

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: P593785

Luminaire Tested: **HCC8S45D010MB-HM82555950-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MB-HM82555950-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

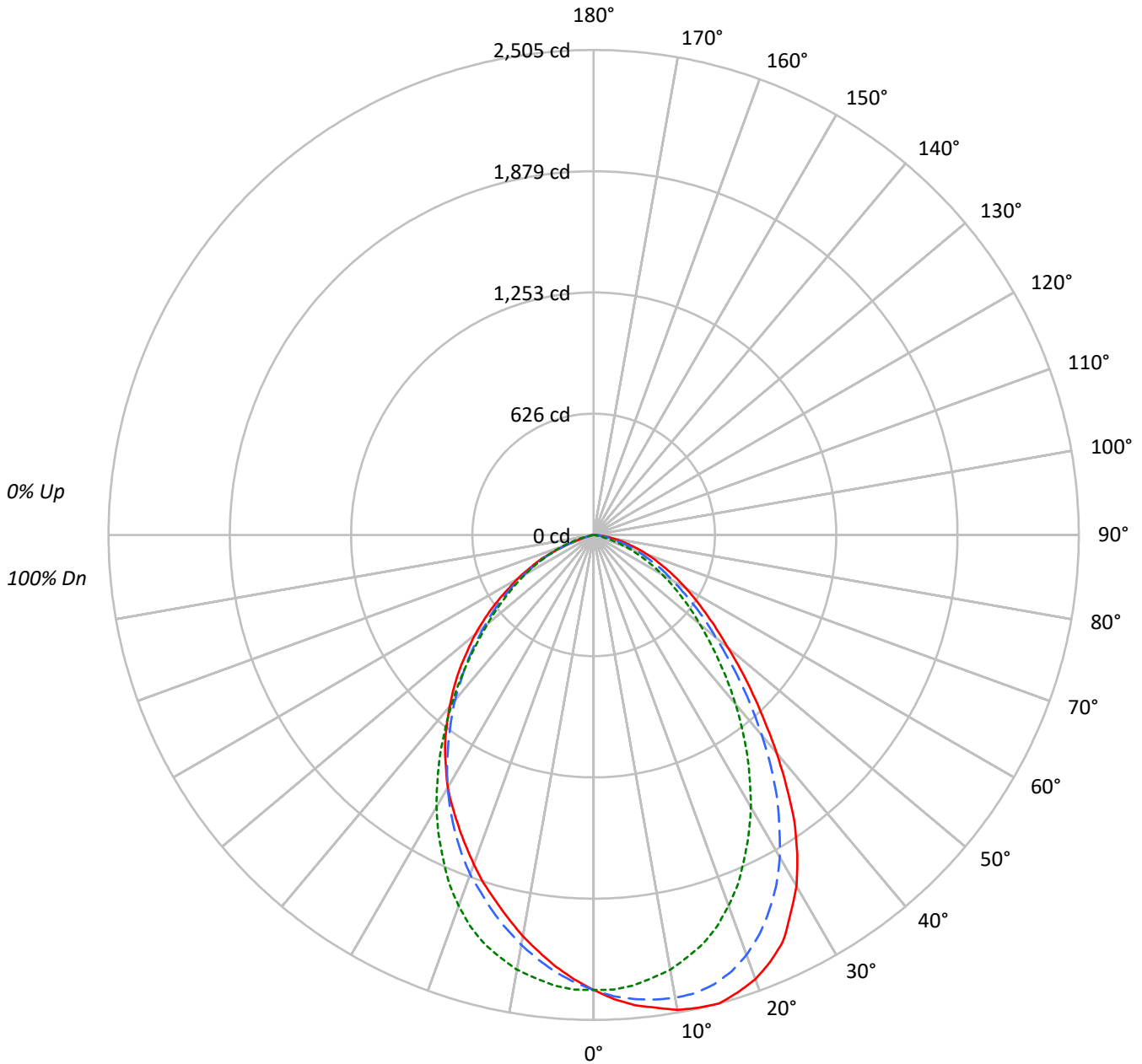
Lumens per Lamp: N/A
Luminaire Lumens: 4378.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593785
CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WWBB

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 | 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 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | 43 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | 39 | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 72484 | 72484 | 72484 |
| 5° | 75478 | 72324 | 69278 |
| 10° | 78001 | 71401 | 65899 |
| 15° | 79976 | 69767 | 62475 |
| 20° | 80135 | 66874 | 59379 |
| 25° | 78779 | 62642 | 56306 |
| 30° | 74560 | 57797 | 53670 |
| 35° | 67985 | 51983 | 50391 |
| 40° | 59117 | 45825 | 46534 |
| 45° | 50717 | 39684 | 42597 |
| 50° | 43319 | 34219 | 38258 |
| 55° | 37972 | 29467 | 33246 |
| 60° | 33803 | 25138 | 27950 |
| 65° | 29996 | 20510 | 22305 |
| 70° | 26606 | 15210 | 12667 |
| 75° | 22196 | 7947 | 3777 |
| 80° | 17474 | 2504 | 622 |
| 85° | 12454 | 1238 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 221.5 | 5.1 |
| 10°-20° | 620.8 | 14.2 |
| 20°-30° | 878.6 | 20.1 |
| 30°-40° | 919.2 | 21.0 |
| 40°-50° | 766.7 | 17.5 |
| 50°-60° | 543.7 | 12.4 |
| 60°-70° | 313.1 | 7.2 |
| 70°-80° | 100.8 | 2.3 |
| 80°-90° | 13.9 | 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° | 1720.9 | 39.3 |
| 0°-40° | 2640.1 | 60.3 |
| 0°-60° | 3950.6 | 90.2 |
| 0°-90° | 4378.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4378.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2351 | 2351 | 2351 | 2351 | 2351 | |
| 5° | 2438 | 2407 | 2336 | 2266 | 2238 | 234 |
| 15° | 2505 | 2403 | 2185 | 2013 | 1957 | 704 |
| 25° | 2315 | 2143 | 1841 | 1694 | 1655 | 1057 |
| 35° | 1806 | 1648 | 1381 | 1307 | 1339 | 1120 |
| 45° | 1163 | 1068 | 910 | 921 | 977 | 901 |
| 55° | 706 | 632 | 548 | 576 | 618 | 638 |
| 65° | 411 | 344 | 281 | 281 | 306 | 411 |
| 75° | 186 | 137 | 67 | 32 | 32 | 202 |
| 85° | 35 | 18 | 4 | 0 | 0 | 44 |
| 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° | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 |
| 2.5° | 2399.7 | 2396.2 | 2392.7 | 2396.2 | 2392.7 | 2396.2 | 2392.7 | 2392.7 | 2389.2 | 2385.6 | 2385.6 |
| 5° | 2438.4 | 2434.9 | 2434.9 | 2434.9 | 2431.4 | 2427.9 | 2427.9 | 2424.4 | 2417.3 | 2413.8 | 2406.8 |
| 7.5° | 2462.9 | 2466.5 | 2466.5 | 2466.5 | 2459.4 | 2459.4 | 2452.4 | 2445.4 | 2438.4 | 2431.4 | 2420.8 |
| 10° | 2491.1 | 2491.1 | 2487.6 | 2484.1 | 2477.0 | 2473.5 | 2470.0 | 2462.9 | 2452.4 | 2438.4 | 2427.9 |
| 12.5° | 2501.7 | 2501.7 | 2498.1 | 2491.1 | 2487.6 | 2484.1 | 2480.5 | 2470.0 | 2455.9 | 2438.4 | 2424.4 |
| 15° | 2505.2 | 2498.1 | 2494.6 | 2491.1 | 2484.1 | 2473.5 | 2473.5 | 2459.4 | 2442.0 | 2420.8 | 2403.2 |
| 17.5° | 2477.0 | 2480.5 | 2473.5 | 2466.5 | 2455.9 | 2448.9 | 2438.4 | 2427.9 | 2406.8 | 2382.1 | 2364.7 |
| 20° | 2442.0 | 2438.4 | 2434.9 | 2424.4 | 2410.3 | 2406.8 | 2396.2 | 2378.6 | 2361.1 | 2333.0 | 2308.3 |
| 22.5° | 2385.6 | 2382.1 | 2375.1 | 2368.1 | 2354.1 | 2347.1 | 2336.5 | 2315.4 | 2290.9 | 2262.7 | 2234.6 |
| 25° | 2315.4 | 2308.3 | 2297.8 | 2283.8 | 2273.3 | 2266.2 | 2252.2 | 2231.0 | 2203.0 | 2171.3 | 2143.2 |
| 27.5° | 2203.0 | 2213.6 | 2206.5 | 2185.4 | 2174.9 | 2160.8 | 2157.3 | 2129.2 | 2104.6 | 2072.9 | 2041.4 |
| 30° | 2094.0 | 2094.0 | 2083.5 | 2072.9 | 2055.4 | 2044.9 | 2030.8 | 2009.7 | 1985.2 | 1946.5 | 1921.8 |
| 32.5° | 1957.0 | 1953.5 | 1939.4 | 1935.9 | 1921.8 | 1900.8 | 1897.3 | 1869.2 | 1844.5 | 1816.5 | 1784.8 |
| 35° | 1806.0 | 1798.9 | 1784.8 | 1774.3 | 1767.2 | 1756.8 | 1746.2 | 1721.6 | 1697.0 | 1668.9 | 1647.8 |
| 37.5° | 1633.8 | 1633.8 | 1630.2 | 1612.8 | 1605.7 | 1598.7 | 1588.1 | 1563.5 | 1549.4 | 1521.4 | 1500.3 |
| 40° | 1468.6 | 1465.2 | 1454.6 | 1451.1 | 1444.1 | 1433.5 | 1426.5 | 1412.4 | 1391.3 | 1370.3 | 1349.2 |
| 42.5° | 1307.1 | 1310.6 | 1296.5 | 1300.0 | 1286.0 | 1278.9 | 1275.4 | 1254.3 | 1243.7 | 1222.7 | 1205.1 |
| 45° | 1163.0 | 1159.5 | 1152.5 | 1149.0 | 1141.9 | 1134.9 | 1127.8 | 1117.3 | 1099.7 | 1078.7 | 1068.1 |
| 47.5° | 1029.4 | 1018.9 | 1018.9 | 1015.3 | 1011.9 | 997.9 | 994.4 | 983.8 | 973.2 | 952.1 | 938.2 |
| 50° | 903.0 | 903.0 | 903.0 | 899.5 | 888.9 | 885.4 | 878.3 | 867.8 | 857.3 | 843.3 | 822.2 |
| 52.5° | 801.0 | 801.0 | 801.0 | 797.5 | 783.6 | 780.0 | 776.5 | 762.4 | 748.4 | 737.8 | 723.7 |
| 55° | 706.3 | 709.8 | 706.3 | 699.2 | 688.7 | 688.7 | 678.1 | 671.1 | 657.0 | 646.4 | 632.5 |
| 57.5° | 625.4 | 625.4 | 618.4 | 614.9 | 607.8 | 604.3 | 597.3 | 590.3 | 572.7 | 562.2 | 544.6 |
| 60° | 548.1 | 544.6 | 544.6 | 537.6 | 530.5 | 523.5 | 520.0 | 509.4 | 502.4 | 484.9 | 470.8 |
| 62.5° | 477.9 | 477.9 | 470.8 | 470.8 | 456.8 | 456.8 | 453.2 | 442.7 | 432.1 | 414.5 | 407.6 |
| 65° | 411.1 | 411.1 | 407.6 | 404.1 | 393.5 | 390.0 | 386.5 | 375.9 | 365.4 | 354.8 | 344.3 |
| 67.5° | 351.3 | 351.3 | 344.3 | 340.8 | 333.8 | 330.3 | 323.3 | 316.2 | 305.7 | 295.1 | 284.6 |
| 70° | 295.1 | 291.6 | 288.1 | 284.6 | 277.5 | 274.0 | 267.0 | 260.1 | 249.5 | 242.5 | 231.9 |
| 72.5° | 238.9 | 238.9 | 235.4 | 228.4 | 224.9 | 221.3 | 217.8 | 210.8 | 200.2 | 189.7 | 182.8 |
| 75° | 186.3 | 186.3 | 186.3 | 179.2 | 172.2 | 168.7 | 168.7 | 161.6 | 154.6 | 144.0 | 137.0 |
| 77.5° | 144.0 | 140.5 | 137.0 | 137.0 | 130.0 | 126.4 | 122.9 | 119.4 | 109.0 | 105.5 | 98.4 |
| 80° | 98.4 | 101.9 | 98.4 | 94.9 | 91.4 | 87.9 | 87.9 | 80.8 | 77.3 | 70.3 | 63.2 |
| 82.5° | 66.7 | 63.2 | 63.2 | 59.7 | 59.7 | 56.2 | 56.2 | 49.1 | 45.6 | 42.1 | 38.6 |
| 85° | 35.2 | 35.2 | 31.7 | 31.7 | 31.7 | 28.2 | 28.2 | 24.6 | 24.6 | 21.1 | 17.6 |
| 87.5° | 10.6 | 10.6 | 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° | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 |
| 2.5° | 2382.1 | 2375.1 | 2371.6 | 2371.6 | 2368.1 | 2364.7 | 2361.1 | 2357.6 | 2350.6 | 2350.6 | 2343.5 |
| 5° | 2399.7 | 2392.7 | 2389.2 | 2378.6 | 2371.6 | 2371.6 | 2357.6 | 2354.1 | 2343.5 | 2336.5 | 2329.5 |
| 7.5° | 2413.8 | 2399.7 | 2389.2 | 2378.6 | 2371.6 | 2364.7 | 2350.6 | 2336.5 | 2322.4 | 2308.3 | 2301.3 |
| 10° | 2413.8 | 2399.7 | 2382.1 | 2364.7 | 2357.6 | 2350.6 | 2333.0 | 2311.9 | 2294.3 | 2280.3 | 2262.7 |
| 12.5° | 2406.8 | 2385.6 | 2364.7 | 2350.6 | 2336.5 | 2325.9 | 2304.8 | 2283.8 | 2262.7 | 2234.6 | 2220.5 |
| 15° | 2385.6 | 2357.6 | 2336.5 | 2311.9 | 2301.3 | 2283.8 | 2266.2 | 2234.6 | 2210.0 | 2185.4 | 2167.8 |
| 17.5° | 2343.5 | 2308.3 | 2283.8 | 2259.2 | 2241.6 | 2231.0 | 2203.0 | 2174.9 | 2146.7 | 2118.7 | 2097.6 |
| 20° | 2280.3 | 2248.6 | 2220.5 | 2188.9 | 2174.9 | 2160.8 | 2125.7 | 2097.6 | 2069.4 | 2037.9 | 2016.7 |
| 22.5° | 2203.0 | 2171.3 | 2132.7 | 2108.1 | 2087.0 | 2069.4 | 2037.9 | 2006.2 | 1978.1 | 1950.0 | 1921.8 |
| 25° | 2108.1 | 2076.4 | 2041.4 | 2002.7 | 1988.7 | 1971.1 | 1935.9 | 1904.4 | 1872.7 | 1841.1 | 1816.5 |
| 27.5° | 2006.2 | 1964.1 | 1935.9 | 1893.8 | 1879.7 | 1862.1 | 1823.5 | 1788.4 | 1760.3 | 1735.7 | 1707.5 |
| 30° | 1883.3 | 1851.6 | 1813.0 | 1774.3 | 1760.3 | 1742.7 | 1711.1 | 1679.5 | 1651.3 | 1623.2 | 1595.2 |
| 32.5° | 1749.8 | 1718.1 | 1679.5 | 1651.3 | 1630.2 | 1616.2 | 1584.6 | 1556.5 | 1528.4 | 1500.3 | 1475.6 |
| 35° | 1609.2 | 1574.0 | 1545.9 | 1517.9 | 1500.3 | 1482.7 | 1451.1 | 1426.5 | 1405.4 | 1380.9 | 1356.2 |
| 37.5° | 1465.2 | 1440.6 | 1412.4 | 1380.9 | 1363.3 | 1349.2 | 1324.6 | 1296.5 | 1278.9 | 1257.8 | 1240.3 |
| 40° | 1324.6 | 1296.5 | 1271.9 | 1243.7 | 1229.8 | 1219.2 | 1194.6 | 1173.5 | 1156.0 | 1138.4 | 1127.8 |
| 42.5° | 1180.5 | 1156.0 | 1131.4 | 1113.8 | 1103.2 | 1092.6 | 1075.2 | 1050.5 | 1040.0 | 1022.4 | 1011.9 |
| 45° | 1047.0 | 1025.9 | 1008.4 | 983.8 | 976.8 | 969.7 | 948.6 | 931.1 | 920.6 | 910.0 | 903.0 |
| 47.5° | 920.6 | 906.5 | 885.4 | 871.3 | 860.9 | 853.8 | 839.8 | 825.7 | 815.1 | 808.1 | 801.0 |
| 50° | 811.6 | 794.0 | 780.0 | 766.0 | 758.9 | 748.4 | 734.3 | 727.3 | 720.2 | 713.3 | 713.3 |
| 52.5° | 709.8 | 692.2 | 678.1 | 667.6 | 660.5 | 653.5 | 642.9 | 639.4 | 632.5 | 632.5 | 629.0 |
| 55° | 614.9 | 604.3 | 590.3 | 576.2 | 572.7 | 569.1 | 562.2 | 555.2 | 551.7 | 548.1 | 551.7 |
| 57.5° | 534.1 | 523.5 | 509.4 | 498.9 | 495.4 | 491.8 | 488.4 | 481.4 | 477.9 | 477.9 | 477.9 |
| 60° | 460.3 | 449.7 | 439.2 | 428.6 | 428.6 | 421.6 | 418.1 | 414.5 | 411.1 | 407.6 | 407.6 |
| 62.5° | 393.5 | 383.0 | 372.4 | 365.4 | 361.9 | 358.4 | 351.3 | 347.8 | 344.3 | 344.3 | 340.8 |
| 65° | 333.8 | 319.8 | 316.2 | 305.7 | 302.2 | 298.6 | 295.1 | 288.1 | 284.6 | 281.1 | 277.5 |
| 67.5° | 274.0 | 267.0 | 256.5 | 249.5 | 246.0 | 242.5 | 238.9 | 231.9 | 228.4 | 224.9 | 217.8 |
| 70° | 221.3 | 214.3 | 207.3 | 200.2 | 196.7 | 193.2 | 186.3 | 179.2 | 175.7 | 168.7 | 158.1 |
| 72.5° | 172.2 | 165.2 | 158.1 | 151.1 | 147.6 | 144.0 | 137.0 | 130.0 | 122.9 | 115.9 | 109.0 |
| 75° | 130.0 | 122.9 | 112.5 | 105.5 | 101.9 | 101.9 | 91.4 | 84.3 | 77.3 | 66.7 | 59.7 |
| 77.5° | 91.4 | 80.8 | 77.3 | 70.3 | 66.7 | 59.7 | 52.7 | 45.6 | 38.6 | 35.2 | 28.2 |
| 80° | 59.7 | 52.7 | 45.6 | 42.1 | 38.6 | 35.2 | 31.7 | 24.6 | 17.6 | 14.1 | 10.6 |
| 82.5° | 35.2 | 31.7 | 28.2 | 24.6 | 21.1 | 17.6 | 14.1 | 14.1 | 10.6 | 7.0 | 3.5 |
| 85° | 17.6 | 14.1 | 10.6 | 10.6 | 7.0 | 7.0 | 7.0 | 3.5 | 3.5 | 3.5 | 3.5 |
| 87.5° | 7.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 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° | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 |
| 2.5° | 2340.0 | 2336.5 | 2333.0 | 2329.5 | 2329.5 | 2322.4 | 2322.4 | 2318.9 | 2311.9 | 2308.3 | 2308.3 |
| 5° | 2318.9 | 2308.3 | 2301.3 | 2297.8 | 2294.3 | 2283.8 | 2280.3 | 2273.3 | 2266.2 | 2259.2 | 2255.7 |
| 7.5° | 2287.4 | 2269.8 | 2262.7 | 2259.2 | 2248.6 | 2238.1 | 2231.0 | 2220.5 | 2210.0 | 2199.5 | 2196.0 |
| 10° | 2248.6 | 2231.0 | 2213.6 | 2206.5 | 2196.0 | 2188.9 | 2174.9 | 2160.8 | 2150.2 | 2139.8 | 2129.2 |
| 12.5° | 2199.5 | 2178.4 | 2160.8 | 2153.7 | 2143.2 | 2129.2 | 2108.1 | 2101.1 | 2083.5 | 2076.4 | 2062.5 |
| 15° | 2143.2 | 2118.7 | 2101.1 | 2090.5 | 2080.0 | 2059.0 | 2044.9 | 2030.8 | 2013.2 | 2006.2 | 1992.1 |
| 17.5° | 2072.9 | 2044.9 | 2027.3 | 2016.7 | 2009.7 | 1992.1 | 1971.1 | 1953.5 | 1935.9 | 1928.9 | 1918.3 |
| 20° | 1988.7 | 1971.1 | 1946.5 | 1935.9 | 1928.9 | 1907.9 | 1886.8 | 1879.7 | 1865.7 | 1851.6 | 1841.1 |
| 22.5° | 1893.8 | 1876.2 | 1851.6 | 1841.1 | 1837.6 | 1820.0 | 1802.4 | 1791.9 | 1781.3 | 1770.8 | 1760.3 |
| 25° | 1795.4 | 1774.3 | 1753.3 | 1746.2 | 1739.2 | 1725.1 | 1711.1 | 1704.0 | 1693.5 | 1686.5 | 1679.5 |
| 27.5° | 1690.1 | 1668.9 | 1651.3 | 1640.8 | 1633.8 | 1623.2 | 1616.2 | 1609.2 | 1602.2 | 1595.2 | 1591.6 |
| 30° | 1577.6 | 1556.5 | 1542.4 | 1535.5 | 1528.4 | 1524.9 | 1514.3 | 1510.8 | 1507.3 | 1500.3 | 1503.8 |
| 32.5° | 1465.2 | 1447.6 | 1433.5 | 1423.0 | 1423.0 | 1415.9 | 1412.4 | 1412.4 | 1408.9 | 1408.9 | 1408.9 |
| 35° | 1342.1 | 1331.6 | 1321.0 | 1317.5 | 1314.1 | 1310.6 | 1307.1 | 1310.6 | 1307.1 | 1310.6 | 1314.1 |
| 37.5° | 1229.8 | 1219.2 | 1212.2 | 1208.7 | 1205.1 | 1208.7 | 1205.1 | 1205.1 | 1208.7 | 1215.7 | 1219.2 |
| 40° | 1113.8 | 1106.7 | 1099.7 | 1103.2 | 1099.7 | 1099.7 | 1099.7 | 1110.2 | 1113.8 | 1117.3 | 1120.8 |
| 42.5° | 1004.9 | 997.9 | 994.4 | 994.4 | 997.9 | 994.4 | 1001.4 | 1004.9 | 1011.9 | 1022.4 | 1029.4 |
| 45° | 899.5 | 895.9 | 895.9 | 899.5 | 895.9 | 903.0 | 903.0 | 910.0 | 920.6 | 927.6 | 934.6 |
| 47.5° | 801.0 | 801.0 | 801.0 | 804.6 | 804.6 | 808.1 | 815.1 | 818.6 | 825.7 | 832.7 | 839.8 |
| 50° | 709.8 | 713.3 | 716.7 | 716.7 | 716.7 | 723.7 | 730.8 | 734.3 | 737.8 | 741.3 | 751.9 |
| 52.5° | 629.0 | 632.5 | 632.5 | 636.0 | 639.4 | 642.9 | 646.4 | 653.5 | 657.0 | 664.0 | 667.6 |
| 55° | 551.7 | 551.7 | 558.7 | 562.2 | 562.2 | 562.2 | 569.1 | 569.1 | 576.2 | 579.7 | 586.7 |
| 57.5° | 477.9 | 481.4 | 481.4 | 484.9 | 484.9 | 488.4 | 491.8 | 495.4 | 498.9 | 502.4 | 505.9 |
| 60° | 407.6 | 407.6 | 407.6 | 411.1 | 414.5 | 418.1 | 414.5 | 421.6 | 421.6 | 428.6 | 432.1 |
| 62.5° | 340.8 | 344.3 | 344.3 | 344.3 | 344.3 | 344.3 | 344.3 | 347.8 | 351.3 | 354.8 | 358.4 |
| 65° | 277.5 | 277.5 | 277.5 | 274.0 | 277.5 | 274.0 | 277.5 | 281.1 | 281.1 | 284.6 | 288.1 |
| 67.5° | 214.3 | 214.3 | 207.3 | 207.3 | 210.8 | 210.8 | 210.8 | 210.8 | 207.3 | 214.3 | 214.3 |
| 70° | 154.6 | 151.1 | 147.6 | 144.0 | 144.0 | 140.5 | 140.5 | 137.0 | 137.0 | 137.0 | 137.0 |
| 72.5° | 101.9 | 94.9 | 87.9 | 84.3 | 80.8 | 80.8 | 73.8 | 70.3 | 73.8 | 73.8 | 73.8 |
| 75° | 52.7 | 45.6 | 42.1 | 38.6 | 35.2 | 35.2 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 |
| 77.5° | 21.1 | 17.6 | 14.1 | 14.1 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 80° | 7.0 | 7.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 3.5 | 0.0 | 0.0 | 3.5 | 0.0 | 3.5 | 3.5 | 3.5 | 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: P593785

CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 | 2350.6 |
| 2.5° | 2304.8 | 2304.8 | 2301.3 | 2304.8 | 2297.8 | 2301.3 | 2297.8 | 2297.8 |
| 5° | 2252.2 | 2245.1 | 2245.1 | 2245.1 | 2241.6 | 2241.6 | 2238.1 | 2238.1 |
| 7.5° | 2188.9 | 2185.4 | 2181.9 | 2178.4 | 2174.9 | 2171.3 | 2171.3 | 2171.3 |
| 10° | 2125.7 | 2118.7 | 2118.7 | 2115.2 | 2108.1 | 2104.6 | 2104.6 | 2104.6 |
| 12.5° | 2051.9 | 2048.4 | 2044.9 | 2044.9 | 2030.8 | 2034.3 | 2030.8 | 2030.8 |
| 15° | 1981.7 | 1978.1 | 1978.1 | 1967.6 | 1960.6 | 1960.6 | 1960.6 | 1957.0 |
| 17.5° | 1907.9 | 1904.4 | 1900.8 | 1893.8 | 1886.8 | 1886.8 | 1883.3 | 1886.8 |
| 20° | 1830.6 | 1827.1 | 1820.0 | 1820.0 | 1816.5 | 1813.0 | 1806.0 | 1809.5 |
| 22.5° | 1753.3 | 1746.2 | 1742.7 | 1742.7 | 1739.2 | 1739.2 | 1732.2 | 1732.2 |
| 25° | 1672.5 | 1668.9 | 1665.4 | 1668.9 | 1661.9 | 1661.9 | 1654.9 | 1654.9 |
| 27.5° | 1588.1 | 1584.6 | 1584.6 | 1584.6 | 1581.1 | 1584.6 | 1581.1 | 1581.1 |
| 30° | 1503.8 | 1503.8 | 1500.3 | 1500.3 | 1503.8 | 1500.3 | 1503.8 | 1507.3 |
| 32.5° | 1412.4 | 1412.4 | 1415.9 | 1415.9 | 1419.4 | 1419.4 | 1419.4 | 1419.4 |
| 35° | 1317.5 | 1324.6 | 1324.6 | 1328.1 | 1331.6 | 1335.1 | 1335.1 | 1338.6 |
| 37.5° | 1229.8 | 1233.3 | 1236.8 | 1240.3 | 1247.3 | 1247.3 | 1247.3 | 1247.3 |
| 40° | 1134.9 | 1138.4 | 1145.4 | 1141.9 | 1156.0 | 1159.5 | 1156.0 | 1156.0 |
| 42.5° | 1036.5 | 1043.5 | 1047.0 | 1054.1 | 1057.6 | 1064.6 | 1068.1 | 1068.1 |
| 45° | 945.1 | 948.6 | 955.6 | 962.7 | 966.2 | 976.8 | 976.8 | 976.8 |
| 47.5° | 850.3 | 857.3 | 860.9 | 867.8 | 871.3 | 881.9 | 885.4 | 881.9 |
| 50° | 758.9 | 766.0 | 773.0 | 773.0 | 783.6 | 787.1 | 794.0 | 797.5 |
| 52.5° | 671.1 | 674.6 | 681.6 | 685.1 | 692.2 | 699.2 | 702.7 | 706.3 |
| 55° | 586.7 | 590.3 | 597.3 | 597.3 | 607.8 | 611.4 | 618.4 | 618.4 |
| 57.5° | 509.4 | 513.0 | 520.0 | 516.5 | 523.5 | 530.5 | 530.5 | 527.0 |
| 60° | 435.7 | 435.7 | 435.7 | 442.7 | 446.2 | 449.7 | 453.2 | 453.2 |
| 62.5° | 358.4 | 365.4 | 368.9 | 368.9 | 372.4 | 375.9 | 375.9 | 372.4 |
| 65° | 288.1 | 295.1 | 298.6 | 298.6 | 302.2 | 302.2 | 302.2 | 305.7 |
| 67.5° | 217.8 | 217.8 | 217.8 | 221.3 | 217.8 | 217.8 | 217.8 | 217.8 |
| 70° | 137.0 | 137.0 | 137.0 | 137.0 | 133.5 | 137.0 | 137.0 | 140.5 |
| 72.5° | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 |
| 75° | 31.7 | 31.7 | 31.7 | 35.2 | 31.7 | 31.7 | 31.7 | 31.7 |
| 77.5° | 14.1 | 10.6 | 14.1 | 14.1 | 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° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 0.0 | 3.5 | 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)