

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: P593787

Luminaire Tested: **HCC8W45D010MB-HM82555950-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593787
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: HCC8W45D010MB-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

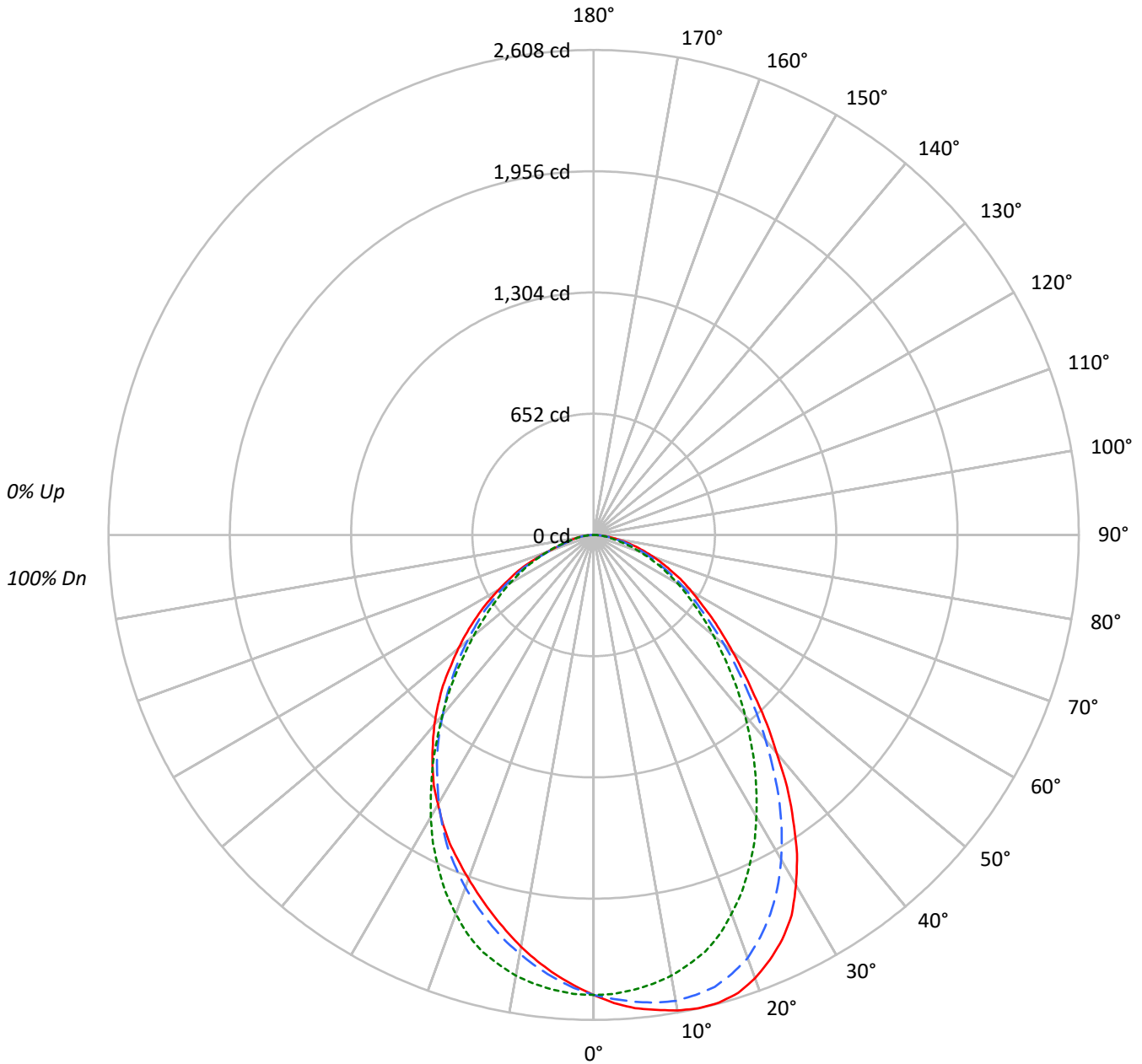
Lumens per Lamp: N/A
Luminaire Lumens: 4975.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P593787
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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° | 76289 | 76289 | 76289 |
| 5° | 79082 | 76036 | 73423 |
| 10° | 81314 | 75371 | 70421 |
| 15° | 83127 | 74045 | 67312 |
| 20° | 83259 | 71150 | 64577 |
| 25° | 81665 | 67198 | 62291 |
| 30° | 77452 | 62312 | 59559 |
| 35° | 70376 | 56749 | 56884 |
| 40° | 61536 | 50925 | 53610 |
| 45° | 53334 | 45362 | 49959 |
| 50° | 46697 | 40292 | 45517 |
| 55° | 41563 | 35708 | 41187 |
| 60° | 37497 | 32076 | 36196 |
| 65° | 33848 | 28201 | 31543 |
| 70° | 30420 | 23766 | 23450 |
| 75° | 26795 | 18836 | 17585 |
| 80° | 22482 | 15609 | 16852 |
| 85° | 17372 | 13692 | 14931 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.4 | 4.7 |
| 10°-20° | 657.4 | 13.2 |
| 20°-30° | 939.4 | 18.9 |
| 30°-40° | 998.2 | 20.1 |
| 40°-50° | 859.4 | 17.3 |
| 50°-60° | 642.6 | 12.9 |
| 60°-70° | 409.8 | 8.2 |
| 70°-80° | 186.5 | 3.7 |
| 80°-90° | 49.0 | 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° | 1830.2 | 36.8 |
| 0°-40° | 2828.4 | 56.8 |
| 0°-60° | 4330.4 | 87.0 |
| 0°-90° | 4975.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4975.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2474 | 2474 | 2474 | 2474 | 2474 | |
| 5° | 2555 | 2520 | 2456 | 2393 | 2372 | 245 |
| 15° | 2604 | 2516 | 2319 | 2161 | 2108 | 733 |
| 25° | 2400 | 2249 | 1975 | 1856 | 1831 | 1099 |
| 35° | 1870 | 1739 | 1508 | 1469 | 1511 | 1164 |
| 45° | 1223 | 1156 | 1040 | 1068 | 1146 | 951 |
| 55° | 773 | 710 | 664 | 720 | 766 | 695 |
| 65° | 464 | 411 | 386 | 404 | 432 | 463 |
| 75° | 225 | 193 | 158 | 144 | 148 | 239 |
| 85° | 49 | 42 | 39 | 42 | 42 | 59 |
| 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° | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 |
| 2.5° | 2519.6 | 2512.6 | 2516.1 | 2512.6 | 2516.1 | 2516.1 | 2509.0 | 2509.0 | 2509.0 | 2509.0 | 2498.5 |
| 5° | 2554.8 | 2551.3 | 2551.3 | 2547.8 | 2544.2 | 2547.8 | 2544.2 | 2540.7 | 2533.7 | 2530.2 | 2519.6 |
| 7.5° | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2572.4 | 2568.9 | 2565.4 | 2558.3 | 2551.3 | 2544.2 | 2537.2 |
| 10° | 2596.9 | 2600.4 | 2596.9 | 2593.4 | 2589.9 | 2582.8 | 2579.3 | 2572.4 | 2561.8 | 2551.3 | 2544.2 |
| 12.5° | 2607.5 | 2607.5 | 2603.9 | 2603.9 | 2596.9 | 2593.4 | 2582.8 | 2572.4 | 2561.8 | 2551.3 | 2533.7 |
| 15° | 2603.9 | 2603.9 | 2600.4 | 2596.9 | 2586.3 | 2582.8 | 2575.8 | 2565.4 | 2547.8 | 2533.7 | 2516.1 |
| 17.5° | 2582.8 | 2579.3 | 2572.4 | 2572.4 | 2558.3 | 2554.8 | 2547.8 | 2533.7 | 2516.1 | 2495.0 | 2474.0 |
| 20° | 2537.2 | 2537.2 | 2533.7 | 2530.2 | 2516.1 | 2505.5 | 2498.5 | 2481.0 | 2466.9 | 2442.3 | 2421.2 |
| 22.5° | 2474.0 | 2481.0 | 2474.0 | 2466.9 | 2449.3 | 2445.8 | 2435.3 | 2414.2 | 2393.2 | 2365.0 | 2340.4 |
| 25° | 2400.2 | 2396.7 | 2393.2 | 2386.1 | 2372.0 | 2365.0 | 2350.9 | 2329.8 | 2308.8 | 2277.1 | 2249.0 |
| 27.5° | 2305.3 | 2291.2 | 2291.2 | 2277.1 | 2266.6 | 2256.0 | 2249.0 | 2228.0 | 2199.8 | 2175.2 | 2140.1 |
| 30° | 2175.2 | 2178.7 | 2161.1 | 2157.6 | 2140.1 | 2133.1 | 2119.0 | 2097.9 | 2073.3 | 2045.2 | 2017.1 |
| 32.5° | 2034.7 | 2024.1 | 2024.1 | 2010.1 | 1996.0 | 1985.4 | 1982.0 | 1957.4 | 1936.3 | 1908.1 | 1880.1 |
| 35° | 1869.5 | 1869.5 | 1859.0 | 1855.5 | 1841.4 | 1834.3 | 1823.8 | 1809.8 | 1785.2 | 1760.6 | 1739.4 |
| 37.5° | 1707.9 | 1700.8 | 1697.3 | 1690.3 | 1679.7 | 1669.2 | 1669.2 | 1644.7 | 1641.1 | 1613.0 | 1584.8 |
| 40° | 1528.7 | 1535.7 | 1528.7 | 1518.1 | 1514.6 | 1507.5 | 1504.0 | 1489.9 | 1479.4 | 1454.9 | 1437.3 |
| 42.5° | 1377.6 | 1370.5 | 1370.5 | 1367.0 | 1352.9 | 1352.9 | 1345.9 | 1338.9 | 1321.3 | 1314.2 | 1293.2 |
| 45° | 1223.0 | 1229.9 | 1219.5 | 1223.0 | 1208.9 | 1208.9 | 1208.9 | 1194.8 | 1180.7 | 1170.2 | 1156.1 |
| 47.5° | 1089.4 | 1092.9 | 1092.9 | 1082.3 | 1078.8 | 1078.8 | 1071.8 | 1064.7 | 1054.3 | 1040.2 | 1029.7 |
| 50° | 973.4 | 976.9 | 970.0 | 966.4 | 959.4 | 955.9 | 955.9 | 941.8 | 934.8 | 920.7 | 913.6 |
| 52.5° | 868.0 | 868.0 | 864.5 | 864.5 | 853.9 | 853.9 | 846.9 | 836.3 | 829.3 | 822.3 | 804.7 |
| 55° | 773.1 | 773.1 | 769.6 | 766.1 | 766.1 | 755.5 | 752.0 | 741.5 | 734.4 | 720.3 | 709.9 |
| 57.5° | 681.7 | 685.3 | 681.7 | 678.2 | 674.7 | 671.2 | 664.2 | 653.6 | 646.6 | 636.0 | 629.1 |
| 60° | 608.0 | 608.0 | 604.4 | 600.9 | 593.9 | 590.4 | 586.9 | 579.8 | 569.3 | 562.2 | 551.7 |
| 62.5° | 537.7 | 534.2 | 530.7 | 527.1 | 520.1 | 520.1 | 513.1 | 506.0 | 495.5 | 488.4 | 481.4 |
| 65° | 463.9 | 463.9 | 460.4 | 460.4 | 456.9 | 449.8 | 446.3 | 442.8 | 428.7 | 425.2 | 411.1 |
| 67.5° | 397.1 | 400.6 | 393.5 | 393.5 | 386.5 | 386.5 | 383.0 | 372.5 | 369.0 | 362.0 | 354.9 |
| 70° | 337.4 | 337.4 | 337.4 | 333.8 | 326.8 | 323.3 | 319.8 | 312.7 | 309.2 | 302.2 | 295.2 |
| 72.5° | 277.6 | 277.6 | 274.1 | 274.1 | 270.6 | 267.1 | 263.6 | 256.5 | 256.5 | 249.5 | 242.5 |
| 75° | 224.9 | 224.9 | 221.3 | 217.8 | 214.3 | 214.3 | 210.9 | 207.4 | 200.3 | 196.8 | 193.3 |
| 77.5° | 172.2 | 172.2 | 172.2 | 168.7 | 165.2 | 165.2 | 165.2 | 158.1 | 151.1 | 151.1 | 147.6 |
| 80° | 126.6 | 126.6 | 123.0 | 123.0 | 119.5 | 119.5 | 119.5 | 116.0 | 112.5 | 109.0 | 105.5 |
| 82.5° | 84.3 | 84.3 | 84.3 | 84.3 | 80.8 | 80.8 | 80.8 | 77.3 | 73.8 | 73.8 | 73.8 |
| 85° | 49.1 | 49.1 | 49.1 | 49.1 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 42.2 | 42.2 |
| 87.5° | 21.1 | 17.6 | 21.1 | 17.6 | 21.1 | 17.6 | 21.1 | 17.6 | 17.6 | 17.6 | 17.6 |
| 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° | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 |
| 2.5° | 2502.0 | 2498.5 | 2495.0 | 2491.5 | 2491.5 | 2488.1 | 2481.0 | 2477.5 | 2474.0 | 2470.5 | 2470.5 |
| 5° | 2516.1 | 2512.6 | 2505.5 | 2498.5 | 2495.0 | 2488.1 | 2481.0 | 2474.0 | 2466.9 | 2456.4 | 2452.9 |
| 7.5° | 2526.6 | 2516.1 | 2509.0 | 2495.0 | 2491.5 | 2484.5 | 2474.0 | 2463.4 | 2449.3 | 2435.3 | 2424.7 |
| 10° | 2526.6 | 2512.6 | 2502.0 | 2484.5 | 2477.5 | 2470.5 | 2456.4 | 2438.8 | 2421.2 | 2407.1 | 2389.6 |
| 12.5° | 2519.6 | 2502.0 | 2484.5 | 2466.9 | 2456.4 | 2445.8 | 2424.7 | 2407.1 | 2386.1 | 2365.0 | 2350.9 |
| 15° | 2495.0 | 2474.0 | 2452.9 | 2431.7 | 2421.2 | 2407.1 | 2386.1 | 2361.5 | 2340.4 | 2319.4 | 2294.7 |
| 17.5° | 2449.3 | 2428.2 | 2403.7 | 2379.1 | 2365.0 | 2354.4 | 2322.8 | 2305.3 | 2273.6 | 2252.5 | 2231.5 |
| 20° | 2389.6 | 2365.0 | 2333.3 | 2308.8 | 2291.2 | 2280.7 | 2256.0 | 2224.5 | 2199.8 | 2168.2 | 2147.2 |
| 22.5° | 2312.3 | 2280.7 | 2249.0 | 2224.5 | 2206.9 | 2192.8 | 2161.1 | 2129.6 | 2108.5 | 2080.3 | 2055.8 |
| 25° | 2221.0 | 2189.3 | 2157.6 | 2122.5 | 2104.9 | 2090.9 | 2062.8 | 2034.7 | 2006.5 | 1975.0 | 1953.9 |
| 27.5° | 2112.0 | 2076.8 | 2048.8 | 2017.1 | 1999.5 | 1978.5 | 1946.8 | 1918.7 | 1890.6 | 1869.5 | 1841.4 |
| 30° | 1992.5 | 1953.9 | 1925.7 | 1894.2 | 1876.6 | 1859.0 | 1827.3 | 1799.3 | 1774.6 | 1750.0 | 1735.9 |
| 32.5° | 1848.4 | 1820.3 | 1792.2 | 1760.6 | 1746.5 | 1735.9 | 1704.4 | 1676.2 | 1648.1 | 1627.1 | 1616.5 |
| 35° | 1711.4 | 1679.7 | 1655.1 | 1627.1 | 1609.5 | 1598.9 | 1570.8 | 1546.2 | 1532.2 | 1507.5 | 1493.5 |
| 37.5° | 1567.2 | 1542.7 | 1514.6 | 1486.4 | 1476.0 | 1465.4 | 1444.3 | 1419.7 | 1398.6 | 1381.1 | 1374.1 |
| 40° | 1416.2 | 1395.0 | 1370.5 | 1352.9 | 1342.4 | 1331.8 | 1314.2 | 1296.8 | 1282.7 | 1265.1 | 1258.0 |
| 42.5° | 1272.1 | 1258.0 | 1236.9 | 1215.9 | 1205.4 | 1201.9 | 1180.7 | 1166.7 | 1159.6 | 1152.6 | 1145.6 |
| 45° | 1142.0 | 1121.0 | 1107.0 | 1092.9 | 1082.3 | 1075.3 | 1064.7 | 1054.3 | 1047.3 | 1040.2 | 1033.2 |
| 47.5° | 1015.6 | 998.0 | 983.9 | 973.4 | 962.9 | 959.4 | 952.4 | 941.8 | 934.8 | 934.8 | 934.8 |
| 50° | 899.6 | 885.6 | 871.5 | 864.5 | 861.0 | 853.9 | 846.9 | 843.4 | 839.9 | 839.9 | 839.9 |
| 52.5° | 797.8 | 783.7 | 773.1 | 766.1 | 766.1 | 759.0 | 752.0 | 748.5 | 748.5 | 748.5 | 748.5 |
| 55° | 702.9 | 692.3 | 685.3 | 678.2 | 671.2 | 667.7 | 667.7 | 667.7 | 664.2 | 664.2 | 667.7 |
| 57.5° | 618.5 | 611.5 | 600.9 | 593.9 | 590.4 | 590.4 | 586.9 | 583.3 | 586.9 | 590.4 | 593.9 |
| 60° | 541.2 | 534.2 | 530.7 | 520.1 | 520.1 | 520.1 | 516.6 | 516.6 | 516.6 | 520.1 | 523.6 |
| 62.5° | 470.8 | 467.3 | 460.4 | 456.9 | 453.4 | 453.4 | 449.8 | 449.8 | 449.8 | 449.8 | 453.4 |
| 65° | 407.6 | 400.6 | 393.5 | 393.5 | 393.5 | 390.0 | 390.0 | 383.0 | 386.5 | 386.5 | 383.0 |
| 67.5° | 347.9 | 340.9 | 337.4 | 333.8 | 330.3 | 330.3 | 326.8 | 323.3 | 319.8 | 319.8 | 319.8 |
| 70° | 291.7 | 284.7 | 284.7 | 277.6 | 277.6 | 274.1 | 270.6 | 270.6 | 267.1 | 263.6 | 260.1 |
| 72.5° | 235.4 | 231.9 | 228.4 | 224.9 | 224.9 | 224.9 | 221.3 | 217.8 | 214.3 | 210.9 | 203.9 |
| 75° | 186.3 | 186.3 | 179.2 | 175.7 | 175.7 | 172.2 | 168.7 | 165.2 | 161.6 | 158.1 | 154.6 |
| 77.5° | 144.0 | 140.5 | 133.5 | 130.0 | 130.0 | 130.0 | 126.6 | 123.0 | 119.5 | 116.0 | 112.5 |
| 80° | 105.5 | 101.9 | 98.4 | 94.9 | 94.9 | 94.9 | 91.4 | 91.4 | 87.9 | 87.9 | 87.9 |
| 82.5° | 70.3 | 70.3 | 66.7 | 66.7 | 66.7 | 66.7 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 |
| 85° | 42.2 | 42.2 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| 87.5° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 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° | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 |
| 2.5° | 2463.4 | 2463.4 | 2456.4 | 2452.9 | 2449.3 | 2452.9 | 2445.8 | 2442.3 | 2438.8 | 2438.8 | 2435.3 |
| 5° | 2442.3 | 2438.8 | 2424.7 | 2421.2 | 2417.7 | 2414.2 | 2407.1 | 2400.2 | 2393.2 | 2389.6 | 2386.1 |
| 7.5° | 2414.2 | 2403.7 | 2389.6 | 2386.1 | 2382.6 | 2372.0 | 2361.5 | 2354.4 | 2343.9 | 2340.4 | 2333.3 |
| 10° | 2375.6 | 2361.5 | 2350.9 | 2340.4 | 2333.3 | 2322.8 | 2312.3 | 2301.8 | 2287.7 | 2284.2 | 2273.6 |
| 12.5° | 2329.8 | 2312.3 | 2291.2 | 2287.7 | 2277.1 | 2263.1 | 2249.0 | 2238.4 | 2228.0 | 2221.0 | 2210.4 |
| 15° | 2273.6 | 2256.0 | 2235.0 | 2224.5 | 2213.9 | 2203.4 | 2185.8 | 2171.7 | 2161.1 | 2150.7 | 2140.1 |
| 17.5° | 2206.9 | 2185.8 | 2168.2 | 2157.6 | 2150.7 | 2133.1 | 2119.0 | 2101.4 | 2090.9 | 2080.3 | 2069.8 |
| 20° | 2126.1 | 2108.5 | 2083.8 | 2073.3 | 2069.8 | 2055.8 | 2038.2 | 2031.2 | 2017.1 | 2006.5 | 1999.5 |
| 22.5° | 2034.7 | 2017.1 | 1996.0 | 1988.9 | 1975.0 | 1967.9 | 1950.3 | 1943.3 | 1936.3 | 1925.7 | 1922.2 |
| 25° | 1932.8 | 1915.2 | 1897.7 | 1894.2 | 1883.6 | 1876.6 | 1866.0 | 1855.5 | 1855.5 | 1844.9 | 1844.9 |
| 27.5° | 1827.3 | 1809.8 | 1795.7 | 1788.7 | 1785.2 | 1778.2 | 1767.6 | 1764.1 | 1760.6 | 1757.0 | 1757.0 |
| 30° | 1714.9 | 1693.8 | 1686.8 | 1683.3 | 1679.7 | 1672.7 | 1669.2 | 1662.1 | 1665.7 | 1669.2 | 1665.7 |
| 32.5° | 1595.4 | 1588.4 | 1574.3 | 1567.2 | 1570.8 | 1567.2 | 1560.3 | 1567.2 | 1563.7 | 1570.8 | 1574.3 |
| 35° | 1479.4 | 1472.5 | 1465.4 | 1465.4 | 1458.4 | 1458.4 | 1458.4 | 1461.9 | 1468.9 | 1472.5 | 1479.4 |
| 37.5° | 1367.0 | 1356.5 | 1352.9 | 1349.4 | 1352.9 | 1352.9 | 1352.9 | 1360.0 | 1367.0 | 1374.1 | 1384.6 |
| 40° | 1247.5 | 1240.4 | 1240.4 | 1240.4 | 1240.4 | 1251.0 | 1247.5 | 1254.5 | 1261.6 | 1272.1 | 1282.7 |
| 42.5° | 1135.1 | 1135.1 | 1138.6 | 1138.6 | 1138.6 | 1138.6 | 1145.6 | 1156.1 | 1166.7 | 1177.2 | 1187.8 |
| 45° | 1029.7 | 1029.7 | 1029.7 | 1036.7 | 1036.7 | 1040.2 | 1054.3 | 1061.2 | 1068.3 | 1078.8 | 1089.4 |
| 47.5° | 931.2 | 931.2 | 934.8 | 938.3 | 941.8 | 948.8 | 955.9 | 966.4 | 976.9 | 983.9 | 994.5 |
| 50° | 839.9 | 843.4 | 850.4 | 857.5 | 857.5 | 861.0 | 871.5 | 878.6 | 885.6 | 896.1 | 899.6 |
| 52.5° | 752.0 | 759.0 | 766.1 | 769.6 | 773.1 | 780.2 | 783.7 | 794.2 | 797.8 | 808.2 | 811.7 |
| 55° | 671.2 | 674.7 | 685.3 | 688.8 | 688.8 | 695.8 | 702.9 | 709.9 | 720.3 | 720.3 | 727.4 |
| 57.5° | 597.4 | 600.9 | 608.0 | 611.5 | 608.0 | 618.5 | 622.0 | 629.1 | 632.6 | 639.5 | 643.0 |
| 60° | 523.6 | 530.7 | 534.2 | 534.2 | 537.7 | 541.2 | 548.3 | 548.3 | 555.2 | 562.2 | 562.2 |
| 62.5° | 453.4 | 456.9 | 460.4 | 463.9 | 467.3 | 463.9 | 474.4 | 474.4 | 481.4 | 484.9 | 492.0 |
| 65° | 386.5 | 390.0 | 390.0 | 393.5 | 393.5 | 397.1 | 397.1 | 400.6 | 404.1 | 411.1 | 414.7 |
| 67.5° | 319.8 | 319.8 | 319.8 | 323.3 | 319.8 | 323.3 | 323.3 | 326.8 | 326.8 | 333.8 | 337.4 |
| 70° | 260.1 | 256.5 | 253.0 | 253.0 | 253.0 | 253.0 | 249.5 | 253.0 | 253.0 | 256.5 | 256.5 |
| 72.5° | 200.3 | 196.8 | 193.3 | 189.8 | 189.8 | 186.3 | 182.8 | 186.3 | 186.3 | 189.8 | 189.8 |
| 75° | 151.1 | 144.0 | 144.0 | 144.0 | 140.5 | 140.5 | 140.5 | 144.0 | 144.0 | 144.0 | 147.6 |
| 77.5° | 112.5 | 112.5 | 109.0 | 109.0 | 109.0 | 112.5 | 112.5 | 116.0 | 116.0 | 116.0 | 116.0 |
| 80° | 84.3 | 87.9 | 87.9 | 87.9 | 87.9 | 91.4 | 91.4 | 91.4 | 91.4 | 94.9 | 94.9 |
| 82.5° | 63.2 | 63.2 | 63.2 | 63.2 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 85° | 38.7 | 42.2 | 42.2 | 38.7 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 87.5° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 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: P593787

CATALOG NUMBER: HCC8W45D010MB-HM82555950-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 |
| 2.5° | 2431.7 | 2431.7 | 2431.7 | 2431.7 | 2428.2 | 2428.2 | 2428.2 | 2424.7 |
| 5° | 2379.1 | 2379.1 | 2379.1 | 2372.0 | 2375.6 | 2375.6 | 2368.5 | 2372.0 |
| 7.5° | 2326.3 | 2322.8 | 2319.4 | 2319.4 | 2315.9 | 2312.3 | 2308.8 | 2312.3 |
| 10° | 2266.6 | 2256.0 | 2256.0 | 2252.5 | 2252.5 | 2245.5 | 2245.5 | 2249.0 |
| 12.5° | 2199.8 | 2192.8 | 2192.8 | 2189.3 | 2185.8 | 2182.2 | 2178.7 | 2178.7 |
| 15° | 2133.1 | 2126.1 | 2122.5 | 2119.0 | 2115.5 | 2108.5 | 2112.0 | 2108.5 |
| 17.5° | 2066.4 | 2055.8 | 2055.8 | 2052.3 | 2048.8 | 2041.7 | 2041.7 | 2038.2 |
| 20° | 1988.9 | 1985.4 | 1978.5 | 1982.0 | 1978.5 | 1971.5 | 1967.9 | 1967.9 |
| 22.5° | 1911.6 | 1911.6 | 1908.1 | 1908.1 | 1904.6 | 1901.1 | 1897.7 | 1897.7 |
| 25° | 1837.9 | 1834.3 | 1837.9 | 1837.9 | 1827.3 | 1827.3 | 1827.3 | 1830.8 |
| 27.5° | 1753.5 | 1757.0 | 1753.5 | 1753.5 | 1753.5 | 1753.5 | 1757.0 | 1753.5 |
| 30° | 1669.2 | 1669.2 | 1669.2 | 1672.7 | 1679.7 | 1676.2 | 1676.2 | 1672.7 |
| 32.5° | 1577.8 | 1581.3 | 1581.3 | 1584.8 | 1588.4 | 1595.4 | 1595.4 | 1598.9 |
| 35° | 1486.4 | 1493.5 | 1497.0 | 1493.5 | 1504.0 | 1504.0 | 1511.1 | 1511.1 |
| 37.5° | 1391.6 | 1395.0 | 1402.1 | 1405.6 | 1412.6 | 1416.2 | 1419.7 | 1419.7 |
| 40° | 1289.7 | 1303.8 | 1307.3 | 1310.7 | 1321.3 | 1321.3 | 1324.8 | 1331.8 |
| 42.5° | 1194.8 | 1208.9 | 1212.4 | 1215.9 | 1223.0 | 1233.4 | 1229.9 | 1236.9 |
| 45° | 1103.4 | 1114.0 | 1117.5 | 1121.0 | 1131.6 | 1135.1 | 1135.1 | 1145.6 |
| 47.5° | 1005.0 | 1012.1 | 1015.6 | 1022.6 | 1029.7 | 1036.7 | 1043.7 | 1040.2 |
| 50° | 906.6 | 917.2 | 924.2 | 927.7 | 938.3 | 941.8 | 945.3 | 948.8 |
| 52.5° | 818.8 | 825.8 | 829.3 | 832.8 | 843.4 | 846.9 | 850.4 | 857.5 |
| 55° | 734.4 | 737.9 | 745.0 | 741.5 | 752.0 | 755.5 | 759.0 | 766.1 |
| 57.5° | 650.1 | 653.6 | 657.1 | 657.1 | 664.2 | 671.2 | 674.7 | 678.2 |
| 60° | 569.3 | 576.3 | 579.8 | 579.8 | 579.8 | 586.9 | 586.9 | 586.9 |
| 62.5° | 495.5 | 495.5 | 499.0 | 499.0 | 506.0 | 506.0 | 506.0 | 506.0 |
| 65° | 418.2 | 421.7 | 425.2 | 425.2 | 432.3 | 428.7 | 435.8 | 432.3 |
| 67.5° | 337.4 | 337.4 | 344.4 | 344.4 | 340.9 | 344.4 | 344.4 | 344.4 |
| 70° | 256.5 | 256.5 | 260.1 | 260.1 | 260.1 | 260.1 | 260.1 | 260.1 |
| 72.5° | 189.8 | 189.8 | 189.8 | 193.3 | 189.8 | 189.8 | 193.3 | 189.8 |
| 75° | 147.6 | 147.6 | 147.6 | 147.6 | 147.6 | 147.6 | 147.6 | 147.6 |
| 77.5° | 116.0 | 116.0 | 119.5 | 119.5 | 119.5 | 119.5 | 119.5 | 119.5 |
| 80° | 94.9 | 94.9 | 94.9 | 94.9 | 98.4 | 94.9 | 94.9 | 94.9 |
| 82.5° | 70.3 | 66.7 | 70.3 | 66.7 | 70.3 | 70.3 | 70.3 | 70.3 |
| 85° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 87.5° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 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)