

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: P593732

Luminaire Tested: **HCC8S40D010MB-HM82555850-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593732
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: HCC8S40D010MB-HM82555850-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

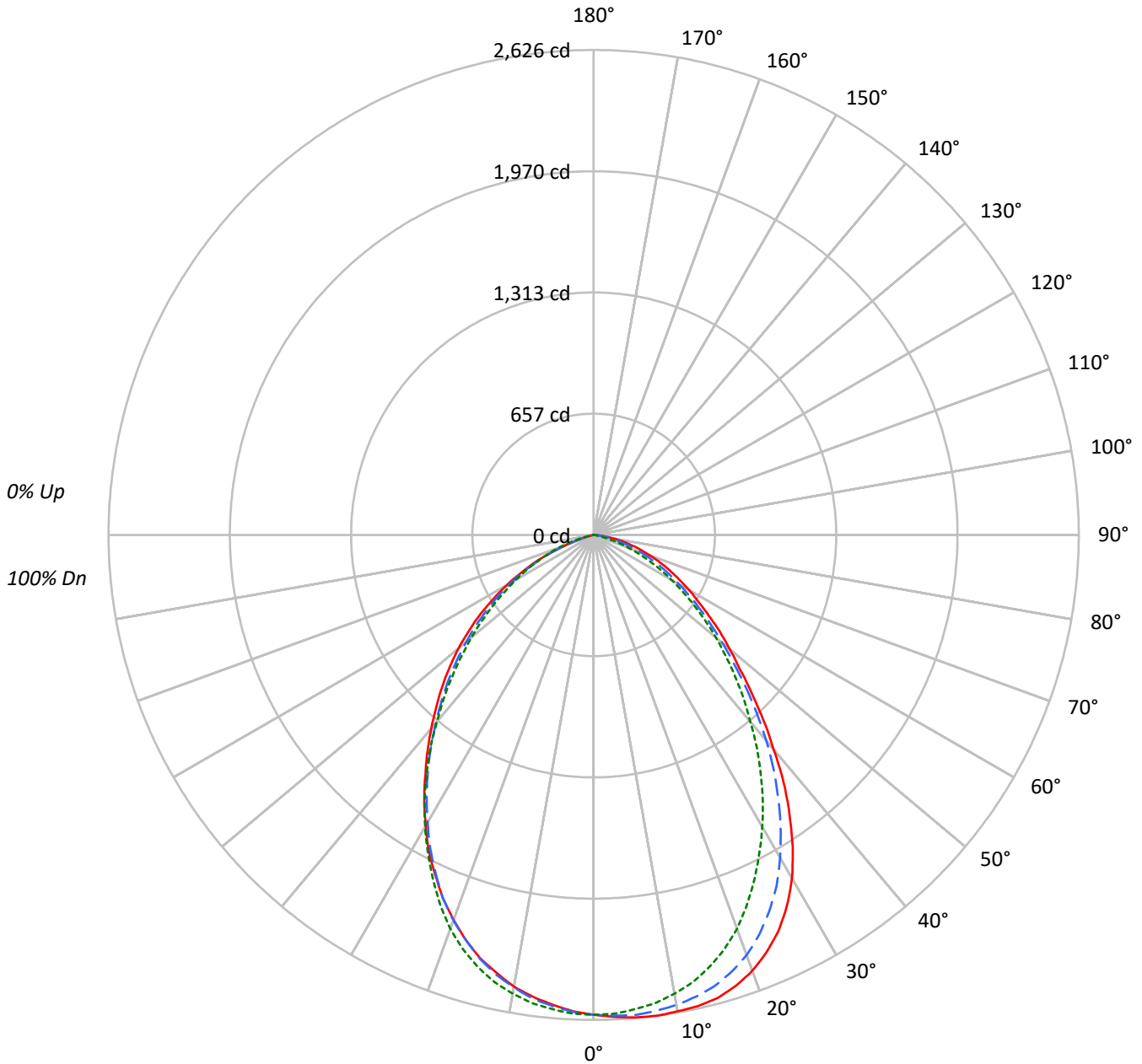
Lumens per Lamp: N/A
Luminaire Lumens: 4938.8 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P593732
CATALOG NUMBER: HCC8S40D010MB-HM82555850-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P593732

CATALOG NUMBER: HCC8S40D010MB-HM82555850-81RWWC

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 80131 | 80131 | 80131 |
| 5° | 81190 | 79793 | 79041 |
| 10° | 82019 | 78978 | 77782 |
| 15° | 82849 | 77307 | 75759 |
| 20° | 82429 | 74458 | 72752 |
| 25° | 80508 | 70001 | 69059 |
| 30° | 76469 | 64982 | 64733 |
| 35° | 69615 | 59293 | 59817 |
| 40° | 61033 | 53071 | 55027 |
| 45° | 52654 | 47203 | 50534 |
| 50° | 46102 | 41444 | 45771 |
| 55° | 40848 | 35628 | 40283 |
| 60° | 36806 | 29961 | 33377 |
| 65° | 33163 | 24049 | 25574 |
| 70° | 29085 | 17518 | 14074 |
| 75° | 24794 | 9091 | 3717 |
| 80° | 19108 | 2468 | 622 |
| 85° | 12277 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 245.2 | 5.0 |
| 10°-20° | 689.2 | 14.0 |
| 20°-30° | 978.3 | 19.8 |
| 30°-40° | 1029.8 | 20.9 |
| 40°-50° | 876.0 | 17.7 |
| 50°-60° | 633.1 | 12.8 |
| 60°-70° | 360.1 | 7.3 |
| 70°-80° | 113.5 | 2.3 |
| 80°-90° | 13.8 | 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° | 1912.7 | 38.7 |
| 0°-40° | 2942.5 | 59.6 |
| 0°-60° | 4451.5 | 90.1 |
| 0°-90° | 4938.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4938.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2599 | 2599 | 2599 | 2599 | 2599 | |
| 5° | 2623 | 2609 | 2578 | 2560 | 2554 | 250 |
| 15° | 2595 | 2529 | 2422 | 2376 | 2373 | 731 |
| 25° | 2366 | 2248 | 2057 | 2023 | 2030 | 1084 |
| 35° | 1849 | 1742 | 1575 | 1565 | 1589 | 1151 |
| 45° | 1207 | 1162 | 1082 | 1110 | 1159 | 939 |
| 55° | 760 | 704 | 663 | 701 | 749 | 685 |
| 65° | 454 | 392 | 330 | 326 | 350 | 451 |
| 75° | 208 | 160 | 76 | 35 | 31 | 224 |
| 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° | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 |
| 2.5° | 2612.5 | 2616.0 | 2609.1 | 2609.1 | 2616.0 | 2609.1 | 2612.5 | 2612.5 | 2609.1 | 2609.1 | 2605.5 |
| 5° | 2622.9 | 2619.4 | 2619.4 | 2619.4 | 2622.9 | 2616.0 | 2612.5 | 2616.0 | 2609.1 | 2609.1 | 2609.1 |
| 7.5° | 2626.3 | 2626.3 | 2622.9 | 2619.4 | 2619.4 | 2619.4 | 2616.0 | 2612.5 | 2609.1 | 2602.1 | 2598.6 |
| 10° | 2619.4 | 2619.4 | 2622.9 | 2616.0 | 2616.0 | 2609.1 | 2609.1 | 2602.1 | 2602.1 | 2595.2 | 2584.7 |
| 12.5° | 2612.5 | 2609.1 | 2609.1 | 2602.1 | 2602.1 | 2595.2 | 2595.2 | 2584.7 | 2581.2 | 2570.9 | 2560.4 |
| 15° | 2595.2 | 2591.7 | 2584.7 | 2581.2 | 2577.8 | 2574.3 | 2567.4 | 2564.0 | 2553.5 | 2539.6 | 2529.2 |
| 17.5° | 2560.4 | 2557.0 | 2553.5 | 2546.6 | 2539.6 | 2536.1 | 2532.7 | 2522.3 | 2508.4 | 2498.0 | 2480.7 |
| 20° | 2511.9 | 2508.4 | 2508.4 | 2498.0 | 2494.5 | 2484.1 | 2480.7 | 2466.8 | 2456.4 | 2435.6 | 2421.6 |
| 22.5° | 2445.9 | 2449.4 | 2442.5 | 2435.6 | 2428.7 | 2418.2 | 2411.3 | 2397.4 | 2380.0 | 2359.2 | 2341.9 |
| 25° | 2366.2 | 2369.6 | 2362.7 | 2355.7 | 2345.4 | 2338.4 | 2331.4 | 2310.6 | 2293.2 | 2269.0 | 2248.1 |
| 27.5° | 2265.5 | 2265.5 | 2265.5 | 2258.6 | 2241.2 | 2237.8 | 2230.9 | 2210.1 | 2185.8 | 2165.0 | 2144.1 |
| 30° | 2147.6 | 2144.1 | 2144.1 | 2133.7 | 2126.8 | 2112.8 | 2102.5 | 2085.1 | 2067.7 | 2043.5 | 2019.2 |
| 32.5° | 2005.4 | 2008.8 | 1998.4 | 1991.5 | 1981.1 | 1981.1 | 1967.2 | 1953.3 | 1932.4 | 1908.2 | 1883.9 |
| 35° | 1849.3 | 1852.7 | 1845.7 | 1842.2 | 1825.0 | 1821.4 | 1818.0 | 1800.6 | 1786.8 | 1769.4 | 1741.7 |
| 37.5° | 1689.7 | 1686.1 | 1682.7 | 1682.7 | 1672.3 | 1665.3 | 1658.4 | 1648.0 | 1627.2 | 1613.3 | 1599.4 |
| 40° | 1516.2 | 1516.2 | 1516.2 | 1512.7 | 1509.2 | 1502.3 | 1498.8 | 1491.9 | 1478.0 | 1464.1 | 1453.7 |
| 42.5° | 1360.1 | 1360.1 | 1356.6 | 1353.0 | 1346.1 | 1349.6 | 1342.7 | 1335.8 | 1321.9 | 1311.5 | 1304.5 |
| 45° | 1207.4 | 1207.4 | 1207.4 | 1210.8 | 1203.9 | 1193.5 | 1193.5 | 1186.5 | 1179.6 | 1172.6 | 1162.3 |
| 47.5° | 1072.1 | 1082.4 | 1075.5 | 1072.1 | 1075.5 | 1061.6 | 1061.6 | 1054.7 | 1047.8 | 1040.9 | 1027.0 |
| 50° | 961.0 | 961.0 | 961.0 | 954.1 | 950.6 | 950.6 | 940.2 | 933.3 | 929.9 | 922.8 | 909.0 |
| 52.5° | 860.4 | 853.5 | 853.5 | 850.0 | 846.6 | 839.7 | 839.7 | 832.6 | 818.8 | 811.8 | 801.5 |
| 55° | 759.8 | 759.8 | 756.4 | 752.9 | 749.3 | 745.9 | 742.4 | 732.1 | 725.1 | 714.7 | 704.2 |
| 57.5° | 669.6 | 676.5 | 673.1 | 666.2 | 659.1 | 659.1 | 652.2 | 645.3 | 634.9 | 624.5 | 614.0 |
| 60° | 596.8 | 593.3 | 593.3 | 589.8 | 582.9 | 579.4 | 576.0 | 565.5 | 555.1 | 544.7 | 534.3 |
| 62.5° | 520.4 | 520.4 | 520.4 | 513.5 | 506.6 | 503.0 | 499.6 | 492.7 | 478.7 | 468.4 | 461.5 |
| 65° | 454.5 | 451.0 | 447.6 | 444.1 | 440.7 | 433.6 | 430.2 | 423.3 | 412.8 | 402.5 | 392.1 |
| 67.5° | 388.5 | 385.1 | 385.1 | 381.6 | 371.3 | 367.7 | 367.7 | 357.4 | 347.0 | 336.5 | 326.2 |
| 70° | 322.6 | 322.6 | 322.6 | 315.7 | 312.3 | 308.8 | 305.4 | 298.3 | 288.0 | 277.5 | 267.2 |
| 72.5° | 267.2 | 263.7 | 263.7 | 260.3 | 249.8 | 246.3 | 242.9 | 236.0 | 225.5 | 218.6 | 211.6 |
| 75° | 208.1 | 208.1 | 204.7 | 201.2 | 197.8 | 194.3 | 190.9 | 183.9 | 173.5 | 163.0 | 159.6 |
| 77.5° | 159.6 | 156.1 | 156.1 | 152.7 | 145.8 | 142.2 | 142.2 | 135.3 | 125.0 | 117.9 | 111.0 |
| 80° | 107.6 | 111.0 | 107.6 | 104.1 | 100.6 | 97.1 | 93.7 | 90.2 | 83.3 | 76.3 | 69.4 |
| 82.5° | 65.9 | 69.4 | 65.9 | 65.9 | 62.5 | 59.0 | 59.0 | 52.0 | 48.6 | 45.1 | 41.6 |
| 85° | 34.7 | 34.7 | 34.7 | 34.7 | 31.2 | 31.2 | 31.2 | 27.7 | 24.3 | 20.8 | 20.8 |
| 87.5° | 10.4 | 13.9 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 6.9 | 6.9 | 6.9 |
| 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° | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 |
| 2.5° | 2609.1 | 2605.5 | 2602.1 | 2602.1 | 2602.1 | 2602.1 | 2602.1 | 2598.6 | 2595.2 | 2595.2 | 2595.2 |
| 5° | 2602.1 | 2602.1 | 2602.1 | 2598.6 | 2595.2 | 2595.2 | 2588.2 | 2584.7 | 2581.2 | 2577.8 | 2574.3 |
| 7.5° | 2595.2 | 2588.2 | 2584.7 | 2581.2 | 2577.8 | 2577.8 | 2570.9 | 2564.0 | 2564.0 | 2557.0 | 2550.1 |
| 10° | 2574.3 | 2570.9 | 2564.0 | 2557.0 | 2553.5 | 2550.1 | 2543.1 | 2532.7 | 2529.2 | 2522.3 | 2515.3 |
| 12.5° | 2550.1 | 2543.1 | 2536.1 | 2522.3 | 2518.9 | 2515.3 | 2501.5 | 2491.0 | 2484.1 | 2480.7 | 2463.3 |
| 15° | 2518.9 | 2505.0 | 2494.5 | 2477.2 | 2473.8 | 2466.8 | 2456.4 | 2445.9 | 2432.1 | 2421.6 | 2414.7 |
| 17.5° | 2463.3 | 2449.4 | 2432.1 | 2414.7 | 2407.8 | 2407.8 | 2390.5 | 2376.5 | 2359.2 | 2352.3 | 2338.4 |
| 20° | 2397.4 | 2380.0 | 2366.2 | 2345.4 | 2334.9 | 2324.5 | 2314.1 | 2293.2 | 2279.4 | 2269.0 | 2251.7 |
| 22.5° | 2321.1 | 2296.8 | 2279.4 | 2258.6 | 2241.2 | 2230.9 | 2213.5 | 2196.1 | 2178.8 | 2168.4 | 2154.5 |
| 25° | 2223.9 | 2203.0 | 2175.3 | 2154.5 | 2144.1 | 2130.2 | 2109.4 | 2092.0 | 2074.8 | 2057.4 | 2050.5 |
| 27.5° | 2116.4 | 2088.6 | 2064.3 | 2040.0 | 2029.7 | 2019.2 | 1994.9 | 1974.1 | 1960.3 | 1942.9 | 1936.0 |
| 30° | 1998.4 | 1970.6 | 1942.9 | 1922.1 | 1911.6 | 1894.4 | 1880.4 | 1856.2 | 1838.8 | 1825.0 | 1807.6 |
| 32.5° | 1863.1 | 1842.2 | 1818.0 | 1786.8 | 1779.9 | 1766.0 | 1745.1 | 1734.8 | 1714.0 | 1703.5 | 1689.7 |
| 35° | 1717.4 | 1703.5 | 1679.2 | 1654.9 | 1644.5 | 1637.6 | 1620.2 | 1599.4 | 1585.6 | 1575.1 | 1568.2 |
| 37.5° | 1578.7 | 1561.3 | 1537.0 | 1519.6 | 1512.7 | 1502.3 | 1481.4 | 1471.1 | 1457.2 | 1450.3 | 1436.3 |
| 40° | 1429.4 | 1412.1 | 1394.7 | 1384.3 | 1373.9 | 1367.0 | 1353.0 | 1342.7 | 1328.8 | 1318.4 | 1315.0 |
| 42.5° | 1283.7 | 1273.3 | 1259.4 | 1245.6 | 1242.1 | 1231.6 | 1224.7 | 1214.3 | 1203.9 | 1200.5 | 1190.0 |
| 45° | 1151.8 | 1141.4 | 1127.5 | 1113.7 | 1110.3 | 1103.2 | 1099.8 | 1089.4 | 1082.4 | 1082.4 | 1082.4 |
| 47.5° | 1020.1 | 1009.6 | 995.7 | 988.8 | 992.2 | 978.4 | 978.4 | 975.0 | 967.9 | 967.9 | 971.4 |
| 50° | 902.0 | 888.2 | 884.8 | 877.7 | 870.8 | 863.9 | 867.4 | 856.9 | 856.9 | 863.9 | 860.4 |
| 52.5° | 791.0 | 777.2 | 773.7 | 766.7 | 763.3 | 763.3 | 759.8 | 759.8 | 756.4 | 759.8 | 759.8 |
| 55° | 690.4 | 680.0 | 673.1 | 666.2 | 662.7 | 662.7 | 662.7 | 659.1 | 655.7 | 662.7 | 666.2 |
| 57.5° | 600.2 | 596.8 | 589.8 | 579.4 | 576.0 | 572.5 | 568.9 | 568.9 | 568.9 | 568.9 | 572.5 |
| 60° | 520.4 | 513.5 | 506.6 | 496.1 | 496.1 | 492.7 | 489.2 | 485.8 | 485.8 | 485.8 | 485.8 |
| 62.5° | 451.0 | 440.7 | 430.2 | 423.3 | 419.8 | 416.4 | 412.8 | 405.9 | 405.9 | 405.9 | 405.9 |
| 65° | 381.6 | 371.3 | 364.3 | 357.4 | 350.5 | 350.5 | 343.4 | 340.0 | 333.1 | 329.6 | 322.6 |
| 67.5° | 315.7 | 308.8 | 301.8 | 291.4 | 288.0 | 284.5 | 277.5 | 274.1 | 263.7 | 260.3 | 256.7 |
| 70° | 256.7 | 246.3 | 239.4 | 232.4 | 229.0 | 222.1 | 215.2 | 208.1 | 201.2 | 194.3 | 187.3 |
| 72.5° | 201.2 | 190.9 | 183.9 | 177.0 | 170.1 | 170.1 | 159.6 | 152.7 | 142.2 | 135.3 | 125.0 |
| 75° | 149.2 | 138.8 | 131.9 | 121.4 | 117.9 | 114.5 | 104.1 | 97.1 | 86.8 | 76.3 | 69.4 |
| 77.5° | 100.6 | 93.7 | 86.8 | 76.3 | 69.4 | 69.4 | 59.0 | 52.0 | 45.1 | 34.7 | 31.2 |
| 80° | 62.5 | 55.5 | 48.6 | 41.6 | 41.6 | 34.7 | 31.2 | 24.3 | 17.4 | 13.9 | 10.4 |
| 82.5° | 34.7 | 31.2 | 27.7 | 20.8 | 20.8 | 17.4 | 13.9 | 10.4 | 6.9 | 3.5 | 3.5 |
| 85° | 17.4 | 13.9 | 10.4 | 10.4 | 6.9 | 6.9 | 6.9 | 3.5 | 3.5 | 0.0 | 0.0 |
| 87.5° | 6.9 | 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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CATALOG NUMBER: HCC8S40D010MB-HM82555850-81RWWC

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 |
| 2.5° | 2591.7 | 2591.7 | 2588.2 | 2588.2 | 2588.2 | 2584.7 | 2588.2 | 2584.7 | 2584.7 | 2584.7 | 2588.2 |
| 5° | 2577.8 | 2570.9 | 2570.9 | 2567.4 | 2567.4 | 2564.0 | 2567.4 | 2564.0 | 2560.4 | 2557.0 | 2560.4 |
| 7.5° | 2550.1 | 2543.1 | 2539.6 | 2536.1 | 2536.1 | 2536.1 | 2532.7 | 2529.2 | 2532.7 | 2522.3 | 2529.2 |
| 10° | 2511.9 | 2508.4 | 2501.5 | 2498.0 | 2494.5 | 2498.0 | 2494.5 | 2487.6 | 2487.6 | 2487.6 | 2484.1 |
| 12.5° | 2463.3 | 2456.4 | 2452.9 | 2449.4 | 2442.5 | 2442.5 | 2445.9 | 2439.0 | 2439.0 | 2432.1 | 2432.1 |
| 15° | 2404.3 | 2397.4 | 2390.5 | 2390.5 | 2383.6 | 2383.6 | 2380.0 | 2380.0 | 2376.5 | 2373.1 | 2373.1 |
| 17.5° | 2331.4 | 2321.1 | 2314.1 | 2317.6 | 2314.1 | 2310.6 | 2310.6 | 2303.7 | 2300.3 | 2303.7 | 2303.7 |
| 20° | 2244.7 | 2237.8 | 2230.9 | 2234.3 | 2227.4 | 2223.9 | 2227.4 | 2217.0 | 2220.4 | 2220.4 | 2220.4 |
| 22.5° | 2147.6 | 2144.1 | 2133.7 | 2133.7 | 2126.8 | 2123.3 | 2126.8 | 2126.8 | 2130.2 | 2126.8 | 2126.8 |
| 25° | 2040.0 | 2033.1 | 2026.2 | 2026.2 | 2022.6 | 2019.2 | 2022.6 | 2026.2 | 2022.6 | 2026.2 | 2026.2 |
| 27.5° | 1925.5 | 1915.2 | 1915.2 | 1908.2 | 1908.2 | 1911.6 | 1908.2 | 1911.6 | 1915.2 | 1915.2 | 1922.1 |
| 30° | 1800.6 | 1797.1 | 1793.7 | 1790.2 | 1790.2 | 1793.7 | 1793.7 | 1793.7 | 1797.1 | 1804.2 | 1804.2 |
| 32.5° | 1682.7 | 1675.8 | 1668.9 | 1668.9 | 1675.8 | 1672.3 | 1675.8 | 1675.8 | 1682.7 | 1682.7 | 1689.7 |
| 35° | 1554.3 | 1554.3 | 1547.4 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1557.8 | 1564.7 | 1568.2 | 1575.1 |
| 37.5° | 1436.3 | 1426.0 | 1429.4 | 1429.4 | 1432.9 | 1429.4 | 1439.8 | 1439.8 | 1446.8 | 1446.8 | 1453.7 |
| 40° | 1307.9 | 1307.9 | 1311.5 | 1307.9 | 1311.5 | 1311.5 | 1318.4 | 1325.3 | 1328.8 | 1335.8 | 1339.2 |
| 42.5° | 1186.5 | 1193.5 | 1186.5 | 1190.0 | 1193.5 | 1196.9 | 1200.5 | 1203.9 | 1217.7 | 1224.7 | 1235.1 |
| 45° | 1075.5 | 1079.0 | 1082.4 | 1086.0 | 1082.4 | 1089.4 | 1092.9 | 1099.8 | 1110.3 | 1113.7 | 1117.2 |
| 47.5° | 967.9 | 971.4 | 975.0 | 978.4 | 978.4 | 985.3 | 988.8 | 995.7 | 1002.7 | 1006.1 | 1009.6 |
| 50° | 863.9 | 870.8 | 874.3 | 874.3 | 877.7 | 884.8 | 891.7 | 891.7 | 898.6 | 909.0 | 912.5 |
| 52.5° | 770.2 | 770.2 | 777.2 | 780.6 | 784.1 | 784.1 | 794.6 | 798.0 | 801.5 | 808.4 | 815.3 |
| 55° | 666.2 | 676.5 | 680.0 | 680.0 | 687.0 | 693.9 | 697.3 | 700.8 | 700.8 | 714.7 | 714.7 |
| 57.5° | 576.0 | 579.4 | 586.3 | 586.3 | 586.3 | 596.8 | 596.8 | 603.7 | 607.1 | 610.6 | 617.6 |
| 60° | 485.8 | 492.7 | 492.7 | 496.1 | 492.7 | 499.6 | 503.0 | 510.0 | 513.5 | 516.9 | 520.4 |
| 62.5° | 402.5 | 402.5 | 405.9 | 405.9 | 405.9 | 405.9 | 412.8 | 412.8 | 419.8 | 423.3 | 426.7 |
| 65° | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 | 326.2 | 326.2 | 333.1 |
| 67.5° | 249.8 | 246.3 | 239.4 | 242.9 | 239.4 | 239.4 | 236.0 | 236.0 | 239.4 | 239.4 | 246.3 |
| 70° | 180.4 | 177.0 | 170.1 | 170.1 | 166.5 | 163.0 | 159.6 | 156.1 | 152.7 | 152.7 | 152.7 |
| 72.5° | 117.9 | 111.0 | 100.6 | 97.1 | 97.1 | 90.2 | 83.3 | 79.8 | 79.8 | 79.8 | 79.8 |
| 75° | 59.0 | 52.0 | 45.1 | 41.6 | 41.6 | 34.7 | 38.2 | 34.7 | 34.7 | 34.7 | 34.7 |
| 77.5° | 24.3 | 17.4 | 13.9 | 13.9 | 13.9 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 80° | 6.9 | 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: P593732

CATALOG NUMBER: HCC8S40D010MB-HM82555850-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 | 2598.6 |
| 2.5° | 2584.7 | 2584.7 | 2577.8 | 2581.2 | 2581.2 | 2581.2 | 2581.2 | 2581.2 |
| 5° | 2553.5 | 2557.0 | 2553.5 | 2557.0 | 2557.0 | 2553.5 | 2553.5 | 2553.5 |
| 7.5° | 2522.3 | 2525.8 | 2522.3 | 2525.8 | 2525.8 | 2525.8 | 2522.3 | 2522.3 |
| 10° | 2484.1 | 2484.1 | 2484.1 | 2484.1 | 2484.1 | 2480.7 | 2484.1 | 2484.1 |
| 12.5° | 2432.1 | 2432.1 | 2432.1 | 2435.6 | 2435.6 | 2432.1 | 2432.1 | 2428.7 |
| 15° | 2376.5 | 2369.6 | 2373.1 | 2376.5 | 2373.1 | 2373.1 | 2373.1 | 2373.1 |
| 17.5° | 2300.3 | 2303.7 | 2300.3 | 2300.3 | 2300.3 | 2300.3 | 2303.7 | 2300.3 |
| 20° | 2220.4 | 2220.4 | 2223.9 | 2220.4 | 2220.4 | 2220.4 | 2220.4 | 2217.0 |
| 22.5° | 2130.2 | 2126.8 | 2126.8 | 2130.2 | 2130.2 | 2126.8 | 2130.2 | 2130.2 |
| 25° | 2029.7 | 2033.1 | 2029.7 | 2029.7 | 2033.1 | 2033.1 | 2033.1 | 2029.7 |
| 27.5° | 1922.1 | 1925.5 | 1929.0 | 1925.5 | 1925.5 | 1925.5 | 1929.0 | 1932.4 |
| 30° | 1811.1 | 1818.0 | 1811.1 | 1811.1 | 1818.0 | 1814.5 | 1818.0 | 1818.0 |
| 32.5° | 1693.1 | 1703.5 | 1696.6 | 1703.5 | 1703.5 | 1706.9 | 1703.5 | 1706.9 |
| 35° | 1575.1 | 1585.6 | 1585.6 | 1585.6 | 1589.0 | 1592.5 | 1592.5 | 1589.0 |
| 37.5° | 1464.1 | 1467.6 | 1467.6 | 1474.5 | 1478.0 | 1481.4 | 1481.4 | 1478.0 |
| 40° | 1349.6 | 1356.6 | 1360.1 | 1360.1 | 1360.1 | 1367.0 | 1373.9 | 1367.0 |
| 42.5° | 1238.6 | 1242.1 | 1245.6 | 1245.6 | 1252.5 | 1255.9 | 1259.4 | 1259.4 |
| 45° | 1131.1 | 1138.0 | 1141.4 | 1144.9 | 1148.4 | 1155.4 | 1151.8 | 1158.8 |
| 47.5° | 1020.1 | 1030.4 | 1033.9 | 1037.3 | 1044.3 | 1047.8 | 1051.2 | 1054.7 |
| 50° | 919.4 | 926.3 | 926.3 | 933.3 | 943.7 | 943.7 | 950.6 | 954.1 |
| 52.5° | 818.8 | 822.3 | 825.7 | 829.2 | 836.1 | 843.1 | 843.1 | 850.0 |
| 55° | 721.6 | 725.1 | 725.1 | 728.6 | 732.1 | 745.9 | 749.3 | 749.3 |
| 57.5° | 621.1 | 621.1 | 628.0 | 631.4 | 634.9 | 641.9 | 641.9 | 641.9 |
| 60° | 523.8 | 527.4 | 527.4 | 530.9 | 534.3 | 541.2 | 544.7 | 541.2 |
| 62.5° | 426.7 | 430.2 | 430.2 | 433.6 | 440.7 | 444.1 | 440.7 | 440.7 |
| 65° | 336.5 | 340.0 | 340.0 | 343.4 | 350.5 | 350.5 | 347.0 | 350.5 |
| 67.5° | 246.3 | 246.3 | 246.3 | 246.3 | 246.3 | 246.3 | 246.3 | 246.3 |
| 70° | 156.1 | 152.7 | 149.2 | 152.7 | 152.7 | 152.7 | 149.2 | 156.1 |
| 72.5° | 76.3 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 76.3 |
| 75° | 34.7 | 34.7 | 31.2 | 31.2 | 31.2 | 34.7 | 34.7 | 31.2 |
| 77.5° | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 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 |

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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)