

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: P593783

Luminaire Tested: **HCC8S45D010SL-HM82555950-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010SL-HM82555950-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

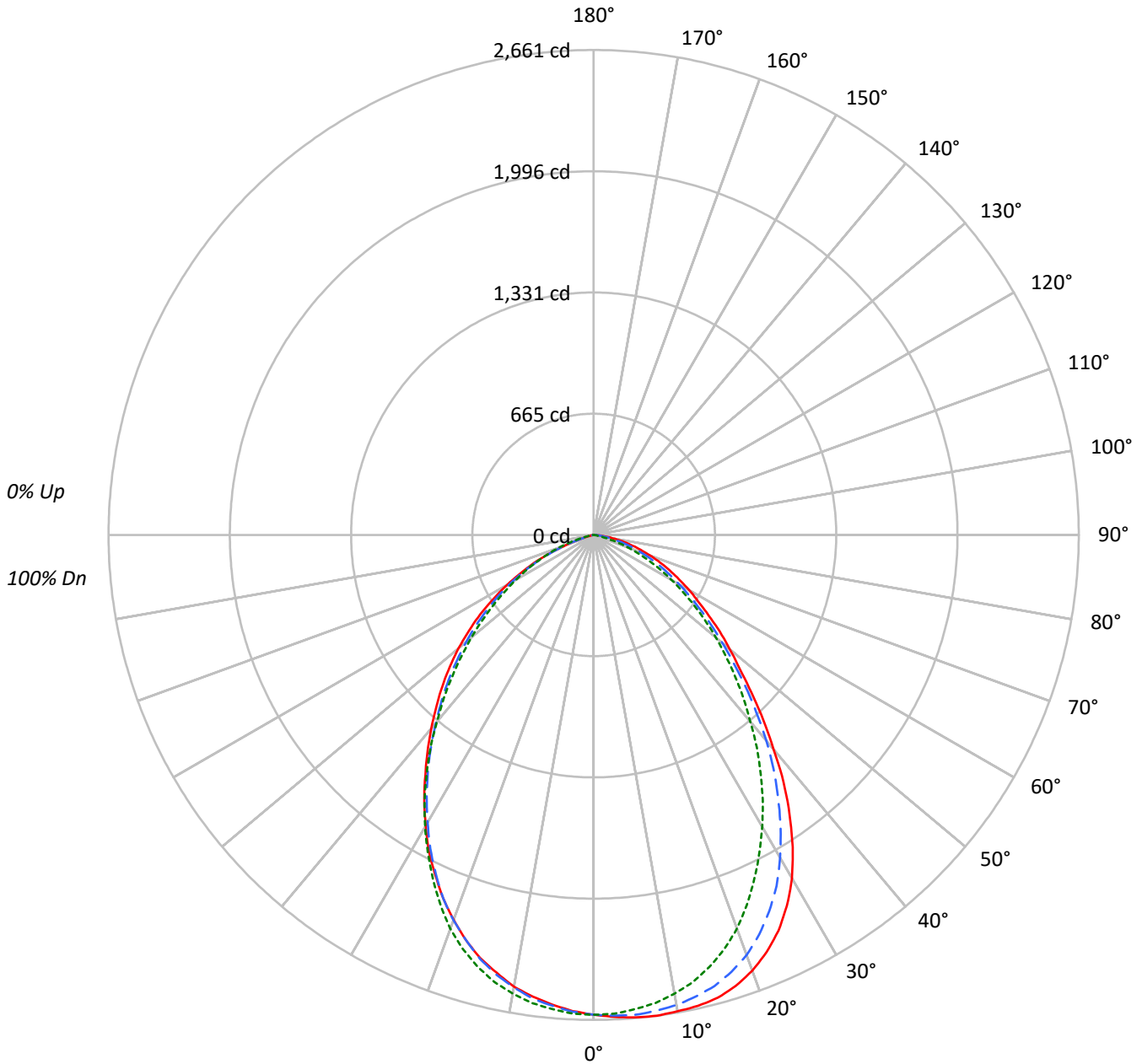
Lumens per Lamp: N/A
Luminaire Lumens: 5003.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593783
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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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 81186 | 81186 | 81186 |
| 5° | 82257 | 80843 | 80081 |
| 10° | 83099 | 80018 | 78806 |
| 15° | 83938 | 78329 | 76755 |
| 20° | 83512 | 75436 | 73710 |
| 25° | 81566 | 70920 | 69967 |
| 30° | 77473 | 65833 | 65588 |
| 35° | 70526 | 60076 | 60603 |
| 40° | 61830 | 53767 | 55752 |
| 45° | 53343 | 47830 | 51201 |
| 50° | 46711 | 41991 | 46375 |
| 55° | 41386 | 36095 | 40821 |
| 60° | 37287 | 30349 | 33821 |
| 65° | 33600 | 24370 | 25910 |
| 70° | 29473 | 17743 | 14263 |
| 75° | 25127 | 9210 | 3777 |
| 80° | 19356 | 2504 | 622 |
| 85° | 12454 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 248.4 | 5.0 |
| 10°-20° | 698.3 | 14.0 |
| 20°-30° | 991.2 | 19.8 |
| 30°-40° | 1043.3 | 20.9 |
| 40°-50° | 887.6 | 17.7 |
| 50°-60° | 641.4 | 12.8 |
| 60°-70° | 364.8 | 7.3 |
| 70°-80° | 115.0 | 2.3 |
| 80°-90° | 14.0 | 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° | 1937.9 | 38.7 |
| 0°-40° | 2981.2 | 59.6 |
| 0°-60° | 4510.1 | 90.1 |
| 0°-90° | 5003.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5003.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2633 | 2633 | 2633 | 2633 | 2633 | |
| 5° | 2657 | 2643 | 2612 | 2594 | 2587 | 254 |
| 15° | 2629 | 2562 | 2454 | 2408 | 2404 | 740 |
| 25° | 2397 | 2278 | 2084 | 2049 | 2056 | 1098 |
| 35° | 1874 | 1764 | 1596 | 1585 | 1610 | 1166 |
| 45° | 1223 | 1178 | 1097 | 1125 | 1174 | 951 |
| 55° | 770 | 714 | 671 | 710 | 759 | 694 |
| 65° | 460 | 397 | 334 | 330 | 355 | 457 |
| 75° | 211 | 162 | 77 | 35 | 32 | 227 |
| 85° | 35 | 21 | 0 | 0 | 0 | 45 |
| 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° | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 |
| 2.5° | 2646.9 | 2650.4 | 2643.4 | 2643.4 | 2650.4 | 2643.4 | 2646.9 | 2646.9 | 2643.4 | 2643.4 | 2639.8 |
| 5° | 2657.4 | 2653.9 | 2653.9 | 2653.9 | 2657.4 | 2650.4 | 2646.9 | 2650.4 | 2643.4 | 2643.4 | 2643.4 |
| 7.5° | 2661.0 | 2661.0 | 2657.4 | 2653.9 | 2653.9 | 2653.9 | 2650.4 | 2646.9 | 2643.4 | 2636.3 | 2632.8 |
| 10° | 2653.9 | 2653.9 | 2657.4 | 2650.4 | 2650.4 | 2643.4 | 2643.4 | 2636.3 | 2636.3 | 2629.3 | 2618.7 |
| 12.5° | 2646.9 | 2643.4 | 2643.4 | 2636.3 | 2636.3 | 2629.3 | 2629.3 | 2618.7 | 2615.2 | 2604.6 | 2594.1 |
| 15° | 2629.3 | 2625.8 | 2618.7 | 2615.2 | 2611.7 | 2608.2 | 2601.1 | 2597.6 | 2587.1 | 2573.1 | 2562.5 |
| 17.5° | 2594.1 | 2590.6 | 2587.1 | 2580.1 | 2573.1 | 2569.6 | 2566.1 | 2555.5 | 2541.4 | 2530.9 | 2513.3 |
| 20° | 2544.9 | 2541.4 | 2541.4 | 2530.9 | 2527.3 | 2516.8 | 2513.3 | 2499.2 | 2488.6 | 2467.6 | 2453.6 |
| 22.5° | 2478.2 | 2481.6 | 2474.7 | 2467.6 | 2460.6 | 2450.0 | 2443.0 | 2428.9 | 2411.3 | 2390.2 | 2372.7 |
| 25° | 2397.3 | 2400.8 | 2393.7 | 2386.7 | 2376.1 | 2369.2 | 2362.2 | 2341.1 | 2323.5 | 2298.8 | 2277.7 |
| 27.5° | 2295.3 | 2295.3 | 2295.3 | 2288.3 | 2270.7 | 2267.3 | 2260.3 | 2239.1 | 2214.5 | 2193.4 | 2172.3 |
| 30° | 2175.8 | 2172.3 | 2172.3 | 2161.8 | 2154.8 | 2140.7 | 2130.2 | 2112.6 | 2095.0 | 2070.3 | 2045.8 |
| 32.5° | 2031.8 | 2035.3 | 2024.7 | 2017.7 | 2007.1 | 2007.1 | 1993.0 | 1979.0 | 1957.9 | 1933.3 | 1908.7 |
| 35° | 1873.5 | 1877.0 | 1870.0 | 1866.5 | 1848.9 | 1845.5 | 1842.0 | 1824.4 | 1810.3 | 1792.7 | 1764.5 |
| 37.5° | 1711.9 | 1708.4 | 1704.8 | 1704.8 | 1694.3 | 1687.2 | 1680.2 | 1669.6 | 1648.5 | 1634.6 | 1620.5 |
| 40° | 1536.0 | 1536.0 | 1536.0 | 1532.5 | 1529.1 | 1522.1 | 1518.6 | 1511.5 | 1497.5 | 1483.4 | 1472.8 |
| 42.5° | 1377.9 | 1377.9 | 1374.4 | 1370.9 | 1363.8 | 1367.4 | 1360.3 | 1353.3 | 1339.2 | 1328.7 | 1321.6 |
| 45° | 1223.2 | 1223.2 | 1223.2 | 1226.7 | 1219.7 | 1209.2 | 1209.2 | 1202.2 | 1195.2 | 1188.1 | 1177.6 |
| 47.5° | 1086.2 | 1096.8 | 1089.7 | 1086.2 | 1089.7 | 1075.6 | 1075.6 | 1068.6 | 1061.6 | 1054.5 | 1040.5 |
| 50° | 973.7 | 973.7 | 973.7 | 966.7 | 963.2 | 963.2 | 952.6 | 945.6 | 942.0 | 935.0 | 920.9 |
| 52.5° | 871.8 | 864.7 | 864.7 | 861.2 | 857.7 | 850.7 | 850.7 | 843.6 | 829.5 | 822.5 | 812.0 |
| 55° | 769.8 | 769.8 | 766.3 | 762.8 | 759.3 | 755.8 | 752.2 | 741.7 | 734.6 | 724.1 | 713.5 |
| 57.5° | 678.5 | 685.5 | 682.0 | 674.9 | 667.9 | 667.9 | 660.9 | 653.8 | 643.3 | 632.7 | 622.2 |
| 60° | 604.6 | 601.0 | 601.0 | 597.5 | 590.5 | 587.0 | 583.5 | 573.0 | 562.5 | 551.9 | 541.3 |
| 62.5° | 527.3 | 527.3 | 527.3 | 520.2 | 513.2 | 509.7 | 506.1 | 499.1 | 485.0 | 474.6 | 467.6 |
| 65° | 460.5 | 457.0 | 453.5 | 450.0 | 446.4 | 439.4 | 435.9 | 428.8 | 418.3 | 407.7 | 397.2 |
| 67.5° | 393.7 | 390.1 | 390.1 | 386.6 | 376.1 | 372.5 | 372.5 | 362.1 | 351.5 | 341.0 | 330.4 |
| 70° | 326.9 | 326.9 | 326.9 | 319.9 | 316.4 | 312.8 | 309.3 | 302.3 | 291.7 | 281.2 | 270.6 |
| 72.5° | 270.6 | 267.1 | 267.1 | 263.7 | 253.1 | 249.6 | 246.1 | 239.1 | 228.5 | 221.5 | 214.4 |
| 75° | 210.9 | 210.9 | 207.4 | 203.9 | 200.3 | 196.8 | 193.3 | 186.3 | 175.7 | 165.2 | 161.6 |
| 77.5° | 161.6 | 158.2 | 158.2 | 154.7 | 147.7 | 144.2 | 144.2 | 137.1 | 126.6 | 119.5 | 112.5 |
| 80° | 109.0 | 112.5 | 109.0 | 105.5 | 101.9 | 98.4 | 94.9 | 91.4 | 84.3 | 77.3 | 70.3 |
| 82.5° | 66.7 | 70.3 | 66.7 | 66.7 | 63.2 | 59.7 | 59.7 | 52.8 | 49.3 | 45.7 | 42.2 |
| 85° | 35.2 | 35.2 | 35.2 | 35.2 | 31.7 | 31.7 | 31.7 | 28.2 | 24.6 | 21.1 | 21.1 |
| 87.5° | 10.6 | 14.1 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 7.0 | 7.0 | 7.0 |
| 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° | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 |
| 2.5° | 2643.4 | 2639.8 | 2636.3 | 2636.3 | 2636.3 | 2636.3 | 2636.3 | 2632.8 | 2629.3 | 2629.3 | 2629.3 |
| 5° | 2636.3 | 2636.3 | 2636.3 | 2632.8 | 2629.3 | 2629.3 | 2622.2 | 2618.7 | 2615.2 | 2611.7 | 2608.2 |
| 7.5° | 2629.3 | 2622.2 | 2618.7 | 2615.2 | 2611.7 | 2611.7 | 2604.6 | 2597.6 | 2597.6 | 2590.6 | 2583.6 |
| 10° | 2608.2 | 2604.6 | 2597.6 | 2590.6 | 2587.1 | 2583.6 | 2576.6 | 2566.1 | 2562.5 | 2555.5 | 2548.5 |
| 12.5° | 2583.6 | 2576.6 | 2569.6 | 2555.5 | 2552.0 | 2548.5 | 2534.4 | 2523.8 | 2516.8 | 2513.3 | 2495.7 |
| 15° | 2552.0 | 2537.9 | 2527.3 | 2509.8 | 2506.2 | 2499.2 | 2488.6 | 2478.2 | 2464.1 | 2453.6 | 2446.5 |
| 17.5° | 2495.7 | 2481.6 | 2464.1 | 2446.5 | 2439.5 | 2439.5 | 2421.9 | 2407.8 | 2390.2 | 2383.2 | 2369.2 |
| 20° | 2428.9 | 2411.3 | 2397.3 | 2376.1 | 2365.7 | 2355.1 | 2344.6 | 2323.5 | 2309.4 | 2298.8 | 2281.3 |
| 22.5° | 2351.6 | 2327.0 | 2309.4 | 2288.3 | 2270.7 | 2260.3 | 2242.7 | 2225.1 | 2207.5 | 2196.9 | 2182.8 |
| 25° | 2253.2 | 2232.1 | 2203.9 | 2182.8 | 2172.3 | 2158.3 | 2137.2 | 2119.6 | 2102.0 | 2084.4 | 2077.4 |
| 27.5° | 2144.2 | 2116.1 | 2091.5 | 2066.8 | 2056.4 | 2045.8 | 2021.2 | 2000.1 | 1986.0 | 1968.4 | 1961.4 |
| 30° | 2024.7 | 1996.6 | 1968.4 | 1947.4 | 1936.9 | 1919.3 | 1905.2 | 1880.6 | 1863.0 | 1848.9 | 1831.4 |
| 32.5° | 1887.6 | 1866.5 | 1842.0 | 1810.3 | 1803.3 | 1789.2 | 1768.1 | 1757.5 | 1736.5 | 1726.0 | 1711.9 |
| 35° | 1740.0 | 1726.0 | 1701.3 | 1676.7 | 1666.1 | 1659.1 | 1641.5 | 1620.5 | 1606.4 | 1595.9 | 1588.8 |
| 37.5° | 1599.4 | 1581.8 | 1557.2 | 1539.6 | 1532.5 | 1522.1 | 1501.0 | 1490.4 | 1476.3 | 1469.3 | 1455.2 |
| 40° | 1448.2 | 1430.6 | 1413.1 | 1402.6 | 1392.0 | 1385.0 | 1370.9 | 1360.3 | 1346.3 | 1335.7 | 1332.2 |
| 42.5° | 1300.6 | 1290.1 | 1276.0 | 1261.9 | 1258.4 | 1247.8 | 1240.8 | 1230.2 | 1219.7 | 1216.2 | 1205.7 |
| 45° | 1167.0 | 1156.5 | 1142.4 | 1128.3 | 1124.8 | 1117.8 | 1114.2 | 1103.8 | 1096.8 | 1096.8 | 1096.8 |
| 47.5° | 1033.4 | 1022.9 | 1008.8 | 1001.9 | 1005.3 | 991.3 | 991.3 | 987.8 | 980.7 | 980.7 | 984.3 |
| 50° | 913.9 | 899.8 | 896.4 | 889.4 | 882.3 | 875.3 | 878.8 | 868.3 | 868.3 | 875.3 | 871.8 |
| 52.5° | 801.4 | 787.4 | 783.9 | 776.9 | 773.4 | 773.4 | 769.8 | 769.8 | 766.3 | 769.8 | 769.8 |
| 55° | 699.5 | 688.9 | 682.0 | 674.9 | 671.4 | 671.4 | 671.4 | 667.9 | 664.4 | 671.4 | 674.9 |
| 57.5° | 608.1 | 604.6 | 597.5 | 587.0 | 583.5 | 580.0 | 576.5 | 576.5 | 576.5 | 576.5 | 580.0 |
| 60° | 527.3 | 520.2 | 513.2 | 502.6 | 502.6 | 499.1 | 495.6 | 492.1 | 492.1 | 492.1 | 492.1 |
| 62.5° | 457.0 | 446.4 | 435.9 | 428.8 | 425.3 | 421.8 | 418.3 | 411.3 | 411.3 | 411.3 | 411.3 |
| 65° | 386.6 | 376.1 | 369.1 | 362.1 | 355.1 | 355.1 | 348.0 | 344.5 | 337.5 | 334.0 | 326.9 |
| 67.5° | 319.9 | 312.8 | 305.8 | 295.2 | 291.7 | 288.2 | 281.2 | 277.6 | 267.1 | 263.7 | 260.2 |
| 70° | 260.2 | 249.6 | 242.6 | 235.5 | 232.0 | 225.0 | 217.9 | 210.9 | 203.9 | 196.8 | 189.8 |
| 72.5° | 203.9 | 193.3 | 186.3 | 179.2 | 172.2 | 172.2 | 161.6 | 154.7 | 144.2 | 137.1 | 126.6 |
| 75° | 151.2 | 140.6 | 133.6 | 123.0 | 119.5 | 116.0 | 105.5 | 98.4 | 87.9 | 77.3 | 70.3 |
| 77.5° | 101.9 | 94.9 | 87.9 | 77.3 | 70.3 | 70.3 | 59.7 | 52.8 | 45.7 | 35.2 | 31.7 |
| 80° | 63.2 | 56.2 | 49.3 | 42.2 | 42.2 | 35.2 | 31.7 | 24.6 | 17.6 | 14.1 | 10.6 |
| 82.5° | 35.2 | 31.7 | 28.2 | 21.1 | 21.1 | 17.6 | 14.1 | 10.6 | 7.0 | 3.5 | 3.5 |
| 85° | 17.6 | 14.1 | 10.6 | 10.6 | 7.0 | 7.0 | 7.0 | 3.5 | 3.5 | 0.0 | 0.0 |
| 87.5° | 7.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 |
| 2.5° | 2625.8 | 2625.8 | 2622.2 | 2622.2 | 2622.2 | 2618.7 | 2622.2 | 2618.7 | 2618.7 | 2618.7 | 2622.2 |
| 5° | 2611.7 | 2604.6 | 2604.6 | 2601.1 | 2601.1 | 2597.6 | 2601.1 | 2597.6 | 2594.1 | 2590.6 | 2594.1 |
| 7.5° | 2583.6 | 2576.6 | 2573.1 | 2569.6 | 2569.6 | 2569.6 | 2566.1 | 2562.5 | 2566.1 | 2555.5 | 2562.5 |
| 10° | 2544.9 | 2541.4 | 2534.4 | 2530.9 | 2527.3 | 2530.9 | 2527.3 | 2520.3 | 2520.3 | 2520.3 | 2516.8 |
| 12.5° | 2495.7 | 2488.6 | 2485.1 | 2481.6 | 2474.7 | 2474.7 | 2478.2 | 2471.2 | 2471.2 | 2464.1 | 2464.1 |
| 15° | 2436.0 | 2428.9 | 2421.9 | 2421.9 | 2414.9 | 2414.9 | 2411.3 | 2411.3 | 2407.8 | 2404.3 | 2404.3 |
| 17.5° | 2362.2 | 2351.6 | 2344.6 | 2348.1 | 2344.6 | 2341.1 | 2341.1 | 2334.0 | 2330.5 | 2334.0 | 2334.0 |
| 20° | 2274.2 | 2267.3 | 2260.3 | 2263.8 | 2256.7 | 2253.2 | 2256.7 | 2246.2 | 2249.7 | 2249.7 | 2249.7 |
| 22.5° | 2175.8 | 2172.3 | 2161.8 | 2161.8 | 2154.8 | 2151.3 | 2154.8 | 2154.8 | 2158.3 | 2154.8 | 2154.8 |
| 25° | 2066.8 | 2059.8 | 2052.9 | 2052.9 | 2049.3 | 2045.8 | 2049.3 | 2052.9 | 2049.3 | 2052.9 | 2052.9 |
| 27.5° | 1950.9 | 1940.4 | 1940.4 | 1933.3 | 1933.3 | 1936.9 | 1933.3 | 1936.9 | 1940.4 | 1940.4 | 1947.4 |
| 30° | 1824.4 | 1820.8 | 1817.3 | 1813.8 | 1813.8 | 1817.3 | 1817.3 | 1817.3 | 1820.8 | 1827.9 | 1827.9 |
| 32.5° | 1704.8 | 1697.8 | 1690.8 | 1690.8 | 1697.8 | 1694.3 | 1697.8 | 1697.8 | 1704.8 | 1704.8 | 1711.9 |
| 35° | 1574.8 | 1574.8 | 1567.7 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1578.3 | 1585.3 | 1588.8 | 1595.9 |
| 37.5° | 1455.2 | 1444.7 | 1448.2 | 1448.2 | 1451.7 | 1448.2 | 1458.7 | 1458.7 | 1465.8 | 1465.8 | 1472.8 |
| 40° | 1325.1 | 1325.1 | 1328.7 | 1325.1 | 1328.7 | 1328.7 | 1335.7 | 1342.7 | 1346.3 | 1353.3 | 1356.8 |
| 42.5° | 1202.2 | 1209.2 | 1202.2 | 1205.7 | 1209.2 | 1212.8 | 1216.2 | 1219.7 | 1233.8 | 1240.8 | 1251.4 |
| 45° | 1089.7 | 1093.2 | 1096.8 | 1100.3 | 1096.8 | 1103.8 | 1107.3 | 1114.2 | 1124.8 | 1128.3 | 1131.8 |
| 47.5° | 980.7 | 984.3 | 987.8 | 991.3 | 991.3 | 998.3 | 1001.9 | 1008.8 | 1015.8 | 1019.3 | 1022.9 |
| 50° | 875.3 | 882.3 | 885.8 | 885.8 | 889.4 | 896.4 | 903.3 | 903.3 | 910.4 | 920.9 | 924.4 |
| 52.5° | 780.4 | 780.4 | 787.4 | 791.0 | 794.4 | 794.4 | 804.9 | 808.4 | 812.0 | 819.0 | 826.0 |
| 55° | 674.9 | 685.5 | 688.9 | 688.9 | 695.9 | 703.0 | 706.5 | 710.0 | 710.0 | 724.1 | 724.1 |
| 57.5° | 583.5 | 587.0 | 594.0 | 594.0 | 594.0 | 604.6 | 604.6 | 611.6 | 615.1 | 618.6 | 625.7 |
| 60° | 492.1 | 499.1 | 499.1 | 502.6 | 499.1 | 506.1 | 509.7 | 516.7 | 520.2 | 523.7 | 527.3 |
| 62.5° | 407.7 | 407.7 | 411.3 | 411.3 | 411.3 | 411.3 | 418.3 | 418.3 | 425.3 | 428.8 | 432.4 |
| 65° | 326.9 | 326.9 | 326.9 | 326.9 | 326.9 | 326.9 | 326.9 | 326.9 | 330.4 | 330.4 | 337.5 |
| 67.5° | 253.1 | 249.6 | 242.6 | 246.1 | 242.6 | 242.6 | 239.1 | 239.1 | 242.6 | 242.6 | 249.6 |
| 70° | 182.8 | 179.2 | 172.2 | 172.2 | 168.7 | 165.2 | 161.6 | 158.2 | 154.7 | 154.7 | 154.7 |
| 72.5° | 119.5 | 112.5 | 101.9 | 98.4 | 98.4 | 91.4 | 84.3 | 80.8 | 80.8 | 80.8 | 80.8 |
| 75° | 59.7 | 52.8 | 45.7 | 42.2 | 42.2 | 35.2 | 38.7 | 35.2 | 35.2 | 35.2 | 35.2 |
| 77.5° | 24.6 | 17.6 | 14.1 | 14.1 | 14.1 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 80° | 7.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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: P593783

CATALOG NUMBER: HCC8S45D010SL-HM82555950-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 | 2632.8 |
| 2.5° | 2618.7 | 2618.7 | 2611.7 | 2615.2 | 2615.2 | 2615.2 | 2615.2 | 2615.2 |
| 5° | 2587.1 | 2590.6 | 2587.1 | 2590.6 | 2590.6 | 2587.1 | 2587.1 | 2587.1 |
| 7.5° | 2555.5 | 2559.0 | 2555.5 | 2559.0 | 2559.0 | 2559.0 | 2555.5 | 2555.5 |
| 10° | 2516.8 | 2516.8 | 2516.8 | 2516.8 | 2516.8 | 2513.3 | 2516.8 | 2516.8 |
| 12.5° | 2464.1 | 2464.1 | 2464.1 | 2467.6 | 2467.6 | 2464.1 | 2464.1 | 2460.6 |
| 15° | 2407.8 | 2400.8 | 2404.3 | 2407.8 | 2404.3 | 2404.3 | 2404.3 | 2404.3 |
| 17.5° | 2330.5 | 2334.0 | 2330.5 | 2330.5 | 2330.5 | 2330.5 | 2334.0 | 2330.5 |
| 20° | 2249.7 | 2249.7 | 2253.2 | 2249.7 | 2249.7 | 2249.7 | 2249.7 | 2246.2 |
| 22.5° | 2158.3 | 2154.8 | 2154.8 | 2158.3 | 2158.3 | 2154.8 | 2158.3 | 2158.3 |
| 25° | 2056.4 | 2059.8 | 2056.4 | 2056.4 | 2059.8 | 2059.8 | 2059.8 | 2056.4 |
| 27.5° | 1947.4 | 1950.9 | 1954.3 | 1950.9 | 1950.9 | 1950.9 | 1954.3 | 1957.9 |
| 30° | 1834.9 | 1842.0 | 1834.9 | 1834.9 | 1842.0 | 1838.4 | 1842.0 | 1842.0 |
| 32.5° | 1715.4 | 1726.0 | 1718.9 | 1726.0 | 1726.0 | 1729.5 | 1726.0 | 1729.5 |
| 35° | 1595.9 | 1606.4 | 1606.4 | 1606.4 | 1609.9 | 1613.5 | 1613.5 | 1609.9 |
| 37.5° | 1483.4 | 1486.9 | 1486.9 | 1493.9 | 1497.5 | 1501.0 | 1501.0 | 1497.5 |
| 40° | 1367.4 | 1374.4 | 1377.9 | 1377.9 | 1377.9 | 1385.0 | 1392.0 | 1385.0 |
| 42.5° | 1254.9 | 1258.4 | 1261.9 | 1261.9 | 1269.0 | 1272.5 | 1276.0 | 1276.0 |
| 45° | 1145.9 | 1152.9 | 1156.5 | 1160.0 | 1163.5 | 1170.5 | 1167.0 | 1174.1 |
| 47.5° | 1033.4 | 1044.0 | 1047.5 | 1051.0 | 1058.0 | 1061.6 | 1065.1 | 1068.6 |
| 50° | 931.5 | 938.5 | 938.5 | 945.6 | 956.1 | 956.1 | 963.2 | 966.7 |
| 52.5° | 829.5 | 833.1 | 836.6 | 840.1 | 847.1 | 854.2 | 854.2 | 861.2 |
| 55° | 731.1 | 734.6 | 734.6 | 738.2 | 741.7 | 755.8 | 759.3 | 759.3 |
| 57.5° | 629.2 | 629.2 | 636.2 | 639.8 | 643.3 | 650.3 | 650.3 | 650.3 |
| 60° | 530.8 | 534.3 | 534.3 | 537.8 | 541.3 | 548.4 | 551.9 | 548.4 |
| 62.5° | 432.4 | 435.9 | 435.9 | 439.4 | 446.4 | 450.0 | 446.4 | 446.4 |
| 65° | 341.0 | 344.5 | 344.5 | 348.0 | 355.1 | 355.1 | 351.5 | 355.1 |
| 67.5° | 249.6 | 249.6 | 249.6 | 249.6 | 249.6 | 249.6 | 249.6 | 249.6 |
| 70° | 158.2 | 154.7 | 151.2 | 154.7 | 154.7 | 154.7 | 151.2 | 158.2 |
| 72.5° | 77.3 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 77.3 |
| 75° | 35.2 | 35.2 | 31.7 | 31.7 | 31.7 | 35.2 | 35.2 | 31.7 |
| 77.5° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 80° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

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(END OF REPORT)