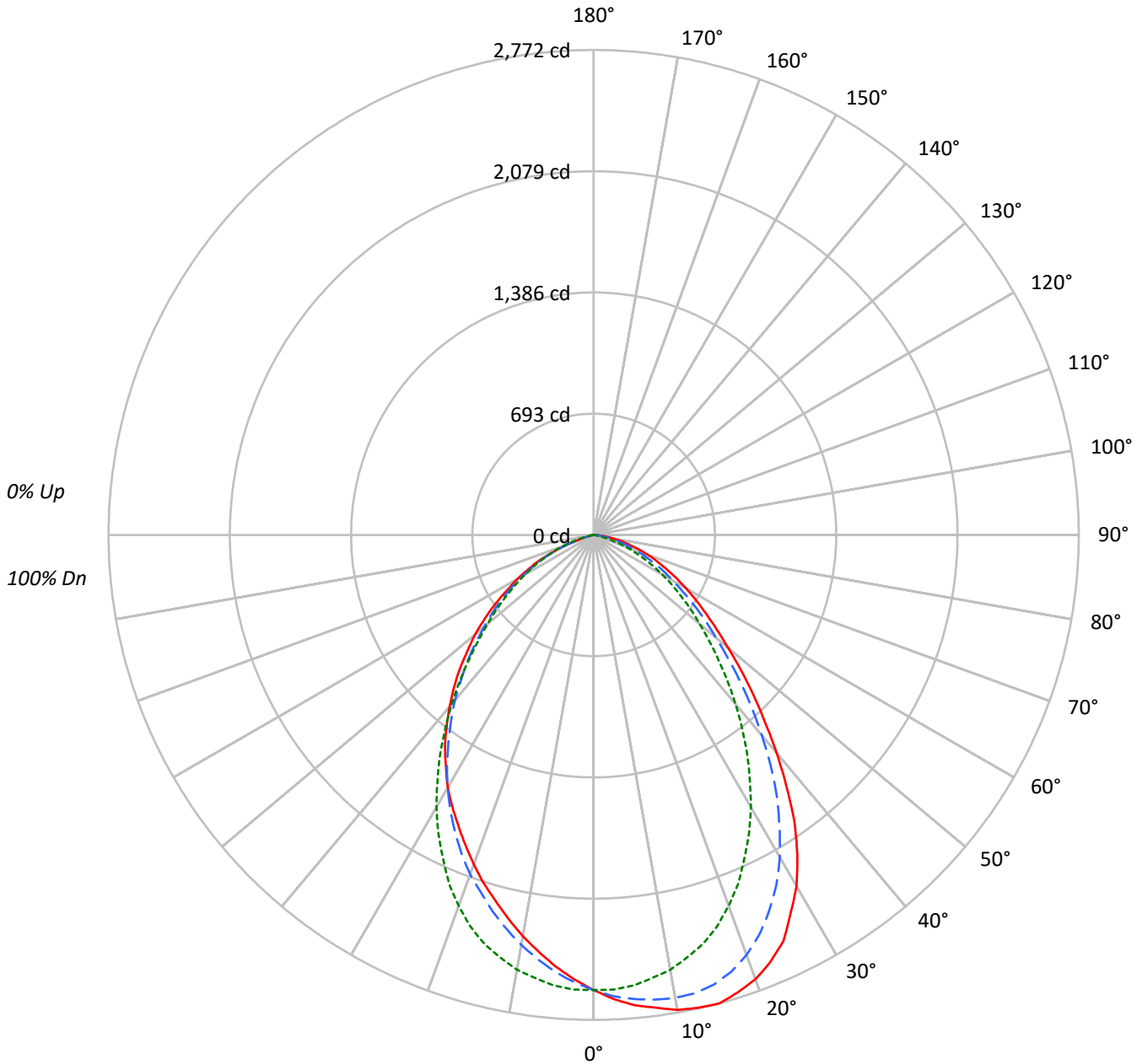
Lumens per Lamp: N/A
Luminaire Lumens: 4845.5 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584844
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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 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 80218 | 80218 | 80218 |
| 5° | 83530 | 80041 | 76670 |
| 10° | 86324 | 79016 | 72929 |
| 15° | 88506 | 77208 | 69141 |
| 20° | 88683 | 74005 | 65713 |
| 25° | 87183 | 69328 | 62315 |
| 30° | 82519 | 63964 | 59399 |
| 35° | 75236 | 57524 | 55770 |
| 40° | 65429 | 50712 | 51493 |
| 45° | 56129 | 43919 | 47141 |
| 50° | 47944 | 37865 | 42346 |
| 55° | 42020 | 32612 | 36789 |
| 60° | 37411 | 27814 | 30935 |
| 65° | 33199 | 22699 | 24684 |
| 70° | 29446 | 16833 | 14029 |
| 75° | 24555 | 8805 | 4170 |
| 80° | 19321 | 2752 | 693 |
| 85° | 13763 | 1380 | 0 |



TEST NUMBER: P584844

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 245.1 | 5.1 |
| 10°-20° | 687.0 | 14.2 |
| 20°-30° | 972.4 | 20.1 |
| 30°-40° | 1017.3 | 21.0 |
| 40°-50° | 848.5 | 17.5 |
| 50°-60° | 601.7 | 12.4 |
| 60°-70° | 346.6 | 7.2 |
| 70°-80° | 111.5 | 2.3 |
| 80°-90° | 15.3 | 0.3 |
| 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° | 1904.5 | 39.3 |
| 0°-40° | 2921.8 | 60.3 |
| 0°-60° | 4372.1 | 90.2 |
| 0°-90° | 4845.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4845.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2601 | 2601 | 2601 | 2601 | 2601 | |
| 5° | 2698 | 2664 | 2586 | 2508 | 2477 | 259 |
| 15° | 2772 | 2660 | 2418 | 2228 | 2166 | 780 |
| 25° | 2562 | 2372 | 2038 | 1874 | 1832 | 1169 |
| 35° | 1999 | 1824 | 1528 | 1446 | 1482 | 1239 |
| 45° | 1287 | 1182 | 1007 | 1019 | 1081 | 997 |
| 55° | 782 | 700 | 607 | 638 | 684 | 706 |
| 65° | 455 | 381 | 311 | 311 | 338 | 455 |
| 75° | 206 | 152 | 74 | 35 | 35 | 223 |
| 85° | 39 | 19 | 4 | 0 | 0 | 49 |
| 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° | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 |
| 2.5° | 2655.7 | 2651.9 | 2648.0 | 2651.9 | 2648.0 | 2651.9 | 2648.0 | 2648.0 | 2644.2 | 2640.2 | 2640.2 |
| 5° | 2698.5 | 2694.7 | 2694.7 | 2694.7 | 2690.8 | 2686.9 | 2686.9 | 2683.0 | 2675.3 | 2671.3 | 2663.6 |
| 7.5° | 2725.8 | 2729.6 | 2729.6 | 2729.6 | 2721.9 | 2721.9 | 2714.1 | 2706.4 | 2698.5 | 2690.8 | 2679.1 |
| 10° | 2756.9 | 2756.9 | 2753.0 | 2749.1 | 2741.3 | 2737.4 | 2733.6 | 2725.8 | 2714.1 | 2698.5 | 2686.9 |
| 12.5° | 2768.5 | 2768.5 | 2764.7 | 2756.9 | 2753.0 | 2749.1 | 2745.2 | 2733.6 | 2718.0 | 2698.5 | 2683.0 |
| 15° | 2772.4 | 2764.7 | 2760.8 | 2756.9 | 2749.1 | 2737.4 | 2737.4 | 2721.9 | 2702.5 | 2679.1 | 2659.7 |
| 17.5° | 2741.3 | 2745.2 | 2737.4 | 2729.6 | 2718.0 | 2710.2 | 2698.5 | 2686.9 | 2663.6 | 2636.3 | 2616.9 |
| 20° | 2702.5 | 2698.5 | 2694.7 | 2683.0 | 2667.4 | 2663.6 | 2651.9 | 2632.5 | 2613.1 | 2581.9 | 2554.7 |
| 22.5° | 2640.2 | 2636.3 | 2628.6 | 2620.8 | 2605.2 | 2597.4 | 2585.8 | 2562.4 | 2535.2 | 2504.1 | 2473.0 |
| 25° | 2562.4 | 2554.7 | 2543.0 | 2527.5 | 2515.8 | 2508.0 | 2492.4 | 2469.2 | 2438.1 | 2403.0 | 2371.9 |
| 27.5° | 2438.1 | 2449.6 | 2441.9 | 2418.5 | 2407.0 | 2391.4 | 2387.4 | 2356.4 | 2329.1 | 2294.2 | 2259.2 |
| 30° | 2317.5 | 2317.5 | 2305.9 | 2294.2 | 2274.8 | 2263.1 | 2247.5 | 2224.1 | 2196.9 | 2154.2 | 2127.0 |
| 32.5° | 2165.8 | 2161.9 | 2146.4 | 2142.5 | 2127.0 | 2103.6 | 2099.8 | 2068.7 | 2041.4 | 2010.3 | 1975.3 |
| 35° | 1998.6 | 1990.9 | 1975.3 | 1963.7 | 1955.9 | 1944.2 | 1932.6 | 1905.4 | 1878.1 | 1847.0 | 1823.6 |
| 37.5° | 1808.1 | 1808.1 | 1804.2 | 1784.8 | 1777.0 | 1769.3 | 1757.6 | 1730.4 | 1714.8 | 1683.7 | 1660.3 |
| 40° | 1625.4 | 1621.5 | 1609.8 | 1605.9 | 1598.1 | 1586.4 | 1578.7 | 1563.2 | 1539.8 | 1516.4 | 1493.2 |
| 42.5° | 1446.5 | 1450.4 | 1434.8 | 1438.7 | 1423.1 | 1415.4 | 1411.5 | 1388.2 | 1376.5 | 1353.1 | 1333.7 |
| 45° | 1287.1 | 1283.2 | 1275.4 | 1271.5 | 1263.7 | 1256.0 | 1248.1 | 1236.6 | 1217.0 | 1193.8 | 1182.1 |
| 47.5° | 1139.3 | 1127.6 | 1127.6 | 1123.8 | 1119.9 | 1104.4 | 1100.4 | 1088.8 | 1077.1 | 1053.7 | 1038.2 |
| 50° | 999.4 | 999.4 | 999.4 | 995.4 | 983.7 | 979.9 | 972.1 | 960.5 | 948.8 | 933.2 | 909.8 |
| 52.5° | 886.6 | 886.6 | 886.6 | 882.7 | 867.2 | 863.2 | 859.3 | 843.8 | 828.2 | 816.5 | 801.0 |
| 55° | 781.6 | 785.5 | 781.6 | 773.8 | 762.1 | 762.1 | 750.5 | 742.7 | 727.1 | 715.4 | 699.9 |
| 57.5° | 692.2 | 692.2 | 684.3 | 680.5 | 672.6 | 668.8 | 661.1 | 653.2 | 633.8 | 622.1 | 602.7 |
| 60° | 606.6 | 602.7 | 602.7 | 594.9 | 587.2 | 579.4 | 575.5 | 563.8 | 556.1 | 536.6 | 521.0 |
| 62.5° | 528.9 | 528.9 | 521.0 | 521.0 | 505.5 | 505.5 | 501.6 | 489.9 | 478.2 | 458.8 | 451.0 |
| 65° | 455.0 | 455.0 | 451.0 | 447.1 | 435.5 | 431.6 | 427.7 | 416.0 | 404.4 | 392.8 | 381.1 |
| 67.5° | 388.8 | 388.8 | 381.1 | 377.1 | 369.4 | 365.5 | 357.7 | 350.0 | 338.3 | 326.6 | 314.9 |
| 70° | 326.6 | 322.8 | 318.9 | 314.9 | 307.2 | 303.2 | 295.5 | 287.7 | 276.1 | 268.3 | 256.6 |
| 72.5° | 264.4 | 264.4 | 260.6 | 252.7 | 248.9 | 245.0 | 241.0 | 233.3 | 221.6 | 210.0 | 202.2 |
| 75° | 206.1 | 206.1 | 206.1 | 198.3 | 190.5 | 186.7 | 186.7 | 178.9 | 171.1 | 159.5 | 151.6 |
| 77.5° | 159.5 | 155.6 | 151.6 | 151.6 | 143.9 | 139.9 | 136.1 | 132.2 | 120.5 | 116.7 | 108.8 |
| 80° | 108.8 | 112.8 | 108.8 | 105.0 | 101.1 | 97.3 | 97.3 | 89.4 | 85.6 | 77.7 | 70.0 |
| 82.5° | 73.9 | 70.0 | 70.0 | 66.0 | 66.0 | 62.2 | 62.2 | 54.5 | 50.5 | 46.6 | 42.8 |
| 85° | 38.9 | 38.9 | 35.0 | 35.0 | 35.0 | 31.1 | 31.1 | 27.2 | 27.2 | 23.4 | 19.4 |
| 87.5° | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 7.8 | 7.8 | 7.8 |
| 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 |
| 2.5° | 2636.3 | 2628.6 | 2624.6 | 2624.6 | 2620.8 | 2616.9 | 2613.1 | 2609.1 | 2601.4 | 2601.4 | 2593.5 |
| 5° | 2655.7 | 2648.0 | 2644.2 | 2632.5 | 2624.6 | 2624.6 | 2609.1 | 2605.2 | 2593.5 | 2585.8 | 2578.0 |
| 7.5° | 2671.3 | 2655.7 | 2644.2 | 2632.5 | 2624.6 | 2616.9 | 2601.4 | 2585.8 | 2570.3 | 2554.7 | 2546.9 |
| 10° | 2671.3 | 2655.7 | 2636.3 | 2616.9 | 2609.1 | 2601.4 | 2581.9 | 2558.6 | 2539.2 | 2523.5 | 2504.1 |
| 12.5° | 2663.6 | 2640.2 | 2616.9 | 2601.4 | 2585.8 | 2574.1 | 2550.8 | 2527.5 | 2504.1 | 2473.0 | 2457.5 |
| 15° | 2640.2 | 2609.1 | 2585.8 | 2558.6 | 2546.9 | 2527.5 | 2508.0 | 2473.0 | 2445.8 | 2418.5 | 2399.1 |
| 17.5° | 2593.5 | 2554.7 | 2527.5 | 2500.3 | 2480.9 | 2469.2 | 2438.1 | 2407.0 | 2375.9 | 2344.7 | 2321.4 |
| 20° | 2523.5 | 2488.6 | 2457.5 | 2422.5 | 2407.0 | 2391.4 | 2352.5 | 2321.4 | 2290.3 | 2255.2 | 2232.0 |
| 22.5° | 2438.1 | 2403.0 | 2360.2 | 2333.1 | 2309.7 | 2290.3 | 2255.2 | 2220.3 | 2189.2 | 2158.1 | 2127.0 |
| 25° | 2333.1 | 2298.0 | 2259.2 | 2216.4 | 2200.9 | 2181.4 | 2142.5 | 2107.5 | 2072.5 | 2037.6 | 2010.3 |
| 27.5° | 2220.3 | 2173.6 | 2142.5 | 2095.9 | 2080.4 | 2060.8 | 2018.0 | 1979.2 | 1948.1 | 1920.9 | 1889.8 |
| 30° | 2084.2 | 2049.1 | 2006.5 | 1963.7 | 1948.1 | 1928.6 | 1893.7 | 1858.7 | 1827.5 | 1796.4 | 1765.3 |
| 32.5° | 1936.4 | 1901.4 | 1858.7 | 1827.5 | 1804.2 | 1788.7 | 1753.6 | 1722.5 | 1691.4 | 1660.3 | 1633.1 |
| 35° | 1780.9 | 1742.0 | 1710.9 | 1679.7 | 1660.3 | 1640.9 | 1605.9 | 1578.7 | 1555.4 | 1528.1 | 1500.9 |
| 37.5° | 1621.5 | 1594.3 | 1563.2 | 1528.1 | 1508.7 | 1493.2 | 1465.9 | 1434.8 | 1415.4 | 1392.0 | 1372.6 |
| 40° | 1465.9 | 1434.8 | 1407.6 | 1376.5 | 1360.9 | 1349.3 | 1322.0 | 1298.8 | 1279.2 | 1259.8 | 1248.1 |
| 42.5° | 1306.5 | 1279.2 | 1252.1 | 1232.6 | 1220.9 | 1209.3 | 1189.8 | 1162.7 | 1151.0 | 1131.5 | 1119.9 |
| 45° | 1158.7 | 1135.4 | 1115.9 | 1088.8 | 1081.0 | 1073.3 | 1049.9 | 1030.5 | 1018.8 | 1007.1 | 999.4 |
| 47.5° | 1018.8 | 1003.2 | 979.9 | 964.3 | 952.6 | 944.9 | 929.4 | 913.8 | 902.1 | 894.3 | 886.6 |
| 50° | 898.3 | 878.7 | 863.2 | 847.6 | 839.9 | 828.2 | 812.7 | 804.9 | 797.1 | 789.3 | 789.3 |
| 52.5° | 785.5 | 766.0 | 750.5 | 738.8 | 731.0 | 723.3 | 711.6 | 707.7 | 699.9 | 699.9 | 696.0 |
| 55° | 680.5 | 668.8 | 653.2 | 637.7 | 633.8 | 630.0 | 622.1 | 614.4 | 610.5 | 606.6 | 610.5 |
| 57.5° | 591.0 | 579.4 | 563.8 | 552.1 | 548.3 | 544.4 | 540.5 | 532.7 | 528.9 | 528.9 | 528.9 |
| 60° | 509.3 | 497.8 | 486.1 | 474.4 | 474.4 | 466.7 | 462.7 | 458.8 | 455.0 | 451.0 | 451.0 |
| 62.5° | 435.5 | 423.9 | 412.2 | 404.4 | 400.5 | 396.6 | 388.8 | 385.0 | 381.1 | 381.1 | 377.1 |
| 65° | 369.4 | 353.9 | 350.0 | 338.3 | 334.5 | 330.5 | 326.6 | 318.9 | 314.9 | 311.1 | 307.2 |
| 67.5° | 303.2 | 295.5 | 283.8 | 276.1 | 272.1 | 268.3 | 264.4 | 256.6 | 252.7 | 248.9 | 241.0 |
| 70° | 245.0 | 237.2 | 229.4 | 221.6 | 217.8 | 213.8 | 206.1 | 198.3 | 194.4 | 186.7 | 175.0 |
| 72.5° | 190.5 | 182.7 | 175.0 | 167.2 | 163.3 | 159.5 | 151.6 | 143.9 | 136.1 | 128.4 | 120.5 |
| 75° | 143.9 | 136.1 | 124.4 | 116.7 | 112.8 | 112.8 | 101.1 | 93.3 | 85.6 | 73.9 | 66.0 |
| 77.5° | 101.1 | 89.4 | 85.6 | 77.7 | 73.9 | 66.0 | 58.3 | 50.5 | 42.8 | 38.9 | 31.1 |
| 80° | 66.0 | 58.3 | 50.5 | 46.6 | 42.8 | 38.9 | 35.0 | 27.2 | 19.4 | 15.5 | 11.7 |
| 82.5° | 38.9 | 35.0 | 31.1 | 27.2 | 23.4 | 19.4 | 15.5 | 15.5 | 11.7 | 7.8 | 3.9 |
| 85° | 19.4 | 15.5 | 11.7 | 11.7 | 7.8 | 7.8 | 7.8 | 3.9 | 3.9 | 3.9 | 3.9 |
| 87.5° | 7.8 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 |
| 2.5° | 2589.7 | 2585.8 | 2581.9 | 2578.0 | 2578.0 | 2570.3 | 2570.3 | 2566.3 | 2558.6 | 2554.7 | 2554.7 |
| 5° | 2566.3 | 2554.7 | 2546.9 | 2543.0 | 2539.2 | 2527.5 | 2523.5 | 2515.8 | 2508.0 | 2500.3 | 2496.4 |
| 7.5° | 2531.4 | 2511.9 | 2504.1 | 2500.3 | 2488.6 | 2476.9 | 2469.2 | 2457.5 | 2445.8 | 2434.1 | 2430.2 |
| 10° | 2488.6 | 2469.2 | 2449.6 | 2441.9 | 2430.2 | 2422.5 | 2407.0 | 2391.4 | 2379.7 | 2368.0 | 2356.4 |
| 12.5° | 2434.1 | 2410.8 | 2391.4 | 2383.6 | 2371.9 | 2356.4 | 2333.1 | 2325.3 | 2305.9 | 2298.0 | 2282.5 |
| 15° | 2371.9 | 2344.7 | 2325.3 | 2313.6 | 2302.0 | 2278.6 | 2263.1 | 2247.5 | 2228.1 | 2220.3 | 2204.7 |
| 17.5° | 2294.2 | 2263.1 | 2243.7 | 2232.0 | 2224.1 | 2204.7 | 2181.4 | 2161.9 | 2142.5 | 2134.7 | 2123.0 |
| 20° | 2200.9 | 2181.4 | 2154.2 | 2142.5 | 2134.7 | 2111.4 | 2088.1 | 2080.4 | 2064.7 | 2049.1 | 2037.6 |
| 22.5° | 2095.9 | 2076.4 | 2049.1 | 2037.6 | 2033.6 | 2014.2 | 1994.8 | 1983.1 | 1971.4 | 1959.7 | 1948.1 |
| 25° | 1986.9 | 1963.7 | 1940.3 | 1932.6 | 1924.8 | 1909.2 | 1893.7 | 1885.8 | 1874.3 | 1866.4 | 1858.7 |
| 27.5° | 1870.3 | 1847.0 | 1827.5 | 1815.9 | 1808.1 | 1796.4 | 1788.7 | 1780.9 | 1773.1 | 1765.3 | 1761.4 |
| 30° | 1745.9 | 1722.5 | 1707.0 | 1699.3 | 1691.4 | 1687.6 | 1675.9 | 1672.0 | 1668.2 | 1660.3 | 1664.2 |
| 32.5° | 1621.5 | 1602.0 | 1586.4 | 1574.8 | 1574.8 | 1567.0 | 1563.2 | 1563.2 | 1559.2 | 1559.2 | 1559.2 |
| 35° | 1485.3 | 1473.8 | 1462.1 | 1458.2 | 1454.2 | 1450.4 | 1446.5 | 1450.4 | 1446.5 | 1450.4 | 1454.2 |
| 37.5° | 1360.9 | 1349.3 | 1341.5 | 1337.6 | 1333.7 | 1337.6 | 1333.7 | 1333.7 | 1337.6 | 1345.4 | 1349.3 |
| 40° | 1232.6 | 1224.9 | 1217.0 | 1220.9 | 1217.0 | 1217.0 | 1217.0 | 1228.7 | 1232.6 | 1236.6 | 1240.4 |
| 42.5° | 1112.1 | 1104.4 | 1100.4 | 1100.4 | 1104.4 | 1100.4 | 1108.2 | 1112.1 | 1119.9 | 1131.5 | 1139.3 |
| 45° | 995.4 | 991.5 | 991.5 | 995.4 | 991.5 | 999.4 | 999.4 | 1007.1 | 1018.8 | 1026.5 | 1034.3 |
| 47.5° | 886.6 | 886.6 | 886.6 | 890.4 | 890.4 | 894.3 | 902.1 | 906.0 | 913.8 | 921.5 | 929.4 |
| 50° | 785.5 | 789.3 | 793.3 | 793.3 | 793.3 | 801.0 | 808.8 | 812.7 | 816.5 | 820.4 | 832.1 |
| 52.5° | 696.0 | 699.9 | 699.9 | 703.9 | 707.7 | 711.6 | 715.4 | 723.3 | 727.1 | 735.0 | 738.8 |
| 55° | 610.5 | 610.5 | 618.3 | 622.1 | 622.1 | 622.1 | 630.0 | 630.0 | 637.7 | 641.5 | 649.4 |
| 57.5° | 528.9 | 532.7 | 532.7 | 536.6 | 536.6 | 540.5 | 544.4 | 548.3 | 552.1 | 556.1 | 560.0 |
| 60° | 451.0 | 451.0 | 451.0 | 455.0 | 458.8 | 462.7 | 458.8 | 466.7 | 466.7 | 474.4 | 478.2 |
| 62.5° | 377.1 | 381.1 | 381.1 | 381.1 | 381.1 | 381.1 | 381.1 | 385.0 | 388.8 | 392.8 | 396.6 |
| 65° | 307.2 | 307.2 | 307.2 | 303.2 | 307.2 | 303.2 | 307.2 | 311.1 | 311.1 | 314.9 | 318.9 |
| 67.5° | 237.2 | 237.2 | 229.4 | 229.4 | 233.3 | 233.3 | 233.3 | 233.3 | 229.4 | 237.2 | 237.2 |
| 70° | 171.1 | 167.2 | 163.3 | 159.5 | 159.5 | 155.6 | 155.6 | 151.6 | 151.6 | 151.6 | 151.6 |
| 72.5° | 112.8 | 105.0 | 97.3 | 93.3 | 89.4 | 89.4 | 81.7 | 77.7 | 81.7 | 81.7 | 81.7 |
| 75° | 58.3 | 50.5 | 46.6 | 42.8 | 38.9 | 38.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| 77.5° | 23.4 | 19.4 | 15.5 | 15.5 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 80° | 7.8 | 7.8 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 85° | 3.9 | 0.0 | 0.0 | 3.9 | 0.0 | 3.9 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P584844

CATALOG NUMBER: HCC8S50D010BZ-HM82555840-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 | 2601.4 |
| 2.5° | 2550.8 | 2550.8 | 2546.9 | 2550.8 | 2543.0 | 2546.9 | 2543.0 | 2543.0 |
| 5° | 2492.4 | 2484.7 | 2484.7 | 2484.7 | 2480.9 | 2480.9 | 2476.9 | 2476.9 |
| 7.5° | 2422.5 | 2418.5 | 2414.7 | 2410.8 | 2407.0 | 2403.0 | 2403.0 | 2403.0 |
| 10° | 2352.5 | 2344.7 | 2344.7 | 2340.8 | 2333.1 | 2329.1 | 2329.1 | 2329.1 |
| 12.5° | 2270.8 | 2266.9 | 2263.1 | 2263.1 | 2247.5 | 2251.4 | 2247.5 | 2247.5 |
| 15° | 2193.0 | 2189.2 | 2189.2 | 2177.5 | 2169.8 | 2169.8 | 2169.8 | 2165.8 |
| 17.5° | 2111.4 | 2107.5 | 2103.6 | 2095.9 | 2088.1 | 2088.1 | 2084.2 | 2088.1 |
| 20° | 2025.9 | 2022.0 | 2014.2 | 2014.2 | 2010.3 | 2006.5 | 1998.6 | 2002.5 |
| 22.5° | 1940.3 | 1932.6 | 1928.6 | 1928.6 | 1924.8 | 1924.8 | 1917.0 | 1917.0 |
| 25° | 1850.9 | 1847.0 | 1843.2 | 1847.0 | 1839.2 | 1839.2 | 1831.5 | 1831.5 |
| 27.5° | 1757.6 | 1753.6 | 1753.6 | 1753.6 | 1749.8 | 1753.6 | 1749.8 | 1749.8 |
| 30° | 1664.2 | 1664.2 | 1660.3 | 1660.3 | 1664.2 | 1660.3 | 1664.2 | 1668.2 |
| 32.5° | 1563.2 | 1563.2 | 1567.0 | 1567.0 | 1570.9 | 1570.9 | 1570.9 | 1570.9 |
| 35° | 1458.2 | 1465.9 | 1465.9 | 1469.8 | 1473.8 | 1477.6 | 1477.6 | 1481.5 |
| 37.5° | 1360.9 | 1364.8 | 1368.7 | 1372.6 | 1380.4 | 1380.4 | 1380.4 | 1380.4 |
| 40° | 1256.0 | 1259.8 | 1267.7 | 1263.7 | 1279.2 | 1283.2 | 1279.2 | 1279.2 |
| 42.5° | 1147.0 | 1154.9 | 1158.7 | 1166.5 | 1170.4 | 1178.2 | 1182.1 | 1182.1 |
| 45° | 1046.0 | 1049.9 | 1057.6 | 1065.4 | 1069.3 | 1081.0 | 1081.0 | 1081.0 |
| 47.5° | 941.0 | 948.8 | 952.6 | 960.5 | 964.3 | 976.0 | 979.9 | 976.0 |
| 50° | 839.9 | 847.6 | 855.5 | 855.5 | 867.2 | 871.0 | 878.7 | 882.7 |
| 52.5° | 742.7 | 746.5 | 754.4 | 758.2 | 766.0 | 773.8 | 777.7 | 781.6 |
| 55° | 649.4 | 653.2 | 661.1 | 661.1 | 672.6 | 676.6 | 684.3 | 684.3 |
| 57.5° | 563.8 | 567.7 | 575.5 | 571.6 | 579.4 | 587.2 | 587.2 | 583.2 |
| 60° | 482.2 | 482.2 | 482.2 | 489.9 | 493.8 | 497.8 | 501.6 | 501.6 |
| 62.5° | 396.6 | 404.4 | 408.3 | 408.3 | 412.2 | 416.0 | 416.0 | 412.2 |
| 65° | 318.9 | 326.6 | 330.5 | 330.5 | 334.5 | 334.5 | 334.5 | 338.3 |
| 67.5° | 241.0 | 241.0 | 241.0 | 245.0 | 241.0 | 241.0 | 241.0 | 241.0 |
| 70° | 151.6 | 151.6 | 151.6 | 151.6 | 147.8 | 151.6 | 151.6 | 155.6 |
| 72.5° | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 |
| 75° | 35.0 | 35.0 | 35.0 | 38.9 | 35.0 | 35.0 | 35.0 | 35.0 |
| 77.5° | 15.5 | 11.7 | 15.5 | 15.5 | 11.7 | 11.7 | 11.7 | 11.7 |
| 80° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 85° | 0.0 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Classified
Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



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

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(END OF REPORT)