

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: P593753

Luminaire Tested: **HCC8W40D010MW-HM82555950-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593753
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: HCC8W40D010MW-HM82555950-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

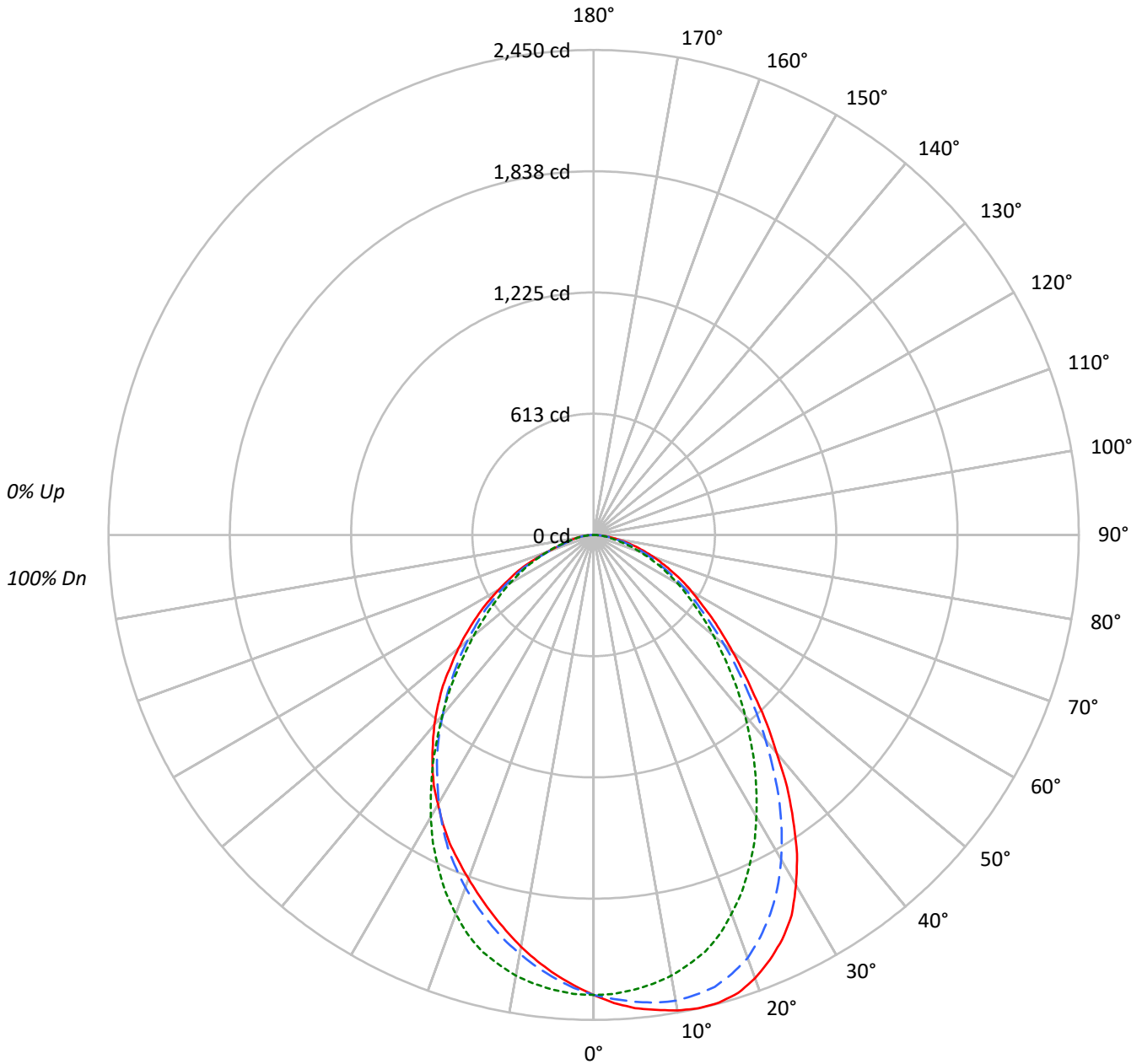
Lumens per Lamp: N/A
Luminaire Lumens: 4674.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P593753
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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 | 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° | 71667 | 71667 | 71667 |
| 5° | 74290 | 71427 | 68975 |
| 10° | 76386 | 70803 | 66153 |
| 15° | 78093 | 69556 | 63235 |
| 20° | 78215 | 66838 | 60666 |
| 25° | 76714 | 63122 | 58518 |
| 30° | 72762 | 58537 | 55952 |
| 35° | 66111 | 53312 | 53440 |
| 40° | 57805 | 47842 | 50366 |
| 45° | 50098 | 42610 | 46932 |
| 50° | 43866 | 37851 | 42758 |
| 55° | 39047 | 33542 | 38692 |
| 60° | 35221 | 30133 | 34000 |
| 65° | 31798 | 26494 | 29624 |
| 70° | 28571 | 22323 | 22026 |
| 75° | 25163 | 17693 | 16513 |
| 80° | 21114 | 14668 | 15822 |
| 85° | 16346 | 12843 | 14011 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.2 | 4.7 |
| 10°-20° | 617.5 | 13.2 |
| 20°-30° | 882.5 | 18.9 |
| 30°-40° | 937.7 | 20.1 |
| 40°-50° | 807.3 | 17.3 |
| 50°-60° | 603.6 | 12.9 |
| 60°-70° | 385.0 | 8.2 |
| 70°-80° | 175.2 | 3.7 |
| 80°-90° | 46.0 | 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° | 1719.3 | 36.8 |
| 0°-40° | 2657.0 | 56.8 |
| 0°-60° | 4068.0 | 87.0 |
| 0°-90° | 4674.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4674.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2324 | 2324 | 2324 | 2324 | 2324 | |
| 5° | 2400 | 2367 | 2308 | 2248 | 2228 | 230 |
| 15° | 2446 | 2364 | 2179 | 2030 | 1981 | 689 |
| 25° | 2255 | 2113 | 1855 | 1743 | 1720 | 1032 |
| 35° | 1756 | 1634 | 1416 | 1380 | 1420 | 1094 |
| 45° | 1149 | 1086 | 977 | 1004 | 1076 | 893 |
| 55° | 726 | 667 | 624 | 677 | 720 | 653 |
| 65° | 436 | 386 | 363 | 380 | 406 | 435 |
| 75° | 211 | 182 | 148 | 135 | 139 | 224 |
| 85° | 46 | 40 | 36 | 40 | 40 | 56 |
| 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° | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 |
| 2.5° | 2366.9 | 2360.4 | 2363.6 | 2360.4 | 2363.6 | 2363.6 | 2357.0 | 2357.0 | 2357.0 | 2357.0 | 2347.2 |
| 5° | 2400.0 | 2396.7 | 2396.7 | 2393.3 | 2390.0 | 2393.3 | 2390.0 | 2386.8 | 2380.1 | 2376.8 | 2366.9 |
| 7.5° | 2419.7 | 2419.7 | 2419.7 | 2419.7 | 2416.4 | 2413.2 | 2409.9 | 2403.2 | 2396.7 | 2390.0 | 2383.5 |
| 10° | 2439.5 | 2442.8 | 2439.5 | 2436.3 | 2433.0 | 2426.4 | 2423.1 | 2416.4 | 2406.5 | 2396.7 | 2390.0 |
| 12.5° | 2449.5 | 2449.5 | 2446.2 | 2446.2 | 2439.5 | 2436.3 | 2426.4 | 2416.4 | 2406.5 | 2396.7 | 2380.1 |
| 15° | 2446.2 | 2446.2 | 2442.8 | 2439.5 | 2429.6 | 2426.4 | 2419.7 | 2409.9 | 2393.3 | 2380.1 | 2363.6 |
| 17.5° | 2426.4 | 2423.1 | 2416.4 | 2416.4 | 2403.2 | 2400.0 | 2393.3 | 2380.1 | 2363.6 | 2343.8 | 2324.1 |
| 20° | 2383.5 | 2383.5 | 2380.1 | 2376.8 | 2363.6 | 2353.7 | 2347.2 | 2330.6 | 2317.4 | 2294.3 | 2274.4 |
| 22.5° | 2324.1 | 2330.6 | 2324.1 | 2317.4 | 2300.9 | 2297.7 | 2287.7 | 2267.9 | 2248.1 | 2221.7 | 2198.5 |
| 25° | 2254.7 | 2251.4 | 2248.1 | 2241.5 | 2228.3 | 2221.7 | 2208.5 | 2188.6 | 2168.9 | 2139.1 | 2112.7 |
| 27.5° | 2165.6 | 2152.4 | 2152.4 | 2139.1 | 2129.3 | 2119.4 | 2112.7 | 2093.0 | 2066.6 | 2043.5 | 2010.4 |
| 30° | 2043.5 | 2046.7 | 2030.3 | 2026.9 | 2010.4 | 2003.8 | 1990.6 | 1970.8 | 1947.7 | 1921.3 | 1894.8 |
| 32.5° | 1911.4 | 1901.5 | 1901.5 | 1888.3 | 1875.1 | 1865.2 | 1861.9 | 1838.8 | 1818.9 | 1792.5 | 1766.1 |
| 35° | 1756.2 | 1756.2 | 1746.3 | 1743.0 | 1729.8 | 1723.2 | 1713.4 | 1700.2 | 1676.9 | 1653.9 | 1634.1 |
| 37.5° | 1604.4 | 1597.8 | 1594.5 | 1587.8 | 1577.9 | 1568.1 | 1568.1 | 1545.0 | 1541.6 | 1515.2 | 1488.8 |
| 40° | 1436.0 | 1442.6 | 1436.0 | 1426.1 | 1422.8 | 1416.2 | 1412.9 | 1399.7 | 1389.8 | 1366.7 | 1350.2 |
| 42.5° | 1294.0 | 1287.5 | 1287.5 | 1284.1 | 1270.9 | 1270.9 | 1264.4 | 1257.7 | 1241.3 | 1234.6 | 1214.9 |
| 45° | 1148.8 | 1155.4 | 1145.5 | 1148.8 | 1135.6 | 1135.6 | 1135.6 | 1122.4 | 1109.2 | 1099.3 | 1086.1 |
| 47.5° | 1023.4 | 1026.6 | 1026.6 | 1016.7 | 1013.4 | 1013.4 | 1006.9 | 1000.2 | 990.3 | 977.1 | 967.2 |
| 50° | 914.4 | 917.7 | 911.1 | 907.9 | 901.2 | 898.0 | 898.0 | 884.8 | 878.1 | 864.9 | 858.3 |
| 52.5° | 815.4 | 815.4 | 812.1 | 812.1 | 802.2 | 802.2 | 795.6 | 785.6 | 779.1 | 772.4 | 756.0 |
| 55° | 726.3 | 726.3 | 722.9 | 719.7 | 719.7 | 709.7 | 706.5 | 696.5 | 690.0 | 676.8 | 666.9 |
| 57.5° | 640.5 | 643.7 | 640.5 | 637.1 | 633.8 | 630.6 | 623.9 | 614.0 | 607.4 | 597.5 | 591.0 |
| 60° | 571.1 | 571.1 | 567.7 | 564.5 | 557.9 | 554.5 | 551.3 | 544.7 | 534.8 | 528.2 | 518.2 |
| 62.5° | 505.0 | 501.8 | 498.5 | 495.2 | 488.6 | 488.6 | 482.0 | 475.4 | 465.4 | 458.9 | 452.2 |
| 65° | 435.8 | 435.8 | 432.4 | 432.4 | 429.1 | 422.6 | 419.2 | 415.9 | 402.7 | 399.5 | 386.3 |
| 67.5° | 373.1 | 376.3 | 369.7 | 369.7 | 363.1 | 363.1 | 359.9 | 350.0 | 346.6 | 340.0 | 333.4 |
| 70° | 316.9 | 316.9 | 316.9 | 313.6 | 307.0 | 303.7 | 300.4 | 293.8 | 290.5 | 283.9 | 277.3 |
| 72.5° | 260.8 | 260.8 | 257.5 | 257.5 | 254.2 | 250.9 | 247.6 | 241.0 | 241.0 | 234.4 | 227.8 |
| 75° | 211.2 | 211.2 | 208.0 | 204.7 | 201.3 | 201.3 | 198.0 | 194.8 | 188.1 | 184.8 | 181.6 |
| 77.5° | 161.7 | 161.7 | 161.7 | 158.5 | 155.2 | 155.2 | 155.2 | 148.5 | 142.0 | 142.0 | 138.6 |
| 80° | 118.9 | 118.9 | 115.5 | 115.5 | 112.2 | 112.2 | 112.2 | 108.9 | 105.7 | 102.3 | 99.0 |
| 82.5° | 79.3 | 79.3 | 79.3 | 79.3 | 75.9 | 75.9 | 75.9 | 72.6 | 69.4 | 69.4 | 69.4 |
| 85° | 46.2 | 46.2 | 46.2 | 46.2 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 39.6 | 39.6 |
| 87.5° | 19.8 | 16.5 | 19.8 | 16.5 | 19.8 | 16.5 | 19.8 | 16.5 | 16.5 | 16.5 | 16.5 |
| 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° | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 |
| 2.5° | 2350.4 | 2347.2 | 2343.8 | 2340.5 | 2340.5 | 2337.3 | 2330.6 | 2327.3 | 2324.1 | 2320.7 | 2320.7 |
| 5° | 2363.6 | 2360.4 | 2353.7 | 2347.2 | 2343.8 | 2337.3 | 2330.6 | 2324.1 | 2317.4 | 2307.5 | 2304.2 |
| 7.5° | 2373.6 | 2363.6 | 2357.0 | 2343.8 | 2340.5 | 2333.9 | 2324.1 | 2314.1 | 2300.9 | 2287.7 | 2277.8 |
| 10° | 2373.6 | 2360.4 | 2350.4 | 2333.9 | 2327.3 | 2320.7 | 2307.5 | 2291.0 | 2274.4 | 2261.2 | 2244.8 |
| 12.5° | 2366.9 | 2350.4 | 2333.9 | 2317.4 | 2307.5 | 2297.7 | 2277.8 | 2261.2 | 2241.5 | 2221.7 | 2208.5 |
| 15° | 2343.8 | 2324.1 | 2304.2 | 2284.4 | 2274.4 | 2261.2 | 2241.5 | 2218.4 | 2198.5 | 2178.8 | 2155.7 |
| 17.5° | 2300.9 | 2281.1 | 2258.0 | 2234.9 | 2221.7 | 2211.7 | 2182.1 | 2165.6 | 2135.8 | 2116.1 | 2096.2 |
| 20° | 2244.8 | 2221.7 | 2192.0 | 2168.9 | 2152.4 | 2142.5 | 2119.4 | 2089.6 | 2066.6 | 2036.8 | 2017.0 |
| 22.5° | 2172.1 | 2142.5 | 2112.7 | 2089.6 | 2073.1 | 2059.9 | 2030.3 | 2000.5 | 1980.8 | 1954.3 | 1931.1 |
| 25° | 2086.3 | 2056.7 | 2026.9 | 1993.8 | 1977.4 | 1964.2 | 1937.8 | 1911.4 | 1885.0 | 1855.2 | 1835.5 |
| 27.5° | 1984.0 | 1951.0 | 1924.6 | 1894.8 | 1878.4 | 1858.5 | 1828.8 | 1802.5 | 1776.1 | 1756.2 | 1729.8 |
| 30° | 1871.8 | 1835.5 | 1809.0 | 1779.3 | 1762.9 | 1746.3 | 1716.6 | 1690.2 | 1667.1 | 1644.0 | 1630.8 |
| 32.5° | 1736.4 | 1710.0 | 1683.6 | 1653.9 | 1640.7 | 1630.8 | 1601.0 | 1574.6 | 1548.2 | 1528.4 | 1518.6 |
| 35° | 1607.7 | 1577.9 | 1554.9 | 1528.4 | 1511.9 | 1502.0 | 1475.6 | 1452.5 | 1439.3 | 1416.2 | 1403.0 |
| 37.5° | 1472.3 | 1449.2 | 1422.8 | 1396.3 | 1386.5 | 1376.6 | 1356.7 | 1333.6 | 1313.9 | 1297.3 | 1290.8 |
| 40° | 1330.4 | 1310.5 | 1287.5 | 1270.9 | 1261.0 | 1251.2 | 1234.6 | 1218.1 | 1204.9 | 1188.5 | 1181.8 |
| 42.5° | 1195.0 | 1181.8 | 1162.0 | 1142.2 | 1132.3 | 1129.0 | 1109.2 | 1096.0 | 1089.3 | 1082.8 | 1076.2 |
| 45° | 1072.9 | 1053.0 | 1039.8 | 1026.6 | 1016.7 | 1010.2 | 1000.2 | 990.3 | 983.8 | 977.1 | 970.6 |
| 47.5° | 954.0 | 937.5 | 924.3 | 914.4 | 904.5 | 901.2 | 894.6 | 884.8 | 878.1 | 878.1 | 878.1 |
| 50° | 845.1 | 831.9 | 818.7 | 812.1 | 808.8 | 802.2 | 795.6 | 792.3 | 789.0 | 789.0 | 789.0 |
| 52.5° | 749.3 | 736.1 | 726.3 | 719.7 | 719.7 | 713.0 | 706.5 | 703.2 | 703.2 | 703.2 | 703.2 |
| 55° | 660.2 | 650.3 | 643.7 | 637.1 | 630.6 | 627.2 | 627.2 | 627.2 | 623.9 | 623.9 | 627.2 |
| 57.5° | 581.0 | 574.4 | 564.5 | 557.9 | 554.5 | 554.5 | 551.3 | 548.0 | 551.3 | 554.5 | 557.9 |
| 60° | 508.4 | 501.8 | 498.5 | 488.6 | 488.6 | 488.6 | 485.3 | 485.3 | 485.3 | 488.6 | 491.8 |
| 62.5° | 442.3 | 439.1 | 432.4 | 429.1 | 425.9 | 425.9 | 422.6 | 422.6 | 422.6 | 422.6 | 425.9 |
| 65° | 382.9 | 376.3 | 369.7 | 369.7 | 369.7 | 366.4 | 366.4 | 359.9 | 363.1 | 363.1 | 359.9 |
| 67.5° | 326.8 | 320.2 | 316.9 | 313.6 | 310.4 | 310.4 | 307.0 | 303.7 | 300.4 | 300.4 | 300.4 |
| 70° | 273.9 | 267.4 | 267.4 | 260.8 | 260.8 | 257.5 | 254.2 | 254.2 | 250.9 | 247.6 | 244.3 |
| 72.5° | 221.2 | 217.9 | 214.6 | 211.2 | 211.2 | 211.2 | 208.0 | 204.7 | 201.3 | 198.0 | 191.5 |
| 75° | 174.9 | 174.9 | 168.4 | 165.1 | 165.1 | 161.7 | 158.5 | 155.2 | 151.8 | 148.5 | 145.3 |
| 77.5° | 135.3 | 132.1 | 125.4 | 122.1 | 122.1 | 122.1 | 118.9 | 115.5 | 112.2 | 108.9 | 105.7 |
| 80° | 99.0 | 95.7 | 92.5 | 89.1 | 89.1 | 89.1 | 85.8 | 85.8 | 82.6 | 82.6 | 82.6 |
| 82.5° | 66.0 | 66.0 | 62.7 | 62.7 | 62.7 | 62.7 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 |
| 85° | 39.6 | 39.6 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 |
| 87.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 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° | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 |
| 2.5° | 2314.1 | 2314.1 | 2307.5 | 2304.2 | 2300.9 | 2304.2 | 2297.7 | 2294.3 | 2291.0 | 2291.0 | 2287.7 |
| 5° | 2294.3 | 2291.0 | 2277.8 | 2274.4 | 2271.2 | 2267.9 | 2261.2 | 2254.7 | 2248.1 | 2244.8 | 2241.5 |
| 7.5° | 2267.9 | 2258.0 | 2244.8 | 2241.5 | 2238.2 | 2228.3 | 2218.4 | 2211.7 | 2201.9 | 2198.5 | 2192.0 |
| 10° | 2231.6 | 2218.4 | 2208.5 | 2198.5 | 2192.0 | 2182.1 | 2172.1 | 2162.2 | 2149.0 | 2145.8 | 2135.8 |
| 12.5° | 2188.6 | 2172.1 | 2152.4 | 2149.0 | 2139.1 | 2125.9 | 2112.7 | 2102.8 | 2093.0 | 2086.3 | 2076.4 |
| 15° | 2135.8 | 2119.4 | 2099.5 | 2089.6 | 2079.8 | 2069.9 | 2053.3 | 2040.1 | 2030.3 | 2020.3 | 2010.4 |
| 17.5° | 2073.1 | 2053.3 | 2036.8 | 2026.9 | 2020.3 | 2003.8 | 1990.6 | 1974.1 | 1964.2 | 1954.3 | 1944.3 |
| 20° | 1997.2 | 1980.8 | 1957.6 | 1947.7 | 1944.3 | 1931.1 | 1914.7 | 1908.0 | 1894.8 | 1885.0 | 1878.4 |
| 22.5° | 1911.4 | 1894.8 | 1875.1 | 1868.4 | 1855.2 | 1848.7 | 1832.1 | 1825.6 | 1818.9 | 1809.0 | 1805.7 |
| 25° | 1815.6 | 1799.2 | 1782.6 | 1779.3 | 1769.4 | 1762.9 | 1752.9 | 1743.0 | 1743.0 | 1733.1 | 1733.1 |
| 27.5° | 1716.6 | 1700.2 | 1686.9 | 1680.3 | 1676.9 | 1670.4 | 1660.5 | 1657.2 | 1653.9 | 1650.5 | 1650.5 |
| 30° | 1611.0 | 1591.1 | 1584.6 | 1581.3 | 1577.9 | 1571.4 | 1568.1 | 1561.4 | 1564.7 | 1568.1 | 1564.7 |
| 32.5° | 1498.7 | 1492.1 | 1478.9 | 1472.3 | 1475.6 | 1472.3 | 1465.7 | 1472.3 | 1469.1 | 1475.6 | 1478.9 |
| 35° | 1389.8 | 1383.1 | 1376.6 | 1376.6 | 1369.9 | 1369.9 | 1369.9 | 1373.3 | 1379.9 | 1383.1 | 1389.8 |
| 37.5° | 1284.1 | 1274.3 | 1270.9 | 1267.6 | 1270.9 | 1270.9 | 1270.9 | 1277.6 | 1284.1 | 1290.8 | 1300.7 |
| 40° | 1171.9 | 1165.4 | 1165.4 | 1165.4 | 1165.4 | 1175.2 | 1171.9 | 1178.5 | 1185.1 | 1195.0 | 1204.9 |
| 42.5° | 1066.2 | 1066.2 | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1076.2 | 1086.1 | 1096.0 | 1105.9 | 1115.7 |
| 45° | 967.2 | 967.2 | 967.2 | 973.9 | 973.9 | 977.1 | 990.3 | 997.0 | 1003.5 | 1013.4 | 1023.4 |
| 47.5° | 874.8 | 874.8 | 878.1 | 881.4 | 884.8 | 891.3 | 898.0 | 907.9 | 917.7 | 924.3 | 934.3 |
| 50° | 789.0 | 792.3 | 798.8 | 805.5 | 805.5 | 808.8 | 818.7 | 825.3 | 831.9 | 841.8 | 845.1 |
| 52.5° | 706.5 | 713.0 | 719.7 | 722.9 | 726.3 | 732.8 | 736.1 | 746.0 | 749.3 | 759.2 | 762.6 |
| 55° | 630.6 | 633.8 | 643.7 | 647.0 | 647.0 | 653.7 | 660.2 | 666.9 | 676.8 | 676.8 | 683.3 |
| 57.5° | 561.2 | 564.5 | 571.1 | 574.4 | 571.1 | 581.0 | 584.3 | 591.0 | 594.2 | 600.8 | 604.2 |
| 60° | 491.8 | 498.5 | 501.8 | 501.8 | 505.0 | 508.4 | 515.0 | 515.0 | 521.6 | 528.2 | 528.2 |
| 62.5° | 425.9 | 429.1 | 432.4 | 435.8 | 439.1 | 435.8 | 445.7 | 445.7 | 452.2 | 455.5 | 462.2 |
| 65° | 363.1 | 366.4 | 366.4 | 369.7 | 369.7 | 373.1 | 373.1 | 376.3 | 379.6 | 386.3 | 389.5 |
| 67.5° | 300.4 | 300.4 | 300.4 | 303.7 | 300.4 | 303.7 | 303.7 | 307.0 | 307.0 | 313.6 | 316.9 |
| 70° | 244.3 | 241.0 | 237.6 | 237.6 | 237.6 | 237.6 | 234.4 | 237.6 | 237.6 | 241.0 | 241.0 |
| 72.5° | 188.1 | 184.8 | 181.6 | 178.3 | 178.3 | 174.9 | 171.7 | 174.9 | 174.9 | 178.3 | 178.3 |
| 75° | 142.0 | 135.3 | 135.3 | 135.3 | 132.1 | 132.1 | 132.1 | 135.3 | 135.3 | 135.3 | 138.6 |
| 77.5° | 105.7 | 105.7 | 102.3 | 102.3 | 102.3 | 105.7 | 105.7 | 108.9 | 108.9 | 108.9 | 108.9 |
| 80° | 79.3 | 82.6 | 82.6 | 82.6 | 82.6 | 85.8 | 85.8 | 85.8 | 85.8 | 89.1 | 89.1 |
| 82.5° | 59.4 | 59.4 | 59.4 | 59.4 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 |
| 85° | 36.3 | 39.6 | 39.6 | 36.3 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 |
| 87.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 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: P593753

CATALOG NUMBER: HCC8W40D010MW-HM82555950-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 | 2324.1 |
| 2.5° | 2284.4 | 2284.4 | 2284.4 | 2284.4 | 2281.1 | 2281.1 | 2281.1 | 2277.8 |
| 5° | 2234.9 | 2234.9 | 2234.9 | 2228.3 | 2231.6 | 2231.6 | 2224.9 | 2228.3 |
| 7.5° | 2185.3 | 2182.1 | 2178.8 | 2178.8 | 2175.4 | 2172.1 | 2168.9 | 2172.1 |
| 10° | 2129.3 | 2119.4 | 2119.4 | 2116.1 | 2116.1 | 2109.4 | 2109.4 | 2112.7 |
| 12.5° | 2066.6 | 2059.9 | 2059.9 | 2056.7 | 2053.3 | 2050.0 | 2046.7 | 2046.7 |
| 15° | 2003.8 | 1997.2 | 1993.8 | 1990.6 | 1987.3 | 1980.8 | 1984.0 | 1980.8 |
| 17.5° | 1941.1 | 1931.1 | 1931.1 | 1927.9 | 1924.6 | 1917.9 | 1917.9 | 1914.7 |
| 20° | 1868.4 | 1865.2 | 1858.5 | 1861.9 | 1858.5 | 1852.0 | 1848.7 | 1848.7 |
| 22.5° | 1795.8 | 1795.8 | 1792.5 | 1792.5 | 1789.3 | 1786.0 | 1782.6 | 1782.6 |
| 25° | 1726.5 | 1723.2 | 1726.5 | 1726.5 | 1716.6 | 1716.6 | 1716.6 | 1719.9 |
| 27.5° | 1647.3 | 1650.5 | 1647.3 | 1647.3 | 1647.3 | 1647.3 | 1650.5 | 1647.3 |
| 30° | 1568.1 | 1568.1 | 1568.1 | 1571.4 | 1577.9 | 1574.6 | 1574.6 | 1571.4 |
| 32.5° | 1482.3 | 1485.5 | 1485.5 | 1488.8 | 1492.1 | 1498.7 | 1498.7 | 1502.0 |
| 35° | 1396.3 | 1403.0 | 1406.3 | 1403.0 | 1412.9 | 1412.9 | 1419.6 | 1419.6 |
| 37.5° | 1307.2 | 1310.5 | 1317.2 | 1320.4 | 1327.1 | 1330.4 | 1333.6 | 1333.6 |
| 40° | 1211.5 | 1224.7 | 1228.1 | 1231.3 | 1241.3 | 1241.3 | 1244.5 | 1251.2 |
| 42.5° | 1122.4 | 1135.6 | 1138.9 | 1142.2 | 1148.8 | 1158.7 | 1155.4 | 1162.0 |
| 45° | 1036.6 | 1046.5 | 1049.8 | 1053.0 | 1063.0 | 1066.2 | 1066.2 | 1076.2 |
| 47.5° | 944.1 | 950.7 | 954.0 | 960.7 | 967.2 | 973.9 | 980.4 | 977.1 |
| 50° | 851.7 | 861.6 | 868.2 | 871.6 | 881.4 | 884.8 | 888.0 | 891.3 |
| 52.5° | 769.2 | 775.8 | 779.1 | 782.4 | 792.3 | 795.6 | 798.8 | 805.5 |
| 55° | 690.0 | 693.3 | 699.8 | 696.5 | 706.5 | 709.7 | 713.0 | 719.7 |
| 57.5° | 610.7 | 614.0 | 617.4 | 617.4 | 623.9 | 630.6 | 633.8 | 637.1 |
| 60° | 534.8 | 541.4 | 544.7 | 544.7 | 544.7 | 551.3 | 551.3 | 551.3 |
| 62.5° | 465.4 | 465.4 | 468.7 | 468.7 | 475.4 | 475.4 | 475.4 | 475.4 |
| 65° | 392.8 | 396.2 | 399.5 | 399.5 | 406.0 | 402.7 | 409.4 | 406.0 |
| 67.5° | 316.9 | 316.9 | 323.6 | 323.6 | 320.2 | 323.6 | 323.6 | 323.6 |
| 70° | 241.0 | 241.0 | 244.3 | 244.3 | 244.3 | 244.3 | 244.3 | 244.3 |
| 72.5° | 178.3 | 178.3 | 178.3 | 181.6 | 178.3 | 178.3 | 181.6 | 178.3 |
| 75° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 77.5° | 108.9 | 108.9 | 112.2 | 112.2 | 112.2 | 112.2 | 112.2 | 112.2 |
| 80° | 89.1 | 89.1 | 89.1 | 89.1 | 92.5 | 89.1 | 89.1 | 89.1 |
| 82.5° | 66.0 | 62.7 | 66.0 | 62.7 | 66.0 | 66.0 | 66.0 | 66.0 |
| 85° | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 |
| 87.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 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)