

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: P584599

Luminaire Tested: **HCC8S40D010MB-HM82555930-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584599
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-HM82555930-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

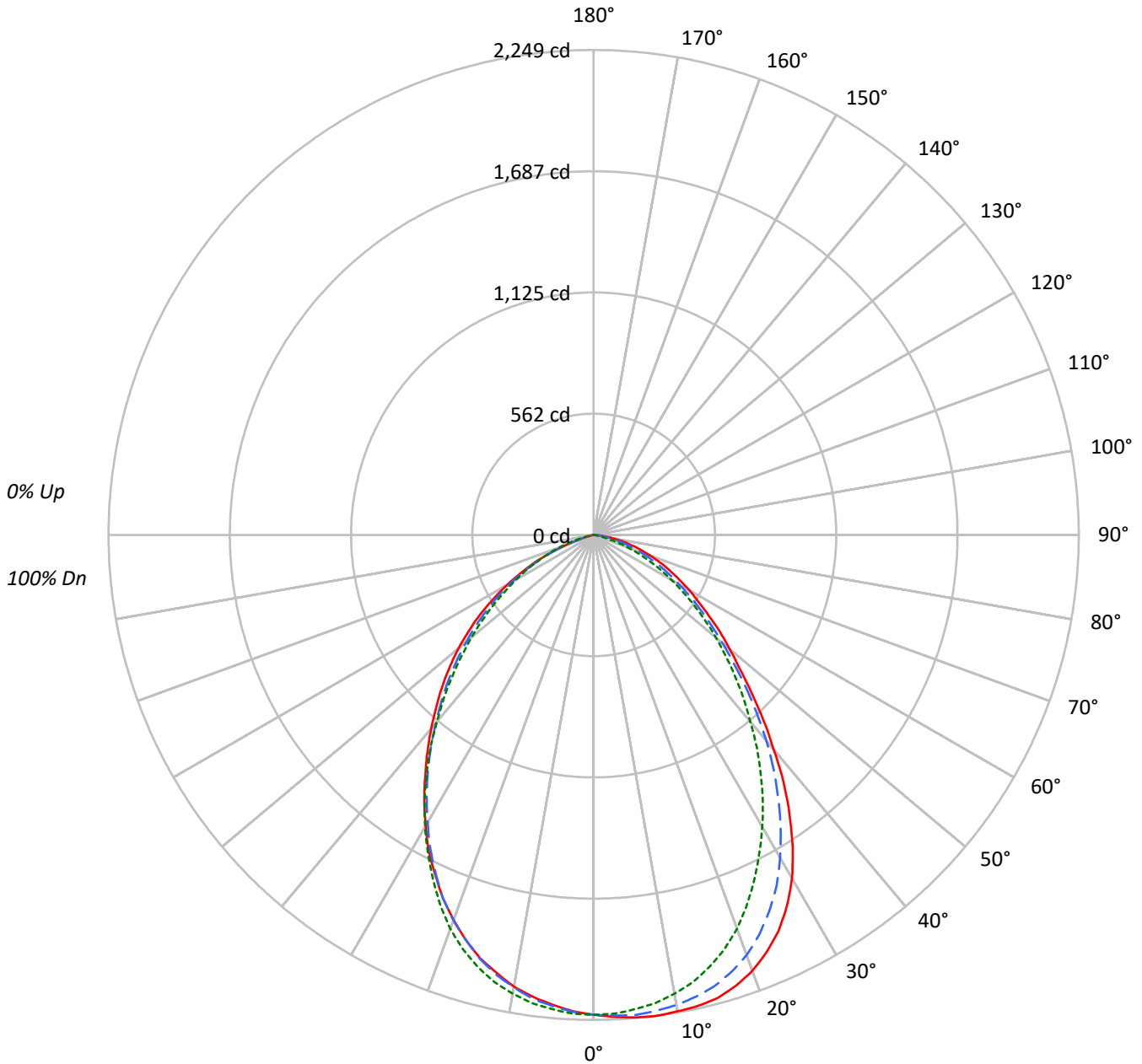
Lumens per Lamp: N/A
Luminaire Lumens: 4229.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | | | | 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° | 68626 | 68626 | 68626 |
| 5° | 69535 | 68337 | 67694 |
| 10° | 70245 | 67640 | 66616 |
| 15° | 70955 | 66214 | 64883 |
| 20° | 70596 | 63770 | 62303 |
| 25° | 68950 | 59950 | 59141 |
| 30° | 65491 | 55650 | 55440 |
| 35° | 59621 | 50782 | 51230 |
| 40° | 52270 | 45451 | 47125 |
| 45° | 45092 | 40426 | 43282 |
| 50° | 39482 | 35490 | 39203 |
| 55° | 34983 | 30510 | 34504 |
| 60° | 31521 | 25656 | 28585 |
| 65° | 28398 | 20598 | 21897 |
| 70° | 24911 | 15003 | 12063 |
| 75° | 21243 | 7780 | 3193 |
| 80° | 16355 | 2113 | 533 |
| 85° | 10543 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.0 | 5.0 |
| 10°-20° | 590.3 | 14.0 |
| 20°-30° | 837.8 | 19.8 |
| 30°-40° | 881.9 | 20.9 |
| 40°-50° | 750.2 | 17.7 |
| 50°-60° | 542.2 | 12.8 |
| 60°-70° | 308.4 | 7.3 |
| 70°-80° | 97.2 | 2.3 |
| 80°-90° | 11.8 | 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° | 1638.1 | 38.7 |
| 0°-40° | 2520.0 | 59.6 |
| 0°-60° | 3812.4 | 90.1 |
| 0°-90° | 4229.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4229.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2226 | 2226 | 2226 | 2226 | 2226 | |
| 5° | 2246 | 2234 | 2208 | 2193 | 2187 | 214 |
| 15° | 2223 | 2166 | 2074 | 2035 | 2032 | 626 |
| 25° | 2026 | 1925 | 1762 | 1732 | 1738 | 928 |
| 35° | 1584 | 1492 | 1349 | 1340 | 1361 | 985 |
| 45° | 1034 | 995 | 927 | 951 | 992 | 804 |
| 55° | 651 | 603 | 568 | 600 | 642 | 587 |
| 65° | 389 | 336 | 282 | 279 | 300 | 386 |
| 75° | 178 | 137 | 65 | 30 | 27 | 192 |
| 85° | 30 | 18 | 0 | 0 | 0 | 38 |
| 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° | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 |
| 2.5° | 2237.4 | 2240.4 | 2234.5 | 2234.5 | 2240.4 | 2234.5 | 2237.4 | 2237.4 | 2234.5 | 2234.5 | 2231.5 |
| 5° | 2246.4 | 2243.4 | 2243.4 | 2243.4 | 2246.4 | 2240.4 | 2237.4 | 2240.4 | 2234.5 | 2234.5 | 2234.5 |
| 7.5° | 2249.3 | 2249.3 | 2246.4 | 2243.4 | 2243.4 | 2243.4 | 2240.4 | 2237.4 | 2234.5 | 2228.5 | 2225.5 |
| 10° | 2243.4 | 2243.4 | 2246.4 | 2240.4 | 2240.4 | 2234.5 | 2234.5 | 2228.5 | 2228.5 | 2222.6 | 2213.6 |
| 12.5° | 2237.4 | 2234.5 | 2234.5 | 2228.5 | 2228.5 | 2222.6 | 2222.6 | 2213.6 | 2210.7 | 2201.7 | 2192.8 |
| 15° | 2222.6 | 2219.6 | 2213.6 | 2210.7 | 2207.7 | 2204.7 | 2198.8 | 2195.8 | 2186.9 | 2175.0 | 2166.2 |
| 17.5° | 2192.8 | 2189.8 | 2186.9 | 2180.9 | 2175.0 | 2172.0 | 2169.1 | 2160.2 | 2148.3 | 2139.4 | 2124.5 |
| 20° | 2151.3 | 2148.3 | 2148.3 | 2139.4 | 2136.4 | 2127.5 | 2124.5 | 2112.6 | 2103.7 | 2085.8 | 2074.1 |
| 22.5° | 2094.8 | 2097.7 | 2091.8 | 2085.8 | 2079.9 | 2071.1 | 2065.1 | 2053.2 | 2038.4 | 2020.5 | 2005.6 |
| 25° | 2026.5 | 2029.4 | 2023.5 | 2017.5 | 2008.6 | 2002.7 | 1996.7 | 1978.9 | 1964.1 | 1943.3 | 1925.4 |
| 27.5° | 1940.3 | 1940.3 | 1940.3 | 1934.3 | 1919.5 | 1916.5 | 1910.5 | 1892.7 | 1872.0 | 1854.1 | 1836.3 |
| 30° | 1839.3 | 1836.3 | 1836.3 | 1827.4 | 1821.4 | 1809.5 | 1800.6 | 1785.7 | 1771.0 | 1750.1 | 1729.3 |
| 32.5° | 1717.4 | 1720.4 | 1711.5 | 1705.5 | 1696.6 | 1696.6 | 1684.8 | 1672.9 | 1655.1 | 1634.2 | 1613.4 |
| 35° | 1583.8 | 1586.7 | 1580.8 | 1577.8 | 1562.9 | 1560.0 | 1557.0 | 1542.1 | 1530.2 | 1515.3 | 1491.7 |
| 37.5° | 1447.0 | 1444.1 | 1441.1 | 1441.1 | 1432.2 | 1426.2 | 1420.3 | 1411.3 | 1393.6 | 1381.7 | 1369.8 |
| 40° | 1298.5 | 1298.5 | 1298.5 | 1295.6 | 1292.6 | 1286.6 | 1283.7 | 1277.7 | 1265.8 | 1253.9 | 1245.0 |
| 42.5° | 1164.8 | 1164.8 | 1161.8 | 1158.8 | 1152.9 | 1155.8 | 1149.9 | 1143.9 | 1132.0 | 1123.1 | 1117.2 |
| 45° | 1034.0 | 1034.0 | 1034.0 | 1037.0 | 1031.0 | 1022.1 | 1022.1 | 1016.1 | 1010.3 | 1004.4 | 995.4 |
| 47.5° | 918.1 | 927.0 | 921.1 | 918.1 | 921.1 | 909.3 | 909.3 | 903.3 | 897.4 | 891.4 | 879.5 |
| 50° | 823.0 | 823.0 | 823.0 | 817.2 | 814.2 | 814.2 | 805.3 | 799.3 | 796.3 | 790.4 | 778.5 |
| 52.5° | 736.8 | 730.9 | 730.9 | 727.9 | 724.9 | 719.1 | 719.1 | 713.2 | 701.3 | 695.3 | 686.4 |
| 55° | 650.7 | 650.7 | 647.7 | 644.7 | 641.8 | 638.8 | 635.8 | 627.0 | 621.1 | 612.1 | 603.2 |
| 57.5° | 573.5 | 579.4 | 576.4 | 570.5 | 564.5 | 564.5 | 558.6 | 552.6 | 543.7 | 534.8 | 526.0 |
| 60° | 511.1 | 508.1 | 508.1 | 505.2 | 499.2 | 496.2 | 493.3 | 484.3 | 475.4 | 466.5 | 457.6 |
| 62.5° | 445.7 | 445.7 | 445.7 | 439.7 | 433.9 | 430.9 | 427.9 | 422.0 | 410.1 | 401.1 | 395.2 |
| 65° | 389.2 | 386.3 | 383.3 | 380.3 | 377.3 | 371.4 | 368.4 | 362.5 | 353.5 | 344.6 | 335.8 |
| 67.5° | 332.8 | 329.9 | 329.9 | 326.9 | 318.0 | 315.0 | 315.0 | 306.1 | 297.1 | 288.2 | 279.3 |
| 70° | 276.3 | 276.3 | 276.3 | 270.4 | 267.4 | 264.4 | 261.4 | 255.5 | 246.6 | 237.8 | 228.8 |
| 72.5° | 228.8 | 225.9 | 225.9 | 222.9 | 214.0 | 211.0 | 208.0 | 202.1 | 193.1 | 187.2 | 181.2 |
| 75° | 178.3 | 178.3 | 175.3 | 172.3 | 169.3 | 166.4 | 163.4 | 157.4 | 148.5 | 139.7 | 136.7 |
| 77.5° | 136.7 | 133.8 | 133.8 | 130.8 | 124.8 | 121.9 | 121.9 | 115.9 | 107.0 | 101.0 | 95.1 |
| 80° | 92.1 | 95.1 | 92.1 | 89.1 | 86.2 | 83.2 | 80.2 | 77.2 | 71.3 | 65.3 | 59.4 |
| 82.5° | 56.4 | 59.4 | 56.4 | 56.4 | 53.4 | 50.5 | 50.5 | 44.6 | 41.6 | 38.7 | 35.7 |
| 85° | 29.8 | 29.8 | 29.8 | 29.8 | 26.8 | 26.8 | 26.8 | 23.8 | 20.8 | 17.8 | 17.8 |
| 87.5° | 8.9 | 11.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 5.9 | 5.9 | 5.9 |
| 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° | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 |
| 2.5° | 2234.5 | 2231.5 | 2228.5 | 2228.5 | 2228.5 | 2228.5 | 2228.5 | 2225.5 | 2222.6 | 2222.6 | 2222.6 |
| 5° | 2228.5 | 2228.5 | 2228.5 | 2225.5 | 2222.6 | 2222.6 | 2216.6 | 2213.6 | 2210.7 | 2207.7 | 2204.7 |
| 7.5° | 2222.6 | 2216.6 | 2213.6 | 2210.7 | 2207.7 | 2207.7 | 2201.7 | 2195.8 | 2195.8 | 2189.8 | 2183.9 |
| 10° | 2204.7 | 2201.7 | 2195.8 | 2189.8 | 2186.9 | 2183.9 | 2177.9 | 2169.1 | 2166.2 | 2160.2 | 2154.3 |
| 12.5° | 2183.9 | 2177.9 | 2172.0 | 2160.2 | 2157.2 | 2154.3 | 2142.4 | 2133.4 | 2127.5 | 2124.5 | 2109.6 |
| 15° | 2157.2 | 2145.3 | 2136.4 | 2121.5 | 2118.6 | 2112.6 | 2103.7 | 2094.8 | 2082.9 | 2074.1 | 2068.1 |
| 17.5° | 2109.6 | 2097.7 | 2082.9 | 2068.1 | 2062.2 | 2062.2 | 2047.3 | 2035.4 | 2020.5 | 2014.6 | 2002.7 |
| 20° | 2053.2 | 2038.4 | 2026.5 | 2008.6 | 1999.7 | 1990.8 | 1981.8 | 1964.1 | 1952.2 | 1943.3 | 1928.4 |
| 22.5° | 1987.8 | 1967.1 | 1952.2 | 1934.3 | 1919.5 | 1910.5 | 1895.7 | 1880.9 | 1866.0 | 1857.1 | 1845.2 |
| 25° | 1904.6 | 1886.7 | 1863.1 | 1845.2 | 1836.3 | 1824.4 | 1806.5 | 1791.7 | 1776.9 | 1762.0 | 1756.1 |
| 27.5° | 1812.5 | 1788.7 | 1768.0 | 1747.2 | 1738.2 | 1729.3 | 1708.5 | 1690.6 | 1678.9 | 1664.0 | 1658.0 |
| 30° | 1711.5 | 1687.8 | 1664.0 | 1646.1 | 1637.2 | 1622.3 | 1610.4 | 1589.7 | 1574.8 | 1562.9 | 1548.1 |
| 32.5° | 1595.6 | 1577.8 | 1557.0 | 1530.2 | 1524.3 | 1512.4 | 1494.6 | 1485.7 | 1467.9 | 1458.9 | 1447.0 |
| 35° | 1470.8 | 1458.9 | 1438.1 | 1417.3 | 1408.4 | 1402.4 | 1387.7 | 1369.8 | 1357.9 | 1349.0 | 1343.0 |
| 37.5° | 1352.0 | 1337.1 | 1316.3 | 1301.5 | 1295.6 | 1286.6 | 1268.8 | 1259.9 | 1248.0 | 1242.0 | 1230.1 |
| 40° | 1224.2 | 1209.3 | 1194.5 | 1185.6 | 1176.7 | 1170.7 | 1158.8 | 1149.9 | 1138.0 | 1129.1 | 1126.1 |
| 42.5° | 1099.4 | 1090.5 | 1078.6 | 1066.7 | 1063.7 | 1054.8 | 1048.9 | 1039.9 | 1031.0 | 1028.0 | 1019.1 |
| 45° | 986.5 | 977.6 | 965.7 | 953.8 | 950.8 | 944.9 | 941.9 | 933.0 | 927.0 | 927.0 | 927.0 |
| 47.5° | 873.6 | 864.7 | 852.8 | 846.8 | 849.8 | 837.9 | 837.9 | 834.9 | 829.0 | 829.0 | 831.9 |
| 50° | 772.5 | 760.6 | 757.7 | 751.7 | 745.8 | 739.8 | 742.8 | 733.9 | 733.9 | 739.8 | 736.8 |
| 52.5° | 677.5 | 665.6 | 662.6 | 656.6 | 653.7 | 653.7 | 650.7 | 650.7 | 647.7 | 650.7 | 650.7 |
| 55° | 591.3 | 582.4 | 576.4 | 570.5 | 567.5 | 567.5 | 567.5 | 564.5 | 561.6 | 567.5 | 570.5 |
| 57.5° | 514.1 | 511.1 | 505.2 | 496.2 | 493.3 | 490.3 | 487.3 | 487.3 | 487.3 | 487.3 | 490.3 |
| 60° | 445.7 | 439.7 | 433.9 | 424.9 | 424.9 | 422.0 | 419.0 | 416.0 | 416.0 | 416.0 | 416.0 |
| 62.5° | 386.3 | 377.3 | 368.4 | 362.5 | 359.5 | 356.5 | 353.5 | 347.6 | 347.6 | 347.6 | 347.6 |
| 65° | 326.9 | 318.0 | 312.0 | 306.1 | 300.1 | 300.1 | 294.2 | 291.2 | 285.2 | 282.3 | 276.3 |
| 67.5° | 270.4 | 264.4 | 258.5 | 249.5 | 246.6 | 243.6 | 237.8 | 234.8 | 225.9 | 222.9 | 219.9 |
| 70° | 219.9 | 211.0 | 205.0 | 199.1 | 196.1 | 190.2 | 184.2 | 178.3 | 172.3 | 166.4 | 160.4 |
| 72.5° | 172.3 | 163.4 | 157.4 | 151.5 | 145.5 | 145.5 | 136.7 | 130.8 | 121.9 | 115.9 | 107.0 |
| 75° | 127.8 | 118.9 | 112.9 | 104.0 | 101.0 | 98.1 | 89.1 | 83.2 | 74.3 | 65.3 | 59.4 |
| 77.5° | 86.2 | 80.2 | 74.3 | 65.3 | 59.4 | 59.4 | 50.5 | 44.6 | 38.7 | 29.8 | 26.8 |
| 80° | 53.4 | 47.6 | 41.6 | 35.7 | 35.7 | 29.8 | 26.8 | 20.8 | 14.9 | 11.9 | 8.9 |
| 82.5° | 29.8 | 26.8 | 23.8 | 17.8 | 17.8 | 14.9 | 11.9 | 8.9 | 5.9 | 3.0 | 3.0 |
| 85° | 14.9 | 11.9 | 8.9 | 8.9 | 5.9 | 5.9 | 5.9 | 3.0 | 3.0 | 0.0 | 0.0 |
| 87.5° | 5.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 |
| 2.5° | 2219.6 | 2219.6 | 2216.6 | 2216.6 | 2216.6 | 2213.6 | 2216.6 | 2213.6 | 2213.6 | 2213.6 | 2216.6 |
| 5° | 2207.7 | 2201.7 | 2201.7 | 2198.8 | 2198.8 | 2195.8 | 2198.8 | 2195.8 | 2192.8 | 2189.8 | 2192.8 |
| 7.5° | 2183.9 | 2177.9 | 2175.0 | 2172.0 | 2172.0 | 2172.0 | 2169.1 | 2166.2 | 2169.1 | 2160.2 | 2166.2 |
| 10° | 2151.3 | 2148.3 | 2142.4 | 2139.4 | 2136.4 | 2139.4 | 2136.4 | 2130.5 | 2130.5 | 2130.5 | 2127.5 |
| 12.5° | 2109.6 | 2103.7 | 2100.7 | 2097.7 | 2091.8 | 2091.8 | 2094.8 | 2088.8 | 2088.8 | 2082.9 | 2082.9 |
| 15° | 2059.2 | 2053.2 | 2047.3 | 2047.3 | 2041.3 | 2041.3 | 2038.4 | 2038.4 | 2035.4 | 2032.4 | 2032.4 |
| 17.5° | 1996.7 | 1987.8 | 1981.8 | 1984.8 | 1981.8 | 1978.9 | 1978.9 | 1973.0 | 1970.0 | 1973.0 | 1973.0 |
| 20° | 1922.4 | 1916.5 | 1910.5 | 1913.5 | 1907.6 | 1904.6 | 1907.6 | 1898.6 | 1901.6 | 1901.6 | 1901.6 |
| 22.5° | 1839.3 | 1836.3 | 1827.4 | 1827.4 | 1821.4 | 1818.4 | 1821.4 | 1821.4 | 1824.4 | 1821.4 | 1821.4 |
| 25° | 1747.2 | 1741.2 | 1735.3 | 1735.3 | 1732.3 | 1729.3 | 1732.3 | 1735.3 | 1732.3 | 1735.3 | 1735.3 |
| 27.5° | 1649.1 | 1640.2 | 1640.2 | 1634.2 | 1634.2 | 1637.2 | 1634.2 | 1637.2 | 1640.2 | 1640.2 | 1646.1 |
| 30° | 1542.1 | 1539.1 | 1536.2 | 1533.2 | 1533.2 | 1536.2 | 1536.2 | 1536.2 | 1539.1 | 1545.1 | 1545.1 |
| 32.5° | 1441.1 | 1435.1 | 1429.2 | 1429.2 | 1435.1 | 1432.2 | 1435.1 | 1435.1 | 1441.1 | 1441.1 | 1447.0 |
| 35° | 1331.1 | 1331.1 | 1325.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1334.1 | 1340.1 | 1343.0 | 1349.0 |
| 37.5° | 1230.1 | 1221.2 | 1224.2 | 1224.2 | 1227.1 | 1224.2 | 1233.1 | 1233.1 | 1239.0 | 1239.0 | 1245.0 |
| 40° | 1120.1 | 1120.1 | 1123.1 | 1120.1 | 1123.1 | 1123.1 | 1129.1 | 1135.0 | 1138.0 | 1143.9 | 1146.9 |
| 42.5° | 1016.1 | 1022.1 | 1016.1 | 1019.1 | 1022.1 | 1025.1 | 1028.0 | 1031.0 | 1042.9 | 1048.9 | 1057.8 |
| 45° | 921.1 | 924.0 | 927.0 | 930.0 | 927.0 | 933.0 | 935.9 | 941.9 | 950.8 | 953.8 | 956.8 |
| 47.5° | 829.0 | 831.9 | 834.9 | 837.9 | 837.9 | 843.8 | 846.8 | 852.8 | 858.7 | 861.7 | 864.7 |
| 50° | 739.8 | 745.8 | 748.7 | 748.7 | 751.7 | 757.7 | 763.6 | 763.6 | 769.6 | 778.5 | 781.5 |
| 52.5° | 659.6 | 659.6 | 665.6 | 668.5 | 671.5 | 671.5 | 680.4 | 683.4 | 686.4 | 692.3 | 698.3 |
| 55° | 570.5 | 579.4 | 582.4 | 582.4 | 588.3 | 594.3 | 597.3 | 600.2 | 600.2 | 612.1 | 612.1 |
| 57.5° | 493.3 | 496.2 | 502.2 | 502.2 | 502.2 | 511.1 | 511.1 | 517.1 | 520.0 | 523.0 | 529.0 |
| 60° | 416.0 | 422.0 | 422.0 | 424.9 | 422.0 | 427.9 | 430.9 | 436.7 | 439.7 | 442.7 | 445.7 |
| 62.5° | 344.6 | 344.6 | 347.6 | 347.6 | 347.6 | 347.6 | 353.5 | 353.5 | 359.5 | 362.5 | 365.4 |
| 65° | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 279.3 | 279.3 | 285.2 |
| 67.5° | 214.0 | 211.0 | 205.0 | 208.0 | 205.0 | 205.0 | 202.1 | 202.1 | 205.0 | 205.0 | 211.0 |
| 70° | 154.5 | 151.5 | 145.5 | 145.5 | 142.7 | 139.7 | 136.7 | 133.8 | 130.8 | 130.8 | 130.8 |
| 72.5° | 101.0 | 95.1 | 86.2 | 83.2 | 83.2 | 77.2 | 71.3 | 68.3 | 68.3 | 68.3 | 68.3 |
| 75° | 50.5 | 44.6 | 38.7 | 35.7 | 35.7 | 29.8 | 32.7 | 29.8 | 29.8 | 29.8 | 29.8 |
| 77.5° | 20.8 | 14.9 | 11.9 | 11.9 | 11.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 80° | 5.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 82.5° | 3.0 | 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: P584599

CATALOG NUMBER: HCC8S40D010MB-HM82555930-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 | 2225.5 |
| 2.5° | 2213.6 | 2213.6 | 2207.7 | 2210.7 | 2210.7 | 2210.7 | 2210.7 | 2210.7 |
| 5° | 2186.9 | 2189.8 | 2186.9 | 2189.8 | 2189.8 | 2186.9 | 2186.9 | 2186.9 |
| 7.5° | 2160.2 | 2163.2 | 2160.2 | 2163.2 | 2163.2 | 2163.2 | 2160.2 | 2160.2 |
| 10° | 2127.5 | 2127.5 | 2127.5 | 2127.5 | 2127.5 | 2124.5 | 2127.5 | 2127.5 |
| 12.5° | 2082.9 | 2082.9 | 2082.9 | 2085.8 | 2085.8 | 2082.9 | 2082.9 | 2079.9 |
| 15° | 2035.4 | 2029.4 | 2032.4 | 2035.4 | 2032.4 | 2032.4 | 2032.4 | 2032.4 |
| 17.5° | 1970.0 | 1973.0 | 1970.0 | 1970.0 | 1970.0 | 1970.0 | 1973.0 | 1970.0 |
| 20° | 1901.6 | 1901.6 | 1904.6 | 1901.6 | 1901.6 | 1901.6 | 1901.6 | 1898.6 |
| 22.5° | 1824.4 | 1821.4 | 1821.4 | 1824.4 | 1824.4 | 1821.4 | 1824.4 | 1824.4 |
| 25° | 1738.2 | 1741.2 | 1738.2 | 1738.2 | 1741.2 | 1741.2 | 1741.2 | 1738.2 |
| 27.5° | 1646.1 | 1649.1 | 1652.1 | 1649.1 | 1649.1 | 1649.1 | 1652.1 | 1655.1 |
| 30° | 1551.0 | 1557.0 | 1551.0 | 1551.0 | 1557.0 | 1554.0 | 1557.0 | 1557.0 |
| 32.5° | 1450.0 | 1458.9 | 1453.0 | 1458.9 | 1458.9 | 1461.9 | 1458.9 | 1461.9 |
| 35° | 1349.0 | 1357.9 | 1357.9 | 1357.9 | 1360.9 | 1363.9 | 1363.9 | 1360.9 |
| 37.5° | 1253.9 | 1256.9 | 1256.9 | 1262.8 | 1265.8 | 1268.8 | 1268.8 | 1265.8 |
| 40° | 1155.8 | 1161.8 | 1164.8 | 1164.8 | 1164.8 | 1170.7 | 1176.7 | 1170.7 |
| 42.5° | 1060.8 | 1063.7 | 1066.7 | 1066.7 | 1072.7 | 1075.6 | 1078.6 | 1078.6 |
| 45° | 968.7 | 974.6 | 977.6 | 980.6 | 983.5 | 989.5 | 986.5 | 992.5 |
| 47.5° | 873.6 | 882.5 | 885.5 | 888.5 | 894.4 | 897.4 | 900.4 | 903.3 |
| 50° | 787.4 | 793.4 | 793.4 | 799.3 | 808.2 | 808.2 | 814.2 | 817.2 |
| 52.5° | 701.3 | 704.2 | 707.2 | 710.2 | 716.1 | 722.1 | 722.1 | 727.9 |
| 55° | 618.1 | 621.1 | 621.1 | 624.0 | 627.0 | 638.8 | 641.8 | 641.8 |
| 57.5° | 531.8 | 531.8 | 537.8 | 540.7 | 543.7 | 549.7 | 549.7 | 549.7 |
| 60° | 448.6 | 451.6 | 451.6 | 454.6 | 457.6 | 463.5 | 466.5 | 463.5 |
| 62.5° | 365.4 | 368.4 | 368.4 | 371.4 | 377.3 | 380.3 | 377.3 | 377.3 |
| 65° | 288.2 | 291.2 | 291.2 | 294.2 | 300.1 | 300.1 | 297.1 | 300.1 |
| 67.5° | 211.0 | 211.0 | 211.0 | 211.0 | 211.0 | 211.0 | 211.0 | 211.0 |
| 70° | 133.8 | 130.8 | 127.8 | 130.8 | 130.8 | 130.8 | 127.8 | 133.8 |
| 72.5° | 65.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 65.3 |
| 75° | 29.8 | 29.8 | 26.8 | 26.8 | 26.8 | 29.8 | 29.8 | 26.8 |
| 77.5° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 80° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 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
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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)