

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: P584710

Luminaire Tested: **HCC8W45D010SL-HM82555840-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584710
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: HCC8W45D010SL-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

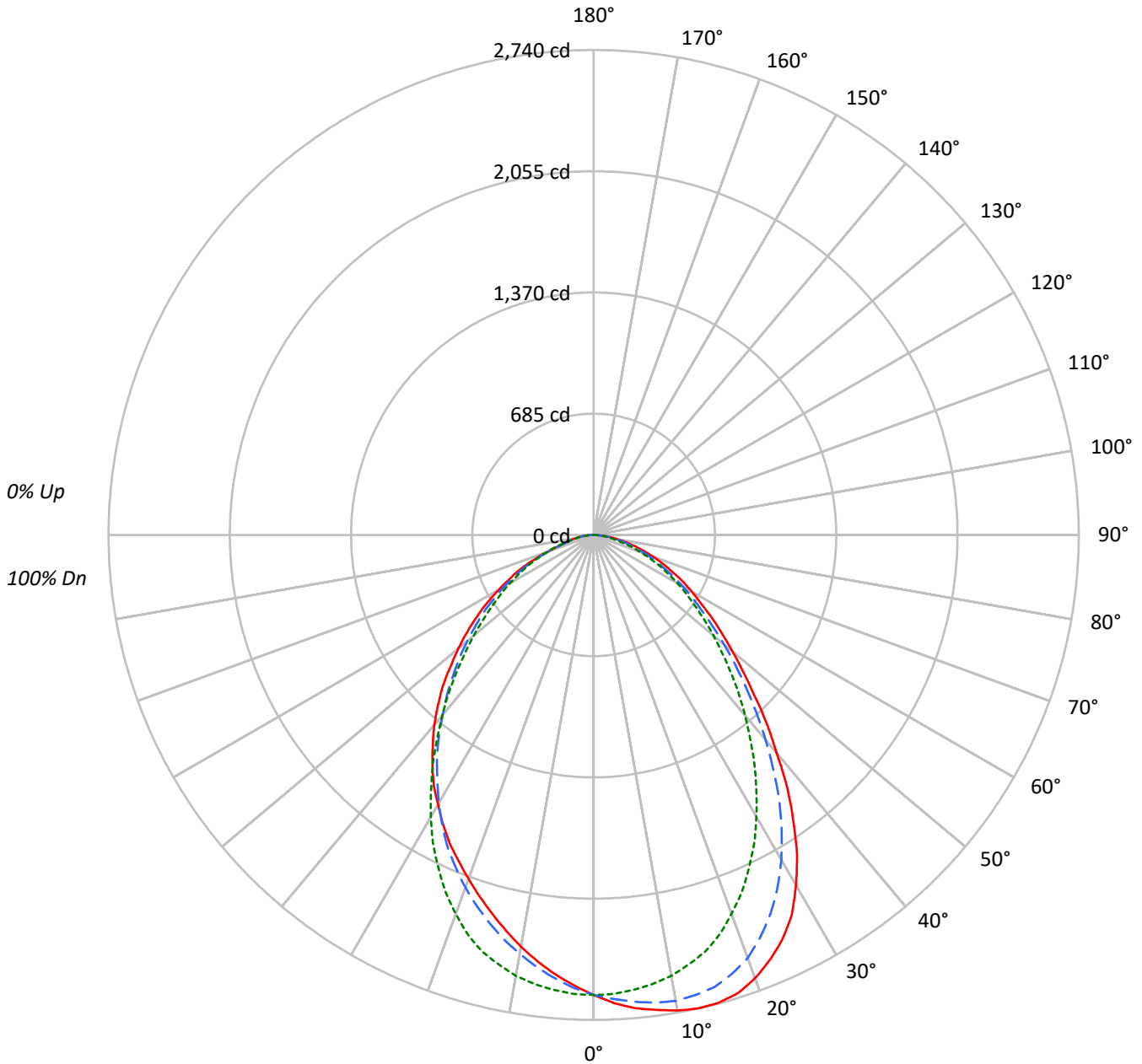
Lumens per Lamp: N/A
Luminaire Lumens: 5227.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584710
CATALOG NUMBER: HCC8W45D010SL-HM82555840-81WWWB

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 | 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° | 80156 | 80156 | 80156 |
| 5° | 83090 | 79886 | 77147 |
| 10° | 85435 | 79194 | 73990 |
| 15° | 87341 | 77796 | 70721 |
| 20° | 87479 | 74757 | 67849 |
| 25° | 85802 | 70600 | 65449 |
| 30° | 81379 | 65470 | 62579 |
| 35° | 73944 | 59628 | 59768 |
| 40° | 64652 | 53506 | 56331 |
| 45° | 56033 | 47660 | 52488 |
| 50° | 49062 | 42331 | 47824 |
| 55° | 43670 | 37515 | 43273 |
| 60° | 39390 | 33704 | 38027 |
| 65° | 35563 | 29631 | 33141 |
| 70° | 31961 | 24965 | 24632 |
| 75° | 28165 | 19790 | 18479 |
| 80° | 23600 | 16391 | 17705 |
| 85° | 18292 | 14365 | 15674 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 245.2 | 4.7 |
| 10°-20° | 690.7 | 13.2 |
| 20°-30° | 987.1 | 18.9 |
| 30°-40° | 1048.8 | 20.1 |
| 40°-50° | 903.0 | 17.3 |
| 50°-60° | 675.1 | 12.9 |
| 60°-70° | 430.6 | 8.2 |
| 70°-80° | 196.0 | 3.7 |
| 80°-90° | 51.4 | 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° | 1923.0 | 36.8 |
| 0°-40° | 2971.8 | 56.8 |
| 0°-60° | 4549.9 | 87.0 |
| 0°-90° | 5227.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5227.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2599 | 2599 | 2599 | 2599 | 2599 | |
| 5° | 2684 | 2647 | 2581 | 2514 | 2492 | 257 |
| 15° | 2736 | 2644 | 2437 | 2271 | 2215 | 771 |
| 25° | 2522 | 2363 | 2075 | 1950 | 1924 | 1154 |
| 35° | 1964 | 1828 | 1584 | 1543 | 1588 | 1223 |
| 45° | 1285 | 1215 | 1093 | 1122 | 1204 | 999 |
| 55° | 812 | 746 | 698 | 757 | 805 | 730 |
| 65° | 487 | 432 | 406 | 425 | 454 | 486 |
| 75° | 236 | 203 | 166 | 151 | 155 | 251 |
| 85° | 52 | 44 | 41 | 44 | 44 | 62 |
| 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° | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 |
| 2.5° | 2647.3 | 2640.0 | 2643.6 | 2640.0 | 2643.6 | 2643.6 | 2636.2 | 2636.2 | 2636.2 | 2636.2 | 2625.2 |
| 5° | 2684.3 | 2680.5 | 2680.5 | 2676.9 | 2673.1 | 2676.9 | 2673.1 | 2669.5 | 2662.1 | 2658.4 | 2647.3 |
| 7.5° | 2706.5 | 2706.5 | 2706.5 | 2706.5 | 2702.7 | 2699.1 | 2695.3 | 2687.9 | 2680.5 | 2673.1 | 2665.8 |
| 10° | 2728.5 | 2732.3 | 2728.5 | 2724.9 | 2721.1 | 2713.7 | 2710.1 | 2702.7 | 2691.7 | 2680.5 | 2673.1 |
| 12.5° | 2739.7 | 2739.7 | 2735.9 | 2735.9 | 2728.5 | 2724.9 | 2713.7 | 2702.7 | 2691.7 | 2680.5 | 2662.1 |
| 15° | 2735.9 | 2735.9 | 2732.3 | 2728.5 | 2717.5 | 2713.7 | 2706.5 | 2695.3 | 2676.9 | 2662.1 | 2643.6 |
| 17.5° | 2713.7 | 2710.1 | 2702.7 | 2702.7 | 2687.9 | 2684.3 | 2676.9 | 2662.1 | 2643.6 | 2621.5 | 2599.4 |
| 20° | 2665.8 | 2665.8 | 2662.1 | 2658.4 | 2643.6 | 2632.6 | 2625.2 | 2606.8 | 2592.0 | 2566.1 | 2544.0 |
| 22.5° | 2599.4 | 2606.8 | 2599.4 | 2592.0 | 2573.4 | 2569.8 | 2558.7 | 2536.6 | 2514.4 | 2484.9 | 2459.1 |
| 25° | 2521.8 | 2518.1 | 2514.4 | 2507.1 | 2492.3 | 2484.9 | 2470.1 | 2447.9 | 2425.8 | 2392.6 | 2363.0 |
| 27.5° | 2422.1 | 2407.3 | 2407.3 | 2392.6 | 2381.5 | 2370.4 | 2363.0 | 2340.8 | 2311.4 | 2285.5 | 2248.5 |
| 30° | 2285.5 | 2289.2 | 2270.7 | 2267.1 | 2248.5 | 2241.1 | 2226.5 | 2204.3 | 2178.4 | 2148.9 | 2119.4 |
| 32.5° | 2137.8 | 2126.8 | 2126.8 | 2112.0 | 2097.2 | 2086.1 | 2082.4 | 2056.6 | 2034.5 | 2004.9 | 1975.3 |
| 35° | 1964.3 | 1964.3 | 1953.2 | 1949.5 | 1934.7 | 1927.4 | 1916.2 | 1901.6 | 1875.6 | 1849.8 | 1827.7 |
| 37.5° | 1794.5 | 1787.1 | 1783.3 | 1775.9 | 1764.9 | 1753.9 | 1753.9 | 1727.9 | 1724.3 | 1694.8 | 1665.2 |
| 40° | 1606.1 | 1613.5 | 1606.1 | 1595.0 | 1591.4 | 1584.0 | 1580.3 | 1565.5 | 1554.5 | 1528.5 | 1510.1 |
| 42.5° | 1447.4 | 1440.0 | 1440.0 | 1436.2 | 1421.6 | 1421.6 | 1414.2 | 1406.8 | 1388.2 | 1380.9 | 1358.7 |
| 45° | 1284.9 | 1292.3 | 1281.2 | 1284.9 | 1270.1 | 1270.1 | 1270.1 | 1255.3 | 1240.6 | 1229.5 | 1214.8 |
| 47.5° | 1144.6 | 1148.2 | 1148.2 | 1137.2 | 1133.5 | 1133.5 | 1126.1 | 1118.7 | 1107.7 | 1092.9 | 1081.9 |
| 50° | 1022.7 | 1026.5 | 1019.1 | 1015.3 | 1008.0 | 1004.3 | 1004.3 | 989.5 | 982.2 | 967.4 | 960.0 |
| 52.5° | 912.0 | 912.0 | 908.3 | 908.3 | 897.2 | 897.2 | 889.8 | 878.7 | 871.4 | 864.0 | 845.5 |
| 55° | 812.3 | 812.3 | 808.5 | 804.9 | 804.9 | 793.9 | 790.1 | 779.1 | 771.7 | 756.9 | 745.8 |
| 57.5° | 716.4 | 720.0 | 716.4 | 712.6 | 709.0 | 705.2 | 697.8 | 686.8 | 679.4 | 668.3 | 660.9 |
| 60° | 638.7 | 638.7 | 635.1 | 631.4 | 624.0 | 620.3 | 616.6 | 609.3 | 598.1 | 590.7 | 579.7 |
| 62.5° | 564.9 | 561.2 | 557.5 | 553.9 | 546.5 | 546.5 | 539.1 | 531.7 | 520.6 | 513.2 | 505.8 |
| 65° | 487.4 | 487.4 | 483.6 | 483.6 | 480.0 | 472.6 | 469.0 | 465.2 | 450.4 | 446.8 | 432.0 |
| 67.5° | 417.2 | 420.9 | 413.5 | 413.5 | 406.1 | 406.1 | 402.5 | 391.4 | 387.7 | 380.3 | 372.9 |
| 70° | 354.5 | 354.5 | 354.5 | 350.7 | 343.3 | 339.7 | 335.9 | 328.6 | 324.9 | 317.5 | 310.1 |
| 72.5° | 291.7 | 291.7 | 288.0 | 288.0 | 284.3 | 280.6 | 276.9 | 269.6 | 269.6 | 262.2 | 254.8 |
| 75° | 236.4 | 236.4 | 232.6 | 229.0 | 225.2 | 225.2 | 221.6 | 217.8 | 210.4 | 206.8 | 203.0 |
| 77.5° | 180.9 | 180.9 | 180.9 | 177.2 | 173.5 | 173.5 | 173.5 | 166.1 | 158.8 | 158.8 | 155.1 |
| 80° | 132.9 | 132.9 | 129.3 | 129.3 | 125.5 | 125.5 | 125.5 | 121.9 | 118.1 | 114.5 | 110.7 |
| 82.5° | 88.6 | 88.6 | 88.6 | 88.6 | 84.9 | 84.9 | 84.9 | 81.2 | 77.5 | 77.5 | 77.5 |
| 85° | 51.7 | 51.7 | 51.7 | 51.7 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 44.3 | 44.3 |
| 87.5° | 22.2 | 18.4 | 22.2 | 18.4 | 22.2 | 18.4 | 22.2 | 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° | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 |
| 2.5° | 2628.9 | 2625.2 | 2621.5 | 2617.8 | 2617.8 | 2614.1 | 2606.8 | 2603.0 | 2599.4 | 2595.6 | 2595.6 |
| 5° | 2643.6 | 2640.0 | 2632.6 | 2625.2 | 2621.5 | 2614.1 | 2606.8 | 2599.4 | 2592.0 | 2580.8 | 2577.2 |
| 7.5° | 2654.7 | 2643.6 | 2636.2 | 2621.5 | 2617.8 | 2610.4 | 2599.4 | 2588.2 | 2573.4 | 2558.7 | 2547.6 |
| 10° | 2654.7 | 2640.0 | 2628.9 | 2610.4 | 2603.0 | 2595.6 | 2580.8 | 2562.4 | 2544.0 | 2529.2 | 2510.7 |
| 12.5° | 2647.3 | 2628.9 | 2610.4 | 2592.0 | 2580.8 | 2569.8 | 2547.6 | 2529.2 | 2507.1 | 2484.9 | 2470.1 |
| 15° | 2621.5 | 2599.4 | 2577.2 | 2555.0 | 2544.0 | 2529.2 | 2507.1 | 2481.1 | 2459.1 | 2436.9 | 2411.0 |
| 17.5° | 2573.4 | 2551.3 | 2525.5 | 2499.7 | 2484.9 | 2473.7 | 2440.5 | 2422.1 | 2388.9 | 2366.8 | 2344.6 |
| 20° | 2510.7 | 2484.9 | 2451.7 | 2425.8 | 2407.3 | 2396.2 | 2370.4 | 2337.2 | 2311.4 | 2278.1 | 2255.9 |
| 22.5° | 2429.5 | 2396.2 | 2363.0 | 2337.2 | 2318.7 | 2304.0 | 2270.7 | 2237.5 | 2215.3 | 2185.8 | 2160.0 |
| 25° | 2333.4 | 2300.3 | 2267.1 | 2230.1 | 2211.7 | 2196.9 | 2167.4 | 2137.8 | 2108.2 | 2075.0 | 2052.9 |
| 27.5° | 2219.1 | 2182.1 | 2152.6 | 2119.4 | 2100.8 | 2078.7 | 2045.5 | 2015.9 | 1986.5 | 1964.3 | 1934.7 |
| 30° | 2093.5 | 2052.9 | 2023.3 | 1990.1 | 1971.7 | 1953.2 | 1920.0 | 1890.4 | 1864.6 | 1838.7 | 1824.0 |
| 32.5° | 1942.1 | 1912.6 | 1883.0 | 1849.8 | 1835.0 | 1824.0 | 1790.7 | 1761.1 | 1731.7 | 1709.5 | 1698.4 |
| 35° | 1798.1 | 1764.9 | 1739.1 | 1709.5 | 1691.0 | 1680.0 | 1650.4 | 1624.6 | 1609.8 | 1584.0 | 1569.2 |
| 37.5° | 1646.8 | 1620.9 | 1591.4 | 1561.8 | 1550.7 | 1539.7 | 1517.5 | 1491.7 | 1469.5 | 1451.0 | 1443.6 |
| 40° | 1488.0 | 1465.8 | 1440.0 | 1421.6 | 1410.4 | 1399.4 | 1380.9 | 1362.4 | 1347.7 | 1329.2 | 1321.9 |
| 42.5° | 1336.6 | 1321.9 | 1299.7 | 1277.5 | 1266.5 | 1262.7 | 1240.6 | 1225.8 | 1218.4 | 1211.0 | 1203.6 |
| 45° | 1200.0 | 1177.8 | 1163.0 | 1148.2 | 1137.2 | 1129.8 | 1118.7 | 1107.7 | 1100.3 | 1092.9 | 1085.5 |
| 47.5° | 1067.1 | 1048.5 | 1033.9 | 1022.7 | 1011.7 | 1008.0 | 1000.6 | 989.5 | 982.2 | 982.2 | 982.2 |
| 50° | 945.2 | 930.4 | 915.6 | 908.3 | 904.6 | 897.2 | 889.8 | 886.1 | 882.4 | 882.4 | 882.4 |
| 52.5° | 838.1 | 823.3 | 812.3 | 804.9 | 804.9 | 797.5 | 790.1 | 786.5 | 786.5 | 786.5 | 786.5 |
| 55° | 738.4 | 727.4 | 720.0 | 712.6 | 705.2 | 701.6 | 701.6 | 701.6 | 697.8 | 697.8 | 701.6 |
| 57.5° | 649.8 | 642.5 | 631.4 | 624.0 | 620.3 | 620.3 | 616.6 | 612.9 | 616.6 | 620.3 | 624.0 |
| 60° | 568.6 | 561.2 | 557.5 | 546.5 | 546.5 | 546.5 | 542.7 | 542.7 | 542.7 | 546.5 | 550.1 |
| 62.5° | 494.8 | 491.0 | 483.6 | 480.0 | 476.4 | 476.4 | 472.6 | 472.6 | 472.6 | 472.6 | 476.4 |
| 65° | 428.3 | 420.9 | 413.5 | 413.5 | 413.5 | 409.8 | 409.8 | 402.5 | 406.1 | 406.1 | 402.5 |
| 67.5° | 365.5 | 358.1 | 354.5 | 350.7 | 347.1 | 347.1 | 343.3 | 339.7 | 335.9 | 335.9 | 335.9 |
| 70° | 306.5 | 299.1 | 299.1 | 291.7 | 291.7 | 288.0 | 284.3 | 284.3 | 280.6 | 276.9 | 273.2 |
| 72.5° | 247.4 | 243.6 | 240.0 | 236.4 | 236.4 | 236.4 | 232.6 | 229.0 | 225.2 | 221.6 | 214.2 |
| 75° | 195.7 | 195.7 | 188.3 | 184.6 | 184.6 | 180.9 | 177.2 | 173.5 | 169.9 | 166.1 | 162.5 |
| 77.5° | 151.4 | 147.7 | 140.3 | 136.7 | 136.7 | 136.7 | 132.9 | 129.3 | 125.5 | 121.9 | 118.1 |
| 80° | 110.7 | 107.1 | 103.3 | 99.7 | 99.7 | 99.7 | 96.0 | 96.0 | 92.3 | 92.3 | 92.3 |
| 82.5° | 73.9 | 73.9 | 70.1 | 70.1 | 70.1 | 70.1 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| 85° | 44.3 | 44.3 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 87.5° | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 |
| 2.5° | 2588.2 | 2588.2 | 2580.8 | 2577.2 | 2573.4 | 2577.2 | 2569.8 | 2566.1 | 2562.4 | 2562.4 | 2558.7 |
| 5° | 2566.1 | 2562.4 | 2547.6 | 2544.0 | 2540.2 | 2536.6 | 2529.2 | 2521.8 | 2514.4 | 2510.7 | 2507.1 |
| 7.5° | 2536.6 | 2525.5 | 2510.7 | 2507.1 | 2503.3 | 2492.3 | 2481.1 | 2473.7 | 2462.7 | 2459.1 | 2451.7 |
| 10° | 2495.9 | 2481.1 | 2470.1 | 2459.1 | 2451.7 | 2440.5 | 2429.5 | 2418.4 | 2403.6 | 2400.0 | 2388.9 |
| 12.5° | 2447.9 | 2429.5 | 2407.3 | 2403.6 | 2392.6 | 2377.8 | 2363.0 | 2352.0 | 2340.8 | 2333.4 | 2322.4 |
| 15° | 2388.9 | 2370.4 | 2348.2 | 2337.2 | 2326.1 | 2315.0 | 2296.6 | 2281.8 | 2270.7 | 2259.7 | 2248.5 |
| 17.5° | 2318.7 | 2296.6 | 2278.1 | 2267.1 | 2259.7 | 2241.1 | 2226.5 | 2207.9 | 2196.9 | 2185.8 | 2174.7 |
| 20° | 2233.7 | 2215.3 | 2189.5 | 2178.4 | 2174.7 | 2160.0 | 2141.5 | 2134.2 | 2119.4 | 2108.2 | 2100.8 |
| 22.5° | 2137.8 | 2119.4 | 2097.2 | 2089.8 | 2075.0 | 2067.6 | 2049.2 | 2041.8 | 2034.5 | 2023.3 | 2019.7 |
| 25° | 2030.7 | 2012.3 | 1993.7 | 1990.1 | 1979.1 | 1971.7 | 1960.6 | 1949.5 | 1949.5 | 1938.4 | 1938.4 |
| 27.5° | 1920.0 | 1901.6 | 1886.8 | 1879.4 | 1875.6 | 1868.2 | 1857.2 | 1853.5 | 1849.8 | 1846.1 | 1846.1 |
| 30° | 1801.8 | 1779.7 | 1772.3 | 1768.5 | 1764.9 | 1757.5 | 1753.9 | 1746.5 | 1750.1 | 1753.9 | 1750.1 |
| 32.5° | 1676.2 | 1668.9 | 1654.2 | 1646.8 | 1650.4 | 1646.8 | 1639.4 | 1646.8 | 1643.0 | 1650.4 | 1654.2 |
| 35° | 1554.5 | 1547.1 | 1539.7 | 1539.7 | 1532.3 | 1532.3 | 1532.3 | 1535.9 | 1543.3 | 1547.1 | 1554.5 |
| 37.5° | 1436.2 | 1425.2 | 1421.6 | 1417.8 | 1421.6 | 1421.6 | 1421.6 | 1428.9 | 1436.2 | 1443.6 | 1454.8 |
| 40° | 1310.7 | 1303.3 | 1303.3 | 1303.3 | 1303.3 | 1314.5 | 1310.7 | 1318.1 | 1325.5 | 1336.6 | 1347.7 |
| 42.5° | 1192.6 | 1192.6 | 1196.2 | 1196.2 | 1196.2 | 1196.2 | 1203.6 | 1214.8 | 1225.8 | 1236.9 | 1248.0 |
| 45° | 1081.9 | 1081.9 | 1081.9 | 1089.2 | 1089.2 | 1092.9 | 1107.7 | 1115.1 | 1122.4 | 1133.5 | 1144.6 |
| 47.5° | 978.4 | 978.4 | 982.2 | 985.8 | 989.5 | 996.9 | 1004.3 | 1015.3 | 1026.5 | 1033.9 | 1044.9 |
| 50° | 882.4 | 886.1 | 893.5 | 900.9 | 900.9 | 904.6 | 915.6 | 923.0 | 930.4 | 941.6 | 945.2 |
| 52.5° | 790.1 | 797.5 | 804.9 | 808.5 | 812.3 | 819.7 | 823.3 | 834.5 | 838.1 | 849.3 | 852.9 |
| 55° | 705.2 | 709.0 | 720.0 | 723.6 | 723.6 | 731.0 | 738.4 | 745.8 | 756.9 | 756.9 | 764.3 |
| 57.5° | 627.7 | 631.4 | 638.7 | 642.5 | 638.7 | 649.8 | 653.5 | 660.9 | 664.6 | 672.0 | 675.6 |
| 60° | 550.1 | 557.5 | 561.2 | 561.2 | 564.9 | 568.6 | 575.9 | 575.9 | 583.3 | 590.7 | 590.7 |
| 62.5° | 476.4 | 480.0 | 483.6 | 487.4 | 491.0 | 487.4 | 498.4 | 498.4 | 505.8 | 509.6 | 516.9 |
| 65° | 406.1 | 409.8 | 409.8 | 413.5 | 413.5 | 417.2 | 417.2 | 420.9 | 424.6 | 432.0 | 435.7 |
| 67.5° | 335.9 | 335.9 | 335.9 | 339.7 | 335.9 | 339.7 | 339.7 | 343.3 | 343.3 | 350.7 | 354.5 |
| 70° | 273.2 | 269.6 | 265.8 | 265.8 | 265.8 | 265.8 | 262.2 | 265.8 | 265.8 | 269.6 | 269.6 |
| 72.5° | 210.4 | 206.8 | 203.0 | 199.4 | 199.4 | 195.7 | 192.0 | 195.7 | 195.7 | 199.4 | 199.4 |
| 75° | 158.8 | 151.4 | 151.4 | 151.4 | 147.7 | 147.7 | 147.7 | 151.4 | 151.4 | 151.4 | 155.1 |
| 77.5° | 118.1 | 118.1 | 114.5 | 114.5 | 114.5 | 118.1 | 118.1 | 121.9 | 121.9 | 121.9 | 121.9 |
| 80° | 88.6 | 92.3 | 92.3 | 92.3 | 92.3 | 96.0 | 96.0 | 96.0 | 96.0 | 99.7 | 99.7 |
| 82.5° | 66.5 | 66.5 | 66.5 | 66.5 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 |
| 85° | 40.6 | 44.3 | 44.3 | 40.6 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| 87.5° | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 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 |

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P584710

CATALOG NUMBER: HCC8W45D010SL-HM82555840-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 | 2599.4 |
| 2.5° | 2555.0 | 2555.0 | 2555.0 | 2555.0 | 2551.3 | 2551.3 | 2551.3 | 2547.6 |
| 5° | 2499.7 | 2499.7 | 2499.7 | 2492.3 | 2495.9 | 2495.9 | 2488.5 | 2492.3 |
| 7.5° | 2444.3 | 2440.5 | 2436.9 | 2436.9 | 2433.2 | 2429.5 | 2425.8 | 2429.5 |
| 10° | 2381.5 | 2370.4 | 2370.4 | 2366.8 | 2366.8 | 2359.4 | 2359.4 | 2363.0 |
| 12.5° | 2311.4 | 2304.0 | 2304.0 | 2300.3 | 2296.6 | 2292.9 | 2289.2 | 2289.2 |
| 15° | 2241.1 | 2233.7 | 2230.1 | 2226.5 | 2222.7 | 2215.3 | 2219.1 | 2215.3 |
| 17.5° | 2171.0 | 2160.0 | 2160.0 | 2156.2 | 2152.6 | 2145.2 | 2145.2 | 2141.5 |
| 20° | 2089.8 | 2086.1 | 2078.7 | 2082.4 | 2078.7 | 2071.4 | 2067.6 | 2067.6 |
| 22.5° | 2008.5 | 2008.5 | 2004.9 | 2004.9 | 2001.1 | 1997.5 | 1993.7 | 1993.7 |
| 25° | 1931.0 | 1927.4 | 1931.0 | 1931.0 | 1920.0 | 1920.0 | 1920.0 | 1923.6 |
| 27.5° | 1842.4 | 1846.1 | 1842.4 | 1842.4 | 1842.4 | 1842.4 | 1846.1 | 1842.4 |
| 30° | 1753.9 | 1753.9 | 1753.9 | 1757.5 | 1764.9 | 1761.1 | 1761.1 | 1757.5 |
| 32.5° | 1657.8 | 1661.6 | 1661.6 | 1665.2 | 1668.9 | 1676.2 | 1676.2 | 1680.0 |
| 35° | 1561.8 | 1569.2 | 1572.9 | 1569.2 | 1580.3 | 1580.3 | 1587.7 | 1587.7 |
| 37.5° | 1462.1 | 1465.8 | 1473.2 | 1476.9 | 1484.3 | 1488.0 | 1491.7 | 1491.7 |
| 40° | 1355.0 | 1369.8 | 1373.5 | 1377.2 | 1388.2 | 1388.2 | 1392.0 | 1399.4 |
| 42.5° | 1255.3 | 1270.1 | 1273.9 | 1277.5 | 1284.9 | 1295.9 | 1292.3 | 1299.7 |
| 45° | 1159.4 | 1170.4 | 1174.2 | 1177.8 | 1189.0 | 1192.6 | 1192.6 | 1203.6 |
| 47.5° | 1055.9 | 1063.3 | 1067.1 | 1074.5 | 1081.9 | 1089.2 | 1096.6 | 1092.9 |
| 50° | 952.6 | 963.6 | 971.0 | 974.8 | 985.8 | 989.5 | 993.2 | 996.9 |
| 52.5° | 860.3 | 867.7 | 871.4 | 875.1 | 886.1 | 889.8 | 893.5 | 900.9 |
| 55° | 771.7 | 775.4 | 782.7 | 779.1 | 790.1 | 793.9 | 797.5 | 804.9 |
| 57.5° | 683.0 | 686.8 | 690.4 | 690.4 | 697.8 | 705.2 | 709.0 | 712.6 |
| 60° | 598.1 | 605.5 | 609.3 | 609.3 | 609.3 | 616.6 | 616.6 | 616.6 |
| 62.5° | 520.6 | 520.6 | 524.3 | 524.3 | 531.7 | 531.7 | 531.7 | 531.7 |
| 65° | 439.4 | 443.0 | 446.8 | 446.8 | 454.2 | 450.4 | 457.8 | 454.2 |
| 67.5° | 354.5 | 354.5 | 361.9 | 361.9 | 358.1 | 361.9 | 361.9 | 361.9 |
| 70° | 269.6 | 269.6 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 |
| 72.5° | 199.4 | 199.4 | 199.4 | 203.0 | 199.4 | 199.4 | 203.0 | 199.4 |
| 75° | 155.1 | 155.1 | 155.1 | 155.1 | 155.1 | 155.1 | 155.1 | 155.1 |
| 77.5° | 121.9 | 121.9 | 125.5 | 125.5 | 125.5 | 125.5 | 125.5 | 125.5 |
| 80° | 99.7 | 99.7 | 99.7 | 99.7 | 103.3 | 99.7 | 99.7 | 99.7 |
| 82.5° | 73.9 | 70.1 | 73.9 | 70.1 | 73.9 | 73.9 | 73.9 | 73.9 |
| 85° | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| 87.5° | 18.4 | 18.4 | 18.4 | 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 |

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)