

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: P584667

Luminaire Tested: **HCC8W45D010MW-HM82555830-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584667
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: HCC8W45D010MW-HM82555830-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

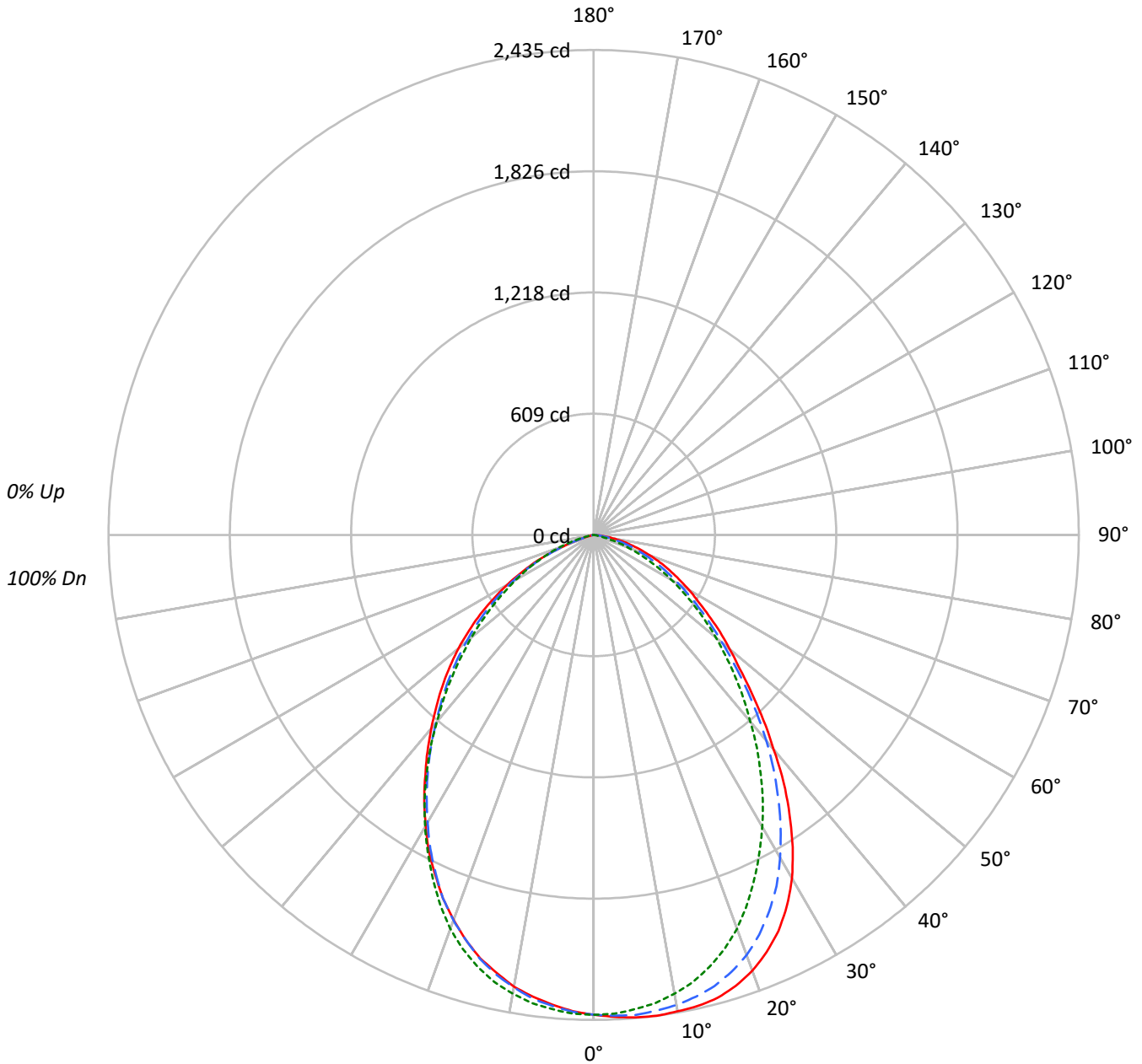
Lumens per Lamp: N/A
Luminaire Lumens: 4579.4 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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: P584667
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Luminous Intensity Polar Plot





TEST NUMBER: P584667

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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 | 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° | 74300 | 74300 | 74300 |
| 5° | 75280 | 73986 | 73290 |
| 10° | 76051 | 73229 | 72121 |
| 15° | 76819 | 71686 | 70246 |
| 20° | 76430 | 69040 | 67458 |
| 25° | 74649 | 64904 | 64033 |
| 30° | 70904 | 60254 | 60022 |
| 35° | 64548 | 54979 | 55465 |
| 40° | 56589 | 49210 | 51018 |
| 45° | 48820 | 43770 | 46858 |
| 50° | 42749 | 38426 | 42442 |
| 55° | 37875 | 33031 | 37359 |
| 60° | 34123 | 27777 | 30947 |
| 65° | 30755 | 22298 | 23706 |
| 70° | 26976 | 16247 | 13046 |
| 75° | 23006 | 8423 | 3455 |
| 80° | 17705 | 2291 | 568 |
| 85° | 11357 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 227.3 | 5.0 |
| 10°-20° | 639.1 | 14.0 |
| 20°-30° | 907.1 | 19.8 |
| 30°-40° | 954.8 | 20.9 |
| 40°-50° | 812.3 | 17.7 |
| 50°-60° | 587.0 | 12.8 |
| 60°-70° | 333.9 | 7.3 |
| 70°-80° | 105.2 | 2.3 |
| 80°-90° | 12.8 | 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° | 1773.5 | 38.7 |
| 0°-40° | 2728.3 | 59.6 |
| 0°-60° | 4127.6 | 90.1 |
| 0°-90° | 4579.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4579.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2410 | 2410 | 2410 | 2410 | 2410 | |
| 5° | 2432 | 2419 | 2390 | 2374 | 2368 | 232 |
| 15° | 2406 | 2345 | 2246 | 2204 | 2200 | 678 |
| 25° | 2194 | 2084 | 1908 | 1876 | 1882 | 1005 |
| 35° | 1715 | 1615 | 1460 | 1451 | 1473 | 1067 |
| 45° | 1120 | 1078 | 1004 | 1029 | 1074 | 870 |
| 55° | 704 | 653 | 614 | 650 | 695 | 635 |
| 65° | 422 | 364 | 306 | 302 | 325 | 418 |
| 75° | 193 | 148 | 71 | 32 | 29 | 208 |
| 85° | 32 | 19 | 0 | 0 | 0 | 42 |
| 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° | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 |
| 2.5° | 2422.4 | 2425.6 | 2419.2 | 2419.2 | 2425.6 | 2419.2 | 2422.4 | 2422.4 | 2419.2 | 2419.2 | 2415.9 |
| 5° | 2432.0 | 2428.8 | 2428.8 | 2428.8 | 2432.0 | 2425.6 | 2422.4 | 2425.6 | 2419.2 | 2419.2 | 2419.2 |
| 7.5° | 2435.3 | 2435.3 | 2432.0 | 2428.8 | 2428.8 | 2428.8 | 2425.6 | 2422.4 | 2419.2 | 2412.7 | 2409.5 |
| 10° | 2428.8 | 2428.8 | 2432.0 | 2425.6 | 2425.6 | 2419.2 | 2419.2 | 2412.7 | 2412.7 | 2406.3 | 2396.7 |
| 12.5° | 2422.4 | 2419.2 | 2419.2 | 2412.7 | 2412.7 | 2406.3 | 2406.3 | 2396.7 | 2393.4 | 2383.8 | 2374.2 |
| 15° | 2406.3 | 2403.1 | 2396.7 | 2393.4 | 2390.2 | 2386.9 | 2380.6 | 2377.3 | 2367.7 | 2354.8 | 2345.2 |
| 17.5° | 2374.2 | 2370.9 | 2367.7 | 2361.2 | 2354.8 | 2351.6 | 2348.3 | 2338.7 | 2325.8 | 2316.2 | 2300.1 |
| 20° | 2329.1 | 2325.8 | 2325.8 | 2316.2 | 2313.0 | 2303.3 | 2300.1 | 2287.2 | 2277.6 | 2258.3 | 2245.5 |
| 22.5° | 2268.0 | 2271.2 | 2264.7 | 2258.3 | 2251.9 | 2242.2 | 2235.7 | 2223.0 | 2206.9 | 2187.5 | 2171.5 |
| 25° | 2194.0 | 2197.1 | 2190.7 | 2184.4 | 2174.6 | 2168.2 | 2161.8 | 2142.5 | 2126.4 | 2103.9 | 2084.5 |
| 27.5° | 2100.7 | 2100.7 | 2100.7 | 2094.3 | 2078.2 | 2074.9 | 2068.5 | 2049.2 | 2026.7 | 2007.4 | 1988.1 |
| 30° | 1991.3 | 1988.1 | 1988.1 | 1978.4 | 1972.0 | 1959.1 | 1949.5 | 1933.3 | 1917.3 | 1894.7 | 1872.2 |
| 32.5° | 1859.4 | 1862.6 | 1853.0 | 1846.5 | 1836.9 | 1836.9 | 1824.0 | 1811.1 | 1791.9 | 1769.4 | 1746.8 |
| 35° | 1714.7 | 1717.9 | 1711.4 | 1708.2 | 1692.2 | 1688.9 | 1685.7 | 1669.6 | 1656.7 | 1640.7 | 1614.9 |
| 37.5° | 1566.7 | 1563.5 | 1560.2 | 1560.2 | 1550.6 | 1544.1 | 1537.7 | 1528.1 | 1508.7 | 1495.9 | 1483.0 |
| 40° | 1405.8 | 1405.8 | 1405.8 | 1402.6 | 1399.4 | 1392.9 | 1389.8 | 1383.3 | 1370.4 | 1357.5 | 1347.9 |
| 42.5° | 1261.1 | 1261.1 | 1257.8 | 1254.6 | 1248.2 | 1251.4 | 1245.0 | 1238.6 | 1225.7 | 1216.0 | 1209.6 |
| 45° | 1119.5 | 1119.5 | 1119.5 | 1122.7 | 1116.2 | 1106.6 | 1106.6 | 1100.2 | 1093.8 | 1087.4 | 1077.6 |
| 47.5° | 994.0 | 1003.7 | 997.3 | 994.0 | 997.3 | 984.4 | 984.4 | 977.9 | 971.5 | 965.1 | 952.2 |
| 50° | 891.1 | 891.1 | 891.1 | 884.7 | 881.4 | 881.4 | 871.8 | 865.3 | 862.2 | 855.7 | 842.8 |
| 52.5° | 797.8 | 791.4 | 791.4 | 788.1 | 785.0 | 778.5 | 778.5 | 772.1 | 759.2 | 752.7 | 743.1 |
| 55° | 704.5 | 704.5 | 701.3 | 698.1 | 694.9 | 691.6 | 688.4 | 678.8 | 672.4 | 662.7 | 653.0 |
| 57.5° | 620.9 | 627.3 | 624.0 | 617.7 | 611.3 | 611.3 | 604.8 | 598.3 | 588.7 | 579.1 | 569.4 |
| 60° | 553.3 | 550.1 | 550.1 | 546.9 | 540.4 | 537.2 | 534.1 | 524.3 | 514.7 | 505.1 | 495.4 |
| 62.5° | 482.6 | 482.6 | 482.6 | 476.1 | 469.7 | 466.5 | 463.2 | 456.8 | 444.0 | 434.2 | 427.9 |
| 65° | 421.5 | 418.2 | 415.0 | 411.7 | 408.6 | 402.1 | 398.9 | 392.5 | 382.9 | 373.1 | 363.5 |
| 67.5° | 360.3 | 357.1 | 357.1 | 353.9 | 344.2 | 341.0 | 341.0 | 331.4 | 321.8 | 312.0 | 302.4 |
| 70° | 299.2 | 299.2 | 299.2 | 292.8 | 289.5 | 286.3 | 283.0 | 276.7 | 267.0 | 257.4 | 247.7 |
| 72.5° | 247.7 | 244.5 | 244.5 | 241.3 | 231.7 | 228.4 | 225.2 | 218.8 | 209.1 | 202.7 | 196.2 |
| 75° | 193.1 | 193.1 | 189.8 | 186.6 | 183.3 | 180.2 | 176.9 | 170.6 | 160.8 | 151.2 | 148.0 |
| 77.5° | 148.0 | 144.7 | 144.7 | 141.6 | 135.1 | 131.8 | 131.8 | 125.5 | 115.8 | 109.3 | 103.0 |
| 80° | 99.7 | 103.0 | 99.7 | 96.5 | 93.3 | 90.1 | 86.8 | 83.6 | 77.2 | 70.7 | 64.4 |
| 82.5° | 61.1 | 64.4 | 61.1 | 61.1 | 57.9 | 54.7 | 54.7 | 48.2 | 45.0 | 41.9 | 38.6 |
| 85° | 32.1 | 32.1 | 32.1 | 32.1 | 29.0 | 29.0 | 29.0 | 25.7 | 22.5 | 19.4 | 19.4 |
| 87.5° | 9.6 | 12.9 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 6.5 | 6.5 | 6.5 |
| 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° | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 |
| 2.5° | 2419.2 | 2415.9 | 2412.7 | 2412.7 | 2412.7 | 2412.7 | 2412.7 | 2409.5 | 2406.3 | 2406.3 | 2406.3 |
| 5° | 2412.7 | 2412.7 | 2412.7 | 2409.5 | 2406.3 | 2406.3 | 2399.8 | 2396.7 | 2393.4 | 2390.2 | 2386.9 |
| 7.5° | 2406.3 | 2399.8 | 2396.7 | 2393.4 | 2390.2 | 2390.2 | 2383.8 | 2377.3 | 2377.3 | 2370.9 | 2364.4 |
| 10° | 2386.9 | 2383.8 | 2377.3 | 2370.9 | 2367.7 | 2364.4 | 2358.1 | 2348.3 | 2345.2 | 2338.7 | 2332.3 |
| 12.5° | 2364.4 | 2358.1 | 2351.6 | 2338.7 | 2335.6 | 2332.3 | 2319.4 | 2309.8 | 2303.3 | 2300.1 | 2284.1 |
| 15° | 2335.6 | 2322.7 | 2313.0 | 2296.9 | 2293.7 | 2287.2 | 2277.6 | 2268.0 | 2255.1 | 2245.5 | 2239.0 |
| 17.5° | 2284.1 | 2271.2 | 2255.1 | 2239.0 | 2232.6 | 2232.6 | 2216.5 | 2203.6 | 2187.5 | 2181.1 | 2168.2 |
| 20° | 2223.0 | 2206.9 | 2194.0 | 2174.6 | 2165.0 | 2155.4 | 2145.8 | 2126.4 | 2113.5 | 2103.9 | 2087.8 |
| 22.5° | 2152.1 | 2129.6 | 2113.5 | 2094.3 | 2078.2 | 2068.5 | 2052.4 | 2036.3 | 2020.3 | 2010.6 | 1997.7 |
| 25° | 2062.0 | 2042.8 | 2017.1 | 1997.7 | 1988.1 | 1975.2 | 1955.9 | 1939.8 | 1923.7 | 1907.6 | 1901.2 |
| 27.5° | 1962.3 | 1936.6 | 1914.1 | 1891.6 | 1882.0 | 1872.2 | 1849.7 | 1830.5 | 1817.6 | 1801.5 | 1795.0 |
| 30° | 1853.0 | 1827.2 | 1801.5 | 1782.1 | 1772.5 | 1756.5 | 1743.5 | 1721.0 | 1705.0 | 1692.2 | 1676.0 |
| 32.5° | 1727.5 | 1708.2 | 1685.7 | 1656.7 | 1650.3 | 1637.4 | 1618.2 | 1608.5 | 1589.2 | 1579.6 | 1566.7 |
| 35° | 1592.3 | 1579.6 | 1557.0 | 1534.5 | 1524.8 | 1518.4 | 1502.4 | 1483.0 | 1470.1 | 1460.5 | 1454.1 |
| 37.5° | 1463.7 | 1447.6 | 1425.1 | 1409.0 | 1402.6 | 1392.9 | 1373.7 | 1364.0 | 1351.2 | 1344.7 | 1331.8 |
| 40° | 1325.4 | 1309.3 | 1293.2 | 1283.6 | 1273.9 | 1267.4 | 1254.6 | 1245.0 | 1232.1 | 1222.5 | 1219.2 |
| 42.5° | 1190.2 | 1180.6 | 1167.7 | 1154.9 | 1151.7 | 1142.0 | 1135.6 | 1126.0 | 1116.2 | 1113.1 | 1103.4 |
| 45° | 1068.0 | 1058.4 | 1045.5 | 1032.6 | 1029.4 | 1023.0 | 1019.8 | 1010.1 | 1003.7 | 1003.7 | 1003.7 |
| 47.5° | 945.8 | 936.2 | 923.3 | 916.8 | 920.1 | 907.2 | 907.2 | 903.9 | 897.6 | 897.6 | 900.7 |
| 50° | 836.5 | 823.6 | 820.3 | 813.9 | 807.5 | 801.0 | 804.2 | 794.6 | 794.6 | 801.0 | 797.8 |
| 52.5° | 733.5 | 720.6 | 717.4 | 711.0 | 707.8 | 707.8 | 704.5 | 704.5 | 701.3 | 704.5 | 704.5 |
| 55° | 640.2 | 630.5 | 624.0 | 617.7 | 614.4 | 614.4 | 614.4 | 611.3 | 608.0 | 614.4 | 617.7 |
| 57.5° | 556.6 | 553.3 | 546.9 | 537.2 | 534.1 | 530.8 | 527.6 | 527.6 | 527.6 | 527.6 | 530.8 |
| 60° | 482.6 | 476.1 | 469.7 | 460.1 | 460.1 | 456.8 | 453.6 | 450.4 | 450.4 | 450.4 | 450.4 |
| 62.5° | 418.2 | 408.6 | 398.9 | 392.5 | 389.2 | 386.0 | 382.9 | 376.4 | 376.4 | 376.4 | 376.4 |
| 65° | 353.9 | 344.2 | 337.8 | 331.4 | 324.9 | 324.9 | 318.5 | 315.3 | 308.9 | 305.6 | 299.2 |
| 67.5° | 292.8 | 286.3 | 279.9 | 270.3 | 267.0 | 263.8 | 257.4 | 254.2 | 244.5 | 241.3 | 238.0 |
| 70° | 238.0 | 228.4 | 221.9 | 215.5 | 212.3 | 205.9 | 199.4 | 193.1 | 186.6 | 180.2 | 173.7 |
| 72.5° | 186.6 | 176.9 | 170.6 | 164.1 | 157.7 | 157.7 | 148.0 | 141.6 | 131.8 | 125.5 | 115.8 |
| 75° | 138.3 | 128.7 | 122.2 | 112.6 | 109.3 | 106.2 | 96.5 | 90.1 | 80.5 | 70.7 | 64.4 |
| 77.5° | 93.3 | 86.8 | 80.5 | 70.7 | 64.4 | 64.4 | 54.7 | 48.2 | 41.9 | 32.1 | 29.0 |
| 80° | 57.9 | 51.5 | 45.0 | 38.6 | 38.6 | 32.1 | 29.0 | 22.5 | 16.1 | 12.9 | 9.6 |
| 82.5° | 32.1 | 29.0 | 25.7 | 19.4 | 19.4 | 16.1 | 12.9 | 9.6 | 6.5 | 3.2 | 3.2 |
| 85° | 16.1 | 12.9 | 9.6 | 9.6 | 6.5 | 6.5 | 6.5 | 3.2 | 3.2 | 0.0 | 0.0 |
| 87.5° | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 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° | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 |
| 2.5° | 2403.1 | 2403.1 | 2399.8 | 2399.8 | 2399.8 | 2396.7 | 2399.8 | 2396.7 | 2396.7 | 2396.7 | 2399.8 |
| 5° | 2390.2 | 2383.8 | 2383.8 | 2380.6 | 2380.6 | 2377.3 | 2380.6 | 2377.3 | 2374.2 | 2370.9 | 2374.2 |
| 7.5° | 2364.4 | 2358.1 | 2354.8 | 2351.6 | 2351.6 | 2351.6 | 2348.3 | 2345.2 | 2348.3 | 2338.7 | 2345.2 |
| 10° | 2329.1 | 2325.8 | 2319.4 | 2316.2 | 2313.0 | 2316.2 | 2313.0 | 2306.6 | 2306.6 | 2306.6 | 2303.3 |
| 12.5° | 2284.1 | 2277.6 | 2274.4 | 2271.2 | 2264.7 | 2264.7 | 2268.0 | 2261.5 | 2261.5 | 2255.1 | 2255.1 |
| 15° | 2229.4 | 2223.0 | 2216.5 | 2216.5 | 2210.0 | 2210.0 | 2206.9 | 2206.9 | 2203.6 | 2200.4 | 2200.4 |
| 17.5° | 2161.8 | 2152.1 | 2145.8 | 2148.9 | 2145.8 | 2142.5 | 2142.5 | 2136.0 | 2132.9 | 2136.0 | 2136.0 |
| 20° | 2081.4 | 2074.9 | 2068.5 | 2071.8 | 2065.3 | 2062.0 | 2065.3 | 2055.7 | 2058.8 | 2058.8 | 2058.8 |
| 22.5° | 1991.3 | 1988.1 | 1978.4 | 1978.4 | 1972.0 | 1968.8 | 1972.0 | 1972.0 | 1975.2 | 1972.0 | 1972.0 |
| 25° | 1891.6 | 1885.1 | 1878.7 | 1878.7 | 1875.5 | 1872.2 | 1875.5 | 1878.7 | 1875.5 | 1878.7 | 1878.7 |
| 27.5° | 1785.4 | 1775.8 | 1775.8 | 1769.4 | 1769.4 | 1772.5 | 1769.4 | 1772.5 | 1775.8 | 1775.8 | 1782.1 |
| 30° | 1669.6 | 1666.4 | 1663.2 | 1659.9 | 1659.9 | 1663.2 | 1663.2 | 1663.2 | 1666.4 | 1672.8 | 1672.8 |
| 32.5° | 1560.2 | 1553.8 | 1547.3 | 1547.3 | 1553.8 | 1550.6 | 1553.8 | 1553.8 | 1560.2 | 1560.2 | 1566.7 |
| 35° | 1441.1 | 1441.1 | 1434.8 | 1438.0 | 1438.0 | 1438.0 | 1438.0 | 1444.4 | 1450.9 | 1454.1 | 1460.5 |
| 37.5° | 1331.8 | 1322.2 | 1325.4 | 1325.4 | 1328.7 | 1325.4 | 1335.0 | 1335.0 | 1341.4 | 1341.4 | 1347.9 |
| 40° | 1212.8 | 1212.8 | 1216.0 | 1212.8 | 1216.0 | 1216.0 | 1222.5 | 1228.8 | 1232.1 | 1238.6 | 1241.7 |
| 42.5° | 1100.2 | 1106.6 | 1100.2 | 1103.4 | 1106.6 | 1109.9 | 1113.1 | 1116.2 | 1129.1 | 1135.6 | 1145.2 |
| 45° | 997.3 | 1000.5 | 1003.7 | 1006.9 | 1003.7 | 1010.1 | 1013.4 | 1019.8 | 1029.4 | 1032.6 | 1035.9 |
| 47.5° | 897.6 | 900.7 | 903.9 | 907.2 | 907.2 | 913.6 | 916.8 | 923.3 | 929.7 | 932.9 | 936.2 |
| 50° | 801.0 | 807.5 | 810.7 | 810.7 | 813.9 | 820.3 | 826.7 | 826.7 | 833.2 | 842.8 | 846.1 |
| 52.5° | 714.1 | 714.1 | 720.6 | 723.9 | 727.0 | 727.0 | 736.6 | 739.9 | 743.1 | 749.5 | 756.0 |
| 55° | 617.7 | 627.3 | 630.5 | 630.5 | 636.9 | 643.4 | 646.6 | 649.8 | 649.8 | 662.7 | 662.7 |
| 57.5° | 534.1 | 537.2 | 543.7 | 543.7 | 543.7 | 553.3 | 553.3 | 559.8 | 562.9 | 566.2 | 572.7 |
| 60° | 450.4 | 456.8 | 456.8 | 460.1 | 456.8 | 463.2 | 466.5 | 472.8 | 476.1 | 479.3 | 482.6 |
| 62.5° | 373.1 | 373.1 | 376.4 | 376.4 | 376.4 | 376.4 | 382.9 | 382.9 | 389.2 | 392.5 | 395.7 |
| 65° | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 302.4 | 302.4 | 308.9 |
| 67.5° | 231.7 | 228.4 | 221.9 | 225.2 | 221.9 | 221.9 | 218.8 | 218.8 | 221.9 | 221.9 | 228.4 |
| 70° | 167.3 | 164.1 | 157.7 | 157.7 | 154.4 | 151.2 | 148.0 | 144.7 | 141.6 | 141.6 | 141.6 |
| 72.5° | 109.3 | 103.0 | 93.3 | 90.1 | 90.1 | 83.6 | 77.2 | 74.0 | 74.0 | 74.0 | 74.0 |
| 75° | 54.7 | 48.2 | 41.9 | 38.6 | 38.6 | 32.1 | 35.4 | 32.1 | 32.1 | 32.1 | 32.1 |
| 77.5° | 22.5 | 16.1 | 12.9 | 12.9 | 12.9 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 80° | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 82.5° | 3.2 | 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: P584667

CATALOG NUMBER: HCC8W45D010MW-HM82555830-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 | 2409.5 |
| 2.5° | 2396.7 | 2396.7 | 2390.2 | 2393.4 | 2393.4 | 2393.4 | 2393.4 | 2393.4 |
| 5° | 2367.7 | 2370.9 | 2367.7 | 2370.9 | 2370.9 | 2367.7 | 2367.7 | 2367.7 |
| 7.5° | 2338.7 | 2341.9 | 2338.7 | 2341.9 | 2341.9 | 2341.9 | 2338.7 | 2338.7 |
| 10° | 2303.3 | 2303.3 | 2303.3 | 2303.3 | 2303.3 | 2300.1 | 2303.3 | 2303.3 |
| 12.5° | 2255.1 | 2255.1 | 2255.1 | 2258.3 | 2258.3 | 2255.1 | 2255.1 | 2251.9 |
| 15° | 2203.6 | 2197.1 | 2200.4 | 2203.6 | 2200.4 | 2200.4 | 2200.4 | 2200.4 |
| 17.5° | 2132.9 | 2136.0 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2136.0 | 2132.9 |
| 20° | 2058.8 | 2058.8 | 2062.0 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2055.7 |
| 22.5° | 1975.2 | 1972.0 | 1972.0 | 1975.2 | 1975.2 | 1972.0 | 1975.2 | 1975.2 |
| 25° | 1882.0 | 1885.1 | 1882.0 | 1882.0 | 1885.1 | 1885.1 | 1885.1 | 1882.0 |
| 27.5° | 1782.1 | 1785.4 | 1788.6 | 1785.4 | 1785.4 | 1785.4 | 1788.6 | 1791.9 |
| 30° | 1679.3 | 1685.7 | 1679.3 | 1679.3 | 1685.7 | 1682.4 | 1685.7 | 1685.7 |
| 32.5° | 1569.8 | 1579.6 | 1573.1 | 1579.6 | 1579.6 | 1582.7 | 1579.6 | 1582.7 |
| 35° | 1460.5 | 1470.1 | 1470.1 | 1470.1 | 1473.4 | 1476.6 | 1476.6 | 1473.4 |
| 37.5° | 1357.5 | 1360.8 | 1360.8 | 1367.2 | 1370.4 | 1373.7 | 1373.7 | 1370.4 |
| 40° | 1251.4 | 1257.8 | 1261.1 | 1261.1 | 1261.1 | 1267.4 | 1273.9 | 1267.4 |
| 42.5° | 1148.5 | 1151.7 | 1154.9 | 1154.9 | 1161.3 | 1164.6 | 1167.7 | 1167.7 |
| 45° | 1048.8 | 1055.1 | 1058.4 | 1061.6 | 1064.8 | 1071.3 | 1068.0 | 1074.5 |
| 47.5° | 945.8 | 955.4 | 958.7 | 961.9 | 968.3 | 971.5 | 974.8 | 977.9 |
| 50° | 852.5 | 858.9 | 858.9 | 865.3 | 875.1 | 875.1 | 881.4 | 884.7 |
| 52.5° | 759.2 | 762.4 | 765.6 | 768.9 | 775.2 | 781.7 | 781.7 | 788.1 |
| 55° | 669.1 | 672.4 | 672.4 | 675.5 | 678.8 | 691.6 | 694.9 | 694.9 |
| 57.5° | 575.8 | 575.8 | 582.3 | 585.4 | 588.7 | 595.2 | 595.2 | 595.2 |
| 60° | 485.7 | 489.0 | 489.0 | 492.2 | 495.4 | 501.8 | 505.1 | 501.8 |
| 62.5° | 395.7 | 398.9 | 398.9 | 402.1 | 408.6 | 411.7 | 408.6 | 408.6 |
| 65° | 312.0 | 315.3 | 315.3 | 318.5 | 324.9 | 324.9 | 321.8 | 324.9 |
| 67.5° | 228.4 | 228.4 | 228.4 | 228.4 | 228.4 | 228.4 | 228.4 | 228.4 |
| 70° | 144.7 | 141.6 | 138.3 | 141.6 | 141.6 | 141.6 | 138.3 | 144.7 |
| 72.5° | 70.7 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 70.7 |
| 75° | 32.1 | 32.1 | 29.0 | 29.0 | 29.0 | 32.1 | 32.1 | 29.0 |
| 77.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 80° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 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)