

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: P593769

Luminaire Tested: **HCC8S45D010MB-HM82555850-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593769
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: HCC8S45D010MB-HM82555850-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

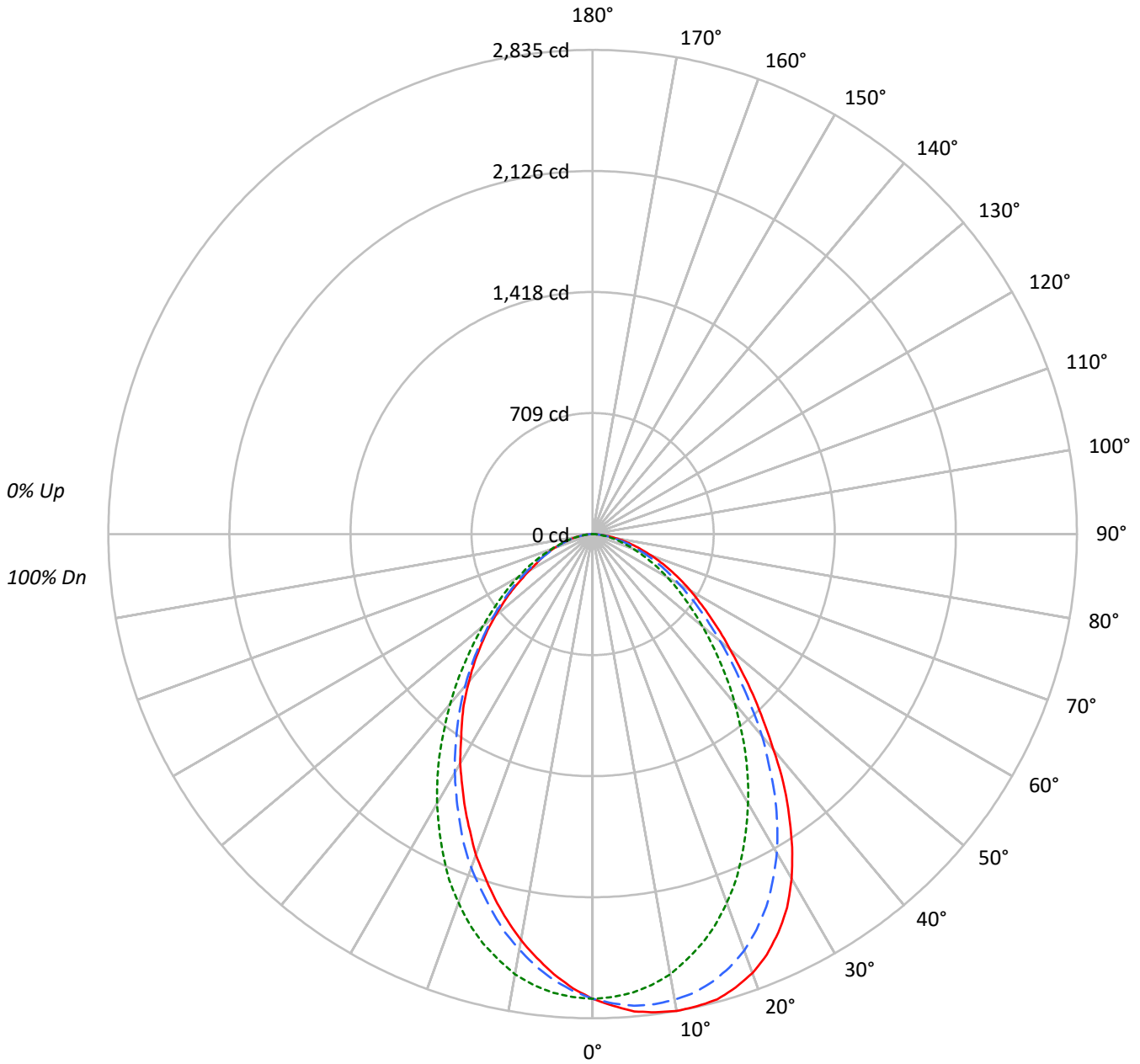
Lumens per Lamp: N/A
Luminaire Lumens: 5021.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P593769
CATALOG NUMBER: HCC8S45D010MB-HM82555850-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P593769

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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 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | 51 | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | 46 | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | | 41 | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | 38 | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | 34 | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 83896 | 83896 | 83896 |
| 5° | 86845 | 83418 | 80103 |
| 10° | 88773 | 81953 | 75597 |
| 15° | 90039 | 79197 | 70591 |
| 20° | 89763 | 75347 | 65535 |
| 25° | 87544 | 70461 | 60165 |
| 30° | 82939 | 64801 | 55208 |
| 35° | 75458 | 58646 | 50165 |
| 40° | 66274 | 52157 | 45326 |
| 45° | 57795 | 45881 | 40408 |
| 50° | 50295 | 40201 | 35596 |
| 55° | 44859 | 35327 | 30961 |
| 60° | 40753 | 30960 | 26414 |
| 65° | 36628 | 26931 | 23976 |
| 70° | 32620 | 22973 | 21638 |
| 75° | 28594 | 19361 | 18479 |
| 80° | 24240 | 15734 | 16391 |
| 85° | 18292 | 11746 | 13055 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 254.8 | 5.1 |
| 10°-20° | 702.2 | 14.0 |
| 20°-30° | 974.6 | 19.4 |
| 30°-40° | 1007.7 | 20.1 |
| 40°-50° | 843.7 | 16.8 |
| 50°-60° | 612.5 | 12.2 |
| 60°-70° | 386.5 | 7.7 |
| 70°-80° | 191.5 | 3.8 |
| 80°-90° | 47.6 | 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° | 1931.6 | 38.5 |
| 0°-40° | 2939.3 | 58.5 |
| 0°-60° | 4395.5 | 87.5 |
| 0°-90° | 5021.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5021.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2721 | 2721 | 2721 | 2721 | 2721 | |
| 5° | 2806 | 2772 | 2695 | 2621 | 2588 | 268 |
| 15° | 2820 | 2713 | 2481 | 2281 | 2211 | 794 |
| 25° | 2573 | 2407 | 2071 | 1846 | 1768 | 1179 |
| 35° | 2004 | 1857 | 1558 | 1381 | 1333 | 1248 |
| 45° | 1325 | 1229 | 1052 | 949 | 927 | 1025 |
| 55° | 834 | 760 | 657 | 602 | 576 | 753 |
| 65° | 502 | 439 | 369 | 325 | 329 | 501 |
| 75° | 240 | 199 | 162 | 155 | 155 | 257 |
| 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° | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 |
| 2.5° | 2765.0 | 2765.0 | 2768.6 | 2765.0 | 2765.0 | 2765.0 | 2761.2 | 2761.2 | 2757.6 | 2757.6 | 2750.2 |
| 5° | 2805.6 | 2798.2 | 2805.6 | 2798.2 | 2798.2 | 2798.2 | 2794.6 | 2787.2 | 2783.4 | 2776.0 | 2772.4 |
| 7.5° | 2824.1 | 2820.4 | 2820.4 | 2816.7 | 2816.7 | 2813.0 | 2809.3 | 2805.6 | 2790.8 | 2787.2 | 2776.0 |
| 10° | 2835.1 | 2831.4 | 2831.4 | 2827.8 | 2820.4 | 2820.4 | 2813.0 | 2809.3 | 2790.8 | 2783.4 | 2768.6 |
| 12.5° | 2831.4 | 2831.4 | 2831.4 | 2827.8 | 2816.7 | 2813.0 | 2805.6 | 2794.6 | 2779.8 | 2765.0 | 2750.2 |
| 15° | 2820.4 | 2820.4 | 2813.0 | 2809.3 | 2798.2 | 2790.8 | 2787.2 | 2768.6 | 2754.0 | 2735.4 | 2713.3 |
| 17.5° | 2783.4 | 2783.4 | 2779.8 | 2772.4 | 2761.2 | 2754.0 | 2746.6 | 2728.0 | 2713.3 | 2683.8 | 2661.7 |
| 20° | 2735.4 | 2731.8 | 2728.0 | 2717.0 | 2705.9 | 2702.2 | 2691.2 | 2665.3 | 2646.9 | 2624.7 | 2595.1 |
| 22.5° | 2665.3 | 2661.7 | 2657.9 | 2650.5 | 2632.1 | 2624.7 | 2617.3 | 2598.9 | 2565.7 | 2543.5 | 2506.6 |
| 25° | 2573.0 | 2573.0 | 2565.7 | 2554.6 | 2536.1 | 2528.8 | 2517.6 | 2499.2 | 2469.6 | 2436.4 | 2406.9 |
| 27.5° | 2466.0 | 2462.2 | 2451.2 | 2443.8 | 2429.0 | 2418.0 | 2399.5 | 2377.3 | 2347.9 | 2322.0 | 2285.1 |
| 30° | 2329.3 | 2329.3 | 2322.0 | 2310.9 | 2292.5 | 2285.1 | 2270.3 | 2244.5 | 2215.0 | 2181.8 | 2155.9 |
| 32.5° | 2174.4 | 2174.4 | 2163.2 | 2155.9 | 2144.8 | 2126.3 | 2122.7 | 2093.1 | 2067.3 | 2041.5 | 2011.9 |
| 35° | 2004.5 | 2008.2 | 2000.8 | 1986.1 | 1967.6 | 1967.6 | 1960.2 | 1934.4 | 1904.8 | 1879.0 | 1856.9 |
| 37.5° | 1834.7 | 1823.7 | 1819.9 | 1812.5 | 1801.5 | 1786.7 | 1779.3 | 1768.3 | 1742.4 | 1724.0 | 1690.8 |
| 40° | 1646.4 | 1650.2 | 1642.8 | 1635.4 | 1631.6 | 1620.6 | 1616.9 | 1598.4 | 1580.0 | 1557.9 | 1543.1 |
| 42.5° | 1476.6 | 1476.6 | 1476.6 | 1469.3 | 1461.9 | 1450.8 | 1447.1 | 1436.0 | 1413.8 | 1399.2 | 1377.0 |
| 45° | 1325.3 | 1314.2 | 1314.2 | 1310.5 | 1306.8 | 1299.4 | 1288.3 | 1281.0 | 1266.3 | 1255.1 | 1229.3 |
| 47.5° | 1177.6 | 1181.3 | 1177.6 | 1173.9 | 1162.8 | 1159.2 | 1155.5 | 1140.7 | 1126.0 | 1114.8 | 1096.4 |
| 50° | 1048.4 | 1055.8 | 1048.4 | 1048.4 | 1041.0 | 1037.3 | 1029.9 | 1018.9 | 1007.8 | 989.3 | 970.9 |
| 52.5° | 941.3 | 941.3 | 937.7 | 933.9 | 922.9 | 915.5 | 911.8 | 908.1 | 889.7 | 874.9 | 860.2 |
| 55° | 834.4 | 838.0 | 838.0 | 827.0 | 823.2 | 815.8 | 812.2 | 801.0 | 793.7 | 771.5 | 760.5 |
| 57.5° | 742.0 | 738.3 | 742.0 | 734.6 | 727.3 | 719.9 | 716.1 | 708.7 | 697.7 | 682.9 | 668.1 |
| 60° | 660.8 | 653.4 | 653.4 | 649.7 | 642.3 | 638.7 | 631.3 | 620.2 | 609.1 | 594.4 | 583.2 |
| 62.5° | 579.6 | 575.9 | 572.2 | 568.6 | 561.2 | 557.4 | 553.8 | 542.6 | 531.6 | 520.5 | 509.4 |
| 65° | 502.0 | 502.0 | 498.4 | 491.0 | 487.3 | 483.6 | 479.9 | 472.5 | 457.7 | 450.3 | 439.3 |
| 67.5° | 431.9 | 428.3 | 428.3 | 420.9 | 413.5 | 409.7 | 409.7 | 402.3 | 391.3 | 380.3 | 372.9 |
| 70° | 361.8 | 365.5 | 361.8 | 358.1 | 350.7 | 350.7 | 343.3 | 339.6 | 324.8 | 321.2 | 310.1 |
| 72.5° | 299.0 | 299.0 | 295.4 | 295.4 | 288.0 | 284.2 | 284.2 | 276.8 | 269.4 | 262.0 | 254.8 |
| 75° | 240.0 | 240.0 | 240.0 | 236.2 | 232.6 | 225.2 | 225.2 | 221.5 | 214.1 | 206.7 | 199.3 |
| 77.5° | 188.3 | 184.6 | 184.6 | 180.9 | 177.2 | 173.5 | 173.5 | 169.9 | 162.5 | 158.7 | 151.3 |
| 80° | 136.5 | 132.9 | 132.9 | 132.9 | 125.5 | 129.1 | 125.5 | 121.9 | 118.1 | 114.5 | 110.7 |
| 82.5° | 88.6 | 92.3 | 92.3 | 88.6 | 84.9 | 84.9 | 84.9 | 81.2 | 81.2 | 77.5 | 73.8 |
| 85° | 51.7 | 51.7 | 51.7 | 51.7 | 48.0 | 48.0 | 48.0 | 44.3 | 44.3 | 44.3 | 40.6 |
| 87.5° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| 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° | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 |
| 2.5° | 2750.2 | 2742.8 | 2739.2 | 2735.4 | 2735.4 | 2731.8 | 2728.0 | 2720.7 | 2720.7 | 2713.3 | 2709.6 |
| 5° | 2765.0 | 2754.0 | 2746.6 | 2739.2 | 2735.4 | 2728.0 | 2720.7 | 2709.6 | 2705.9 | 2694.9 | 2683.8 |
| 7.5° | 2768.6 | 2750.2 | 2742.8 | 2728.0 | 2720.7 | 2713.3 | 2698.5 | 2687.5 | 2672.7 | 2661.7 | 2646.9 |
| 10° | 2754.0 | 2739.2 | 2720.7 | 2702.2 | 2698.5 | 2687.5 | 2665.3 | 2650.5 | 2632.1 | 2617.3 | 2595.1 |
| 12.5° | 2731.8 | 2709.6 | 2691.2 | 2669.0 | 2657.9 | 2646.9 | 2624.7 | 2602.5 | 2576.7 | 2550.9 | 2528.8 |
| 15° | 2694.9 | 2669.0 | 2643.1 | 2617.3 | 2602.5 | 2591.5 | 2565.7 | 2539.8 | 2514.0 | 2480.8 | 2458.6 |
| 17.5° | 2639.5 | 2609.9 | 2584.1 | 2550.9 | 2536.1 | 2525.0 | 2491.8 | 2462.2 | 2429.0 | 2395.9 | 2373.7 |
| 20° | 2569.3 | 2532.4 | 2502.9 | 2466.0 | 2454.9 | 2436.4 | 2403.2 | 2370.0 | 2333.1 | 2296.1 | 2270.3 |
| 22.5° | 2477.0 | 2440.1 | 2406.9 | 2370.0 | 2351.5 | 2333.1 | 2299.9 | 2259.2 | 2222.4 | 2192.8 | 2167.0 |
| 25° | 2370.0 | 2336.7 | 2296.1 | 2263.0 | 2240.8 | 2218.6 | 2181.8 | 2148.5 | 2115.3 | 2070.9 | 2045.1 |
| 27.5° | 2251.8 | 2211.2 | 2181.8 | 2137.4 | 2115.3 | 2100.5 | 2059.9 | 2015.6 | 1986.1 | 1945.4 | 1916.0 |
| 30° | 2118.9 | 2082.1 | 2048.9 | 2004.5 | 1982.4 | 1967.6 | 1930.6 | 1890.1 | 1860.6 | 1819.9 | 1790.5 |
| 32.5° | 1978.7 | 1938.0 | 1897.4 | 1867.9 | 1842.1 | 1827.3 | 1786.7 | 1760.9 | 1724.0 | 1690.8 | 1657.6 |
| 35° | 1827.3 | 1786.7 | 1757.2 | 1716.6 | 1701.8 | 1687.0 | 1653.8 | 1620.6 | 1587.4 | 1557.9 | 1532.1 |
| 37.5° | 1665.0 | 1635.4 | 1602.2 | 1572.6 | 1561.5 | 1546.7 | 1506.1 | 1476.6 | 1450.8 | 1421.2 | 1399.2 |
| 40° | 1506.1 | 1480.3 | 1458.2 | 1428.6 | 1410.2 | 1399.2 | 1369.6 | 1343.8 | 1314.2 | 1295.7 | 1273.6 |
| 42.5° | 1362.2 | 1332.6 | 1310.5 | 1288.3 | 1269.9 | 1258.9 | 1232.9 | 1214.5 | 1192.4 | 1173.9 | 1148.1 |
| 45° | 1210.9 | 1196.1 | 1170.2 | 1151.8 | 1140.7 | 1126.0 | 1107.4 | 1085.4 | 1066.8 | 1052.1 | 1033.6 |
| 47.5° | 1078.0 | 1063.2 | 1044.7 | 1022.6 | 1015.2 | 1004.1 | 985.7 | 970.9 | 956.1 | 941.3 | 922.9 |
| 50° | 956.1 | 937.7 | 922.9 | 908.1 | 900.7 | 889.7 | 871.2 | 863.8 | 852.8 | 838.0 | 827.0 |
| 52.5° | 845.4 | 830.6 | 815.8 | 797.4 | 793.7 | 786.3 | 775.2 | 760.5 | 749.4 | 742.0 | 734.6 |
| 55° | 745.7 | 730.9 | 719.9 | 705.1 | 701.5 | 694.1 | 679.3 | 671.9 | 664.5 | 657.1 | 649.7 |
| 57.5° | 657.1 | 642.3 | 627.6 | 620.2 | 612.8 | 605.4 | 601.7 | 590.6 | 583.2 | 579.6 | 572.2 |
| 60° | 575.9 | 561.2 | 550.0 | 539.0 | 535.2 | 531.6 | 524.2 | 516.8 | 509.4 | 502.0 | 498.4 |
| 62.5° | 498.4 | 483.6 | 476.2 | 468.8 | 461.5 | 461.5 | 454.1 | 446.7 | 439.3 | 435.7 | 428.3 |
| 65° | 428.3 | 420.9 | 409.7 | 398.7 | 394.9 | 394.9 | 383.9 | 380.3 | 376.5 | 369.1 | 361.8 |
| 67.5° | 361.8 | 354.4 | 343.3 | 339.6 | 335.9 | 332.2 | 328.6 | 321.2 | 313.8 | 310.1 | 302.8 |
| 70° | 302.8 | 295.4 | 288.0 | 284.2 | 280.6 | 276.8 | 269.4 | 265.8 | 258.4 | 254.8 | 251.0 |
| 72.5° | 243.6 | 240.0 | 232.6 | 228.9 | 225.2 | 221.5 | 217.8 | 214.1 | 206.7 | 203.0 | 199.3 |
| 75° | 195.7 | 192.0 | 184.6 | 180.9 | 177.2 | 177.2 | 173.5 | 166.1 | 162.5 | 162.5 | 158.7 |
| 77.5° | 147.7 | 143.9 | 140.3 | 136.5 | 132.9 | 132.9 | 129.1 | 125.5 | 121.9 | 121.9 | 118.1 |
| 80° | 107.1 | 103.3 | 99.7 | 99.7 | 99.7 | 96.0 | 92.3 | 92.3 | 88.6 | 88.6 | 84.9 |
| 82.5° | 70.1 | 70.1 | 66.4 | 66.4 | 66.4 | 62.8 | 62.8 | 59.1 | 59.1 | 59.1 | 59.1 |
| 85° | 40.6 | 40.6 | 40.6 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 33.2 | 36.9 |
| 87.5° | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 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° | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 |
| 2.5° | 2705.9 | 2702.2 | 2694.9 | 2694.9 | 2687.5 | 2687.5 | 2683.8 | 2680.1 | 2676.4 | 2672.7 | 2669.0 |
| 5° | 2680.1 | 2665.3 | 2657.9 | 2654.3 | 2646.9 | 2643.1 | 2632.1 | 2624.7 | 2621.1 | 2613.7 | 2606.3 |
| 7.5° | 2632.1 | 2617.3 | 2602.5 | 2598.9 | 2595.1 | 2580.4 | 2569.3 | 2558.3 | 2550.9 | 2543.5 | 2536.1 |
| 10° | 2576.7 | 2561.9 | 2543.5 | 2536.1 | 2528.8 | 2510.2 | 2495.6 | 2484.4 | 2469.6 | 2454.9 | 2451.2 |
| 12.5° | 2510.2 | 2488.2 | 2466.0 | 2458.6 | 2447.5 | 2429.0 | 2414.3 | 2395.9 | 2384.7 | 2366.3 | 2362.7 |
| 15° | 2432.8 | 2406.9 | 2388.5 | 2370.0 | 2362.7 | 2344.1 | 2318.3 | 2303.5 | 2281.4 | 2274.0 | 2255.6 |
| 17.5° | 2340.5 | 2314.6 | 2288.8 | 2281.4 | 2270.3 | 2244.5 | 2218.6 | 2200.2 | 2178.0 | 2167.0 | 2155.9 |
| 20° | 2244.5 | 2211.2 | 2185.4 | 2178.0 | 2163.2 | 2141.1 | 2115.3 | 2096.9 | 2078.3 | 2056.2 | 2045.1 |
| 22.5° | 2133.7 | 2096.9 | 2074.7 | 2056.2 | 2052.5 | 2026.7 | 1997.1 | 1982.4 | 1967.6 | 1949.2 | 1934.4 |
| 25° | 2011.9 | 1978.7 | 1952.8 | 1938.0 | 1930.6 | 1908.6 | 1886.4 | 1867.9 | 1845.8 | 1834.7 | 1816.3 |
| 27.5° | 1886.4 | 1864.2 | 1831.1 | 1816.3 | 1805.1 | 1786.7 | 1760.9 | 1749.8 | 1727.7 | 1712.9 | 1701.8 |
| 30° | 1764.5 | 1731.3 | 1712.9 | 1694.4 | 1683.4 | 1665.0 | 1642.8 | 1631.6 | 1613.2 | 1598.4 | 1587.4 |
| 32.5° | 1631.6 | 1609.5 | 1583.7 | 1576.3 | 1561.5 | 1543.1 | 1528.3 | 1509.9 | 1495.1 | 1480.3 | 1476.6 |
| 35° | 1509.9 | 1480.3 | 1454.5 | 1447.1 | 1436.0 | 1417.6 | 1410.2 | 1399.2 | 1380.6 | 1377.0 | 1362.2 |
| 37.5° | 1377.0 | 1362.2 | 1332.6 | 1321.6 | 1317.9 | 1303.1 | 1288.3 | 1281.0 | 1269.9 | 1258.9 | 1255.1 |
| 40° | 1251.5 | 1232.9 | 1218.3 | 1207.1 | 1199.7 | 1188.7 | 1173.9 | 1170.2 | 1162.8 | 1148.1 | 1144.4 |
| 42.5° | 1133.4 | 1114.8 | 1100.0 | 1096.4 | 1085.4 | 1074.2 | 1066.8 | 1055.8 | 1052.1 | 1048.4 | 1041.0 |
| 45° | 1018.9 | 1007.8 | 993.1 | 989.3 | 985.7 | 970.9 | 963.5 | 956.1 | 948.7 | 945.1 | 937.7 |
| 47.5° | 915.5 | 904.4 | 893.4 | 889.7 | 882.3 | 878.6 | 867.6 | 863.8 | 852.8 | 849.0 | 845.4 |
| 50° | 815.8 | 808.4 | 801.0 | 797.4 | 790.0 | 786.3 | 778.9 | 771.5 | 764.2 | 760.5 | 756.8 |
| 52.5° | 727.3 | 719.9 | 712.5 | 708.7 | 705.1 | 697.7 | 690.3 | 682.9 | 679.3 | 675.5 | 671.9 |
| 55° | 642.3 | 634.9 | 631.3 | 627.6 | 623.9 | 620.2 | 609.1 | 605.4 | 601.7 | 598.0 | 590.6 |
| 57.5° | 564.8 | 557.4 | 550.0 | 550.0 | 546.4 | 542.6 | 535.2 | 527.8 | 527.8 | 520.5 | 513.2 |
| 60° | 494.7 | 487.3 | 479.9 | 476.2 | 472.5 | 465.1 | 461.5 | 457.7 | 454.1 | 450.3 | 443.0 |
| 62.5° | 420.9 | 417.1 | 409.7 | 409.7 | 402.3 | 398.7 | 394.9 | 391.3 | 387.6 | 380.3 | 376.5 |
| 65° | 358.1 | 354.4 | 347.0 | 343.3 | 343.3 | 339.6 | 332.2 | 328.6 | 324.8 | 324.8 | 321.2 |
| 67.5° | 299.0 | 295.4 | 288.0 | 284.2 | 284.2 | 280.6 | 276.8 | 276.8 | 273.2 | 269.4 | 273.2 |
| 70° | 247.4 | 240.0 | 240.0 | 236.2 | 236.2 | 232.6 | 228.9 | 228.9 | 228.9 | 232.6 | 232.6 |
| 72.5° | 195.7 | 192.0 | 188.3 | 188.3 | 188.3 | 188.3 | 184.6 | 184.6 | 188.3 | 192.0 | 192.0 |
| 75° | 155.1 | 151.3 | 151.3 | 151.3 | 147.7 | 147.7 | 151.3 | 151.3 | 155.1 | 155.1 | 155.1 |
| 77.5° | 114.5 | 114.5 | 114.5 | 114.5 | 114.5 | 114.5 | 118.1 | 118.1 | 121.9 | 121.9 | 121.9 |
| 80° | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 92.3 |
| 82.5° | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 62.8 | 62.8 | 62.8 | 62.8 |
| 85° | 33.2 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 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: P593769

CATALOG NUMBER: HCC8S45D010MB-HM82555850-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 | 2720.7 |
| 2.5° | 2665.3 | 2665.3 | 2665.3 | 2669.0 | 2661.7 | 2661.7 | 2661.7 | 2661.7 |
| 5° | 2602.5 | 2598.9 | 2595.1 | 2598.9 | 2591.5 | 2591.5 | 2587.8 | 2587.8 |
| 7.5° | 2525.0 | 2521.4 | 2517.6 | 2517.6 | 2510.2 | 2510.2 | 2506.6 | 2502.9 |
| 10° | 2440.1 | 2432.8 | 2436.4 | 2429.0 | 2425.4 | 2421.7 | 2418.0 | 2414.3 |
| 12.5° | 2347.9 | 2340.5 | 2336.7 | 2329.3 | 2322.0 | 2318.3 | 2322.0 | 2314.6 |
| 15° | 2248.2 | 2237.1 | 2233.4 | 2226.0 | 2218.6 | 2215.0 | 2215.0 | 2211.2 |
| 17.5° | 2137.4 | 2130.1 | 2126.3 | 2118.9 | 2115.3 | 2107.9 | 2104.2 | 2100.5 |
| 20° | 2034.1 | 2015.6 | 2019.3 | 2011.9 | 2008.2 | 1993.4 | 1993.4 | 1997.1 |
| 22.5° | 1919.6 | 1908.6 | 1901.2 | 1893.8 | 1890.1 | 1882.7 | 1882.7 | 1879.0 |
| 25° | 1805.1 | 1794.1 | 1790.5 | 1783.1 | 1779.3 | 1771.9 | 1768.3 | 1768.3 |
| 27.5° | 1694.4 | 1679.6 | 1679.6 | 1672.2 | 1665.0 | 1661.2 | 1657.6 | 1653.8 |
| 30° | 1576.3 | 1565.3 | 1561.5 | 1561.5 | 1557.9 | 1557.9 | 1546.7 | 1550.5 |
| 32.5° | 1465.5 | 1458.2 | 1454.5 | 1447.1 | 1447.1 | 1443.4 | 1443.4 | 1432.4 |
| 35° | 1354.8 | 1343.8 | 1347.4 | 1340.0 | 1336.4 | 1332.6 | 1336.4 | 1332.6 |
| 37.5° | 1247.7 | 1240.3 | 1240.3 | 1232.9 | 1232.9 | 1229.3 | 1225.6 | 1232.9 |
| 40° | 1140.7 | 1137.0 | 1133.4 | 1129.6 | 1133.4 | 1129.6 | 1122.2 | 1126.0 |
| 42.5° | 1033.6 | 1033.6 | 1029.9 | 1029.9 | 1026.3 | 1026.3 | 1026.3 | 1026.3 |
| 45° | 937.7 | 933.9 | 933.9 | 930.3 | 930.3 | 930.3 | 930.3 | 926.6 |
| 47.5° | 841.6 | 838.0 | 838.0 | 838.0 | 834.4 | 834.4 | 830.6 | 834.4 |
| 50° | 749.4 | 749.4 | 745.7 | 745.7 | 749.4 | 745.7 | 742.0 | 742.0 |
| 52.5° | 664.5 | 664.5 | 660.8 | 660.8 | 657.1 | 653.4 | 657.1 | 657.1 |
| 55° | 587.0 | 583.2 | 579.6 | 579.6 | 575.9 | 572.2 | 572.2 | 575.9 |
| 57.5° | 513.2 | 509.4 | 505.8 | 505.8 | 498.4 | 494.7 | 494.7 | 494.7 |
| 60° | 443.0 | 435.7 | 435.7 | 431.9 | 431.9 | 428.3 | 428.3 | 428.3 |
| 62.5° | 376.5 | 372.9 | 372.9 | 372.9 | 372.9 | 369.1 | 369.1 | 369.1 |
| 65° | 321.2 | 321.2 | 321.2 | 324.8 | 324.8 | 328.6 | 328.6 | 328.6 |
| 67.5° | 276.8 | 280.6 | 280.6 | 280.6 | 284.2 | 284.2 | 284.2 | 280.6 |
| 70° | 236.2 | 236.2 | 236.2 | 240.0 | 240.0 | 240.0 | 240.0 | 240.0 |
| 72.5° | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 |
| 75° | 155.1 | 158.7 | 158.7 | 158.7 | 155.1 | 158.7 | 158.7 | 155.1 |
| 77.5° | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 |
| 80° | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 |
| 82.5° | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 |
| 85° | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 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)