

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: P585082

Luminaire Tested: **HCC8W60D010BZ-HM86080830-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585082
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: HCC8W60D010BZ-HM86080830-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

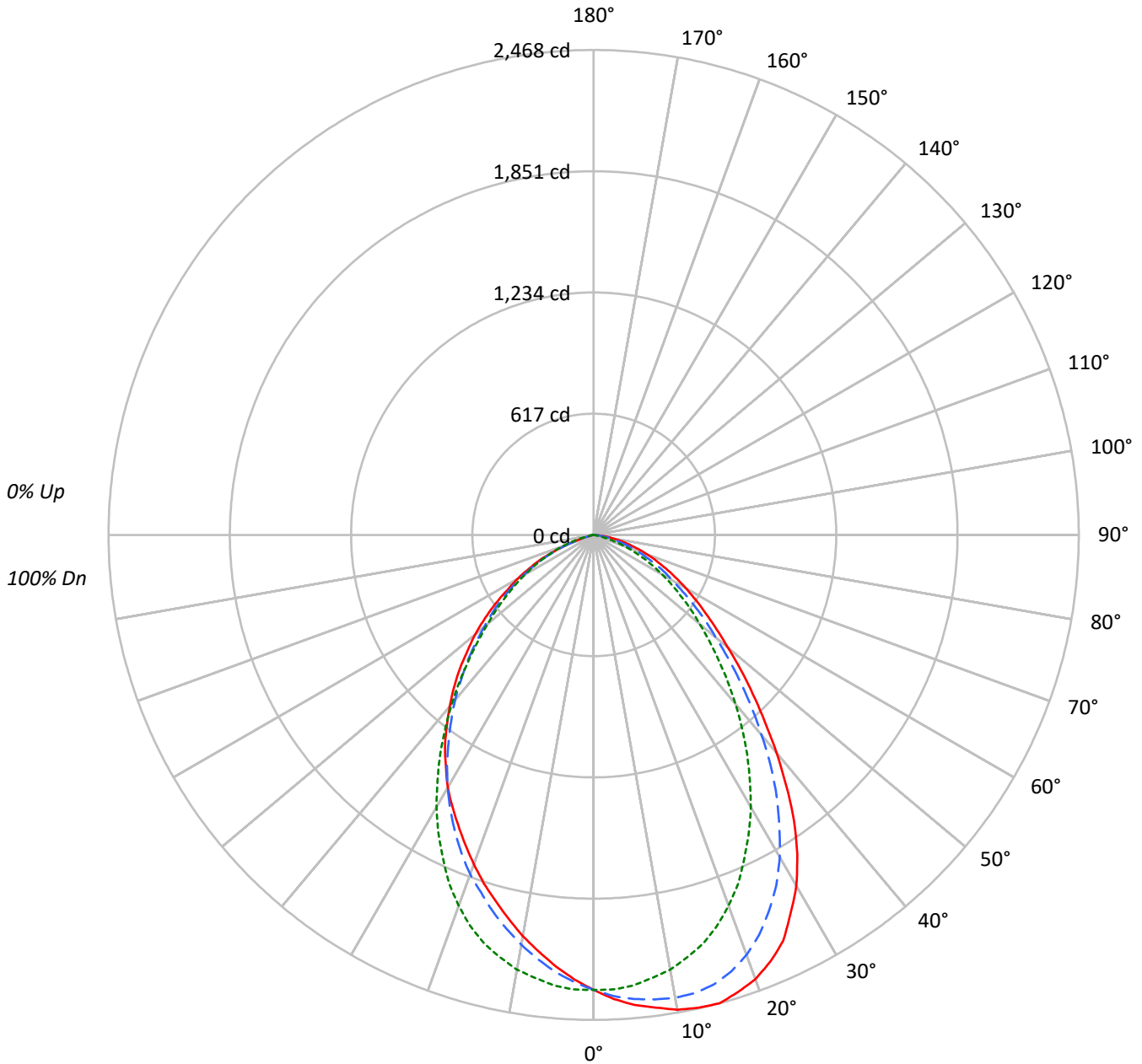
Lumens per Lamp: N/A
Luminaire Lumens: 4312.8 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P585082
CATALOG NUMBER: HCC8W60D010BZ-HM86080830-81WWBB

Luminous Intensity Polar Plot



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CATALOG NUMBER: HCC8W60D010BZ-HM86080830-81WWBB

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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 71395 | 71395 | 71395 |
| 5° | 74346 | 71241 | 68241 |
| 10° | 76837 | 70330 | 64913 |
| 15° | 78779 | 68723 | 61543 |
| 20° | 78931 | 65873 | 58487 |
| 25° | 77599 | 61703 | 55463 |
| 30° | 73446 | 56935 | 52869 |
| 35° | 66965 | 51204 | 49638 |
| 40° | 58235 | 45137 | 45833 |
| 45° | 49959 | 39091 | 41961 |
| 50° | 42672 | 33701 | 37687 |
| 55° | 37396 | 29026 | 32746 |
| 60° | 33297 | 24762 | 27537 |
| 65° | 29551 | 20204 | 21977 |
| 70° | 26218 | 14975 | 12478 |
| 75° | 21851 | 7828 | 3705 |
| 80° | 17207 | 2451 | 622 |
| 85° | 12242 | 1238 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 218.2 | 5.1 |
| 10°-20° | 611.5 | 14.2 |
| 20°-30° | 865.5 | 20.1 |
| 30°-40° | 905.5 | 21.0 |
| 40°-50° | 755.2 | 17.5 |
| 50°-60° | 535.6 | 12.4 |
| 60°-70° | 308.5 | 7.2 |
| 70°-80° | 99.2 | 2.3 |
| 80°-90° | 13.7 | 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° | 1695.1 | 39.3 |
| 0°-40° | 2600.6 | 60.3 |
| 0°-60° | 3891.4 | 90.2 |
| 0°-90° | 4312.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4312.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2315 | 2315 | 2315 | 2315 | 2315 | |
| 5° | 2402 | 2371 | 2302 | 2232 | 2205 | 231 |
| 15° | 2468 | 2367 | 2153 | 1983 | 1928 | 694 |
| 25° | 2281 | 2111 | 1814 | 1668 | 1630 | 1041 |
| 35° | 1779 | 1623 | 1360 | 1287 | 1319 | 1103 |
| 45° | 1146 | 1052 | 896 | 907 | 962 | 888 |
| 55° | 696 | 623 | 540 | 568 | 609 | 628 |
| 65° | 405 | 339 | 277 | 277 | 301 | 405 |
| 75° | 183 | 135 | 66 | 31 | 31 | 199 |
| 85° | 35 | 17 | 4 | 0 | 0 | 43 |
| 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° | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 |
| 2.5° | 2363.8 | 2360.3 | 2356.9 | 2360.3 | 2356.9 | 2360.3 | 2356.9 | 2356.9 | 2353.4 | 2349.9 | 2349.9 |
| 5° | 2401.8 | 2398.4 | 2398.4 | 2398.4 | 2394.9 | 2391.5 | 2391.5 | 2388.0 | 2381.1 | 2377.6 | 2370.7 |
| 7.5° | 2426.2 | 2429.6 | 2429.6 | 2429.6 | 2422.7 | 2422.7 | 2415.7 | 2408.8 | 2401.8 | 2394.9 | 2384.5 |
| 10° | 2453.9 | 2453.9 | 2450.4 | 2446.9 | 2440.0 | 2436.6 | 2433.1 | 2426.2 | 2415.7 | 2401.8 | 2391.5 |
| 12.5° | 2464.2 | 2464.2 | 2460.8 | 2453.9 | 2450.4 | 2446.9 | 2443.5 | 2433.1 | 2419.3 | 2401.8 | 2388.0 |
| 15° | 2467.7 | 2460.8 | 2457.3 | 2453.9 | 2446.9 | 2436.6 | 2436.6 | 2422.7 | 2405.3 | 2384.5 | 2367.2 |
| 17.5° | 2440.0 | 2443.5 | 2436.6 | 2429.6 | 2419.3 | 2412.2 | 2401.8 | 2391.5 | 2370.7 | 2346.5 | 2329.2 |
| 20° | 2405.3 | 2401.8 | 2398.4 | 2388.0 | 2374.2 | 2370.7 | 2360.3 | 2343.0 | 2325.7 | 2298.0 | 2273.8 |
| 22.5° | 2349.9 | 2346.5 | 2339.6 | 2332.6 | 2318.8 | 2311.9 | 2301.5 | 2280.7 | 2256.5 | 2228.8 | 2201.1 |
| 25° | 2280.7 | 2273.8 | 2263.4 | 2249.6 | 2239.2 | 2232.3 | 2218.4 | 2197.7 | 2170.0 | 2138.9 | 2111.2 |
| 27.5° | 2170.0 | 2180.4 | 2173.5 | 2152.7 | 2142.3 | 2128.5 | 2125.0 | 2097.3 | 2073.1 | 2042.0 | 2010.8 |
| 30° | 2062.7 | 2062.7 | 2052.4 | 2042.0 | 2024.7 | 2014.3 | 2000.5 | 1979.7 | 1955.5 | 1917.4 | 1893.2 |
| 32.5° | 1927.8 | 1924.3 | 1910.5 | 1907.0 | 1893.2 | 1872.3 | 1868.9 | 1841.2 | 1817.0 | 1789.3 | 1758.1 |
| 35° | 1778.9 | 1772.0 | 1758.1 | 1747.7 | 1740.8 | 1730.4 | 1720.1 | 1695.8 | 1671.6 | 1643.9 | 1623.2 |
| 37.5° | 1609.3 | 1609.3 | 1605.9 | 1588.6 | 1581.7 | 1574.7 | 1564.4 | 1540.1 | 1526.3 | 1498.6 | 1477.9 |
| 40° | 1446.7 | 1443.2 | 1432.9 | 1429.4 | 1422.5 | 1412.1 | 1405.2 | 1391.3 | 1370.6 | 1349.8 | 1328.9 |
| 42.5° | 1287.4 | 1290.9 | 1277.0 | 1280.5 | 1266.7 | 1259.7 | 1256.3 | 1235.5 | 1225.1 | 1204.4 | 1187.1 |
| 45° | 1145.6 | 1142.1 | 1135.2 | 1131.7 | 1124.8 | 1117.9 | 1111.0 | 1100.6 | 1083.3 | 1062.5 | 1052.1 |
| 47.5° | 1014.1 | 1003.7 | 1003.7 | 1000.2 | 996.8 | 982.9 | 979.5 | 969.1 | 958.7 | 937.9 | 924.1 |
| 50° | 889.5 | 889.5 | 889.5 | 886.0 | 875.7 | 872.2 | 865.3 | 854.9 | 844.5 | 830.7 | 809.9 |
| 52.5° | 789.0 | 789.0 | 789.0 | 785.6 | 771.7 | 768.3 | 764.8 | 751.0 | 737.1 | 726.8 | 712.9 |
| 55° | 695.6 | 699.1 | 695.6 | 688.7 | 678.3 | 678.3 | 667.9 | 661.0 | 647.2 | 636.8 | 623.0 |
| 57.5° | 616.0 | 616.0 | 609.1 | 605.7 | 598.7 | 595.3 | 588.3 | 581.4 | 564.1 | 553.7 | 536.4 |
| 60° | 539.9 | 536.4 | 536.4 | 529.5 | 522.6 | 515.7 | 512.2 | 501.8 | 494.9 | 477.6 | 463.8 |
| 62.5° | 470.7 | 470.7 | 463.8 | 463.8 | 449.9 | 449.9 | 446.5 | 436.1 | 425.7 | 408.4 | 401.5 |
| 65° | 405.0 | 405.0 | 401.5 | 398.0 | 387.7 | 384.2 | 380.7 | 370.4 | 360.0 | 349.6 | 339.2 |
| 67.5° | 346.1 | 346.1 | 339.2 | 335.8 | 328.8 | 325.4 | 318.5 | 311.5 | 301.2 | 290.8 | 280.4 |
| 70° | 290.8 | 287.3 | 283.9 | 280.4 | 273.5 | 270.0 | 263.0 | 256.1 | 245.7 | 238.8 | 228.4 |
| 72.5° | 235.3 | 235.3 | 231.8 | 224.9 | 221.5 | 218.0 | 214.5 | 207.6 | 197.2 | 186.9 | 179.9 |
| 75° | 183.4 | 183.4 | 183.4 | 176.5 | 169.5 | 166.1 | 166.1 | 159.2 | 152.2 | 141.9 | 134.9 |
| 77.5° | 141.9 | 138.4 | 134.9 | 134.9 | 128.0 | 124.6 | 121.1 | 117.6 | 107.3 | 103.8 | 96.9 |
| 80° | 96.9 | 100.3 | 96.9 | 93.4 | 90.0 | 86.5 | 86.5 | 79.6 | 76.1 | 69.2 | 62.3 |
| 82.5° | 65.7 | 62.3 | 62.3 | 58.8 | 58.8 | 55.4 | 55.4 | 48.4 | 45.0 | 41.5 | 38.1 |
| 85° | 34.6 | 34.6 | 31.1 | 31.1 | 31.1 | 27.7 | 27.7 | 24.2 | 24.2 | 20.8 | 17.3 |
| 87.5° | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 6.9 | 6.9 | 6.9 |
| 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° | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 |
| 2.5° | 2346.5 | 2339.6 | 2336.1 | 2336.1 | 2332.6 | 2329.2 | 2325.7 | 2322.3 | 2315.3 | 2315.3 | 2308.4 |
| 5° | 2363.8 | 2356.9 | 2353.4 | 2343.0 | 2336.1 | 2336.1 | 2322.3 | 2318.8 | 2308.4 | 2301.5 | 2294.6 |
| 7.5° | 2377.6 | 2363.8 | 2353.4 | 2343.0 | 2336.1 | 2329.2 | 2315.3 | 2301.5 | 2287.7 | 2273.8 | 2266.9 |
| 10° | 2377.6 | 2363.8 | 2346.5 | 2329.2 | 2322.3 | 2315.3 | 2298.0 | 2277.3 | 2260.0 | 2246.1 | 2228.8 |
| 12.5° | 2370.7 | 2349.9 | 2329.2 | 2315.3 | 2301.5 | 2291.1 | 2270.4 | 2249.6 | 2228.8 | 2201.1 | 2187.3 |
| 15° | 2349.9 | 2322.3 | 2301.5 | 2277.3 | 2266.9 | 2249.6 | 2232.3 | 2201.1 | 2176.9 | 2152.7 | 2135.4 |
| 17.5° | 2308.4 | 2273.8 | 2249.6 | 2225.4 | 2208.1 | 2197.7 | 2170.0 | 2142.3 | 2114.6 | 2087.0 | 2066.2 |
| 20° | 2246.1 | 2215.0 | 2187.3 | 2156.2 | 2142.3 | 2128.5 | 2093.9 | 2066.2 | 2038.5 | 2007.4 | 1986.6 |
| 22.5° | 2170.0 | 2138.9 | 2100.8 | 2076.6 | 2055.8 | 2038.5 | 2007.4 | 1976.2 | 1948.6 | 1920.9 | 1893.2 |
| 25° | 2076.6 | 2045.4 | 2010.8 | 1972.8 | 1958.9 | 1941.6 | 1907.0 | 1875.8 | 1844.6 | 1813.5 | 1789.3 |
| 27.5° | 1976.2 | 1934.7 | 1907.0 | 1865.4 | 1851.6 | 1834.3 | 1796.2 | 1761.6 | 1733.9 | 1709.7 | 1682.0 |
| 30° | 1855.0 | 1823.9 | 1785.8 | 1747.7 | 1733.9 | 1716.6 | 1685.5 | 1654.3 | 1626.6 | 1599.0 | 1571.3 |
| 32.5° | 1723.5 | 1692.4 | 1654.3 | 1626.6 | 1605.9 | 1592.0 | 1560.9 | 1533.2 | 1505.5 | 1477.9 | 1453.6 |
| 35° | 1585.1 | 1550.5 | 1522.8 | 1495.2 | 1477.9 | 1460.6 | 1429.4 | 1405.2 | 1384.4 | 1360.2 | 1335.9 |
| 37.5° | 1443.2 | 1419.0 | 1391.3 | 1360.2 | 1342.8 | 1328.9 | 1304.7 | 1277.0 | 1259.7 | 1239.0 | 1221.7 |
| 40° | 1304.7 | 1277.0 | 1252.8 | 1225.1 | 1211.3 | 1200.9 | 1176.7 | 1155.9 | 1138.6 | 1121.3 | 1111.0 |
| 42.5° | 1162.9 | 1138.6 | 1114.4 | 1097.1 | 1086.7 | 1076.4 | 1059.1 | 1034.8 | 1024.4 | 1007.1 | 996.8 |
| 45° | 1031.4 | 1010.6 | 993.3 | 969.1 | 962.2 | 955.2 | 934.5 | 917.2 | 906.8 | 896.4 | 889.5 |
| 47.5° | 906.8 | 893.0 | 872.2 | 858.4 | 848.0 | 841.1 | 827.2 | 813.4 | 802.9 | 796.0 | 789.0 |
| 50° | 799.4 | 782.1 | 768.3 | 754.4 | 747.5 | 737.1 | 723.3 | 716.4 | 709.5 | 702.5 | 702.5 |
| 52.5° | 699.1 | 681.8 | 667.9 | 657.6 | 650.6 | 643.7 | 633.3 | 629.9 | 623.0 | 623.0 | 619.5 |
| 55° | 605.7 | 595.3 | 581.4 | 567.6 | 564.1 | 560.7 | 553.7 | 546.8 | 543.4 | 539.9 | 543.4 |
| 57.5° | 526.1 | 515.7 | 501.8 | 491.5 | 488.0 | 484.5 | 481.1 | 474.2 | 470.7 | 470.7 | 470.7 |
| 60° | 453.4 | 443.0 | 432.6 | 422.3 | 422.3 | 415.3 | 411.9 | 408.4 | 405.0 | 401.5 | 401.5 |
| 62.5° | 387.7 | 377.3 | 366.9 | 360.0 | 356.5 | 353.1 | 346.1 | 342.7 | 339.2 | 339.2 | 335.8 |
| 65° | 328.8 | 315.0 | 311.5 | 301.2 | 297.7 | 294.2 | 290.8 | 283.9 | 280.4 | 276.9 | 273.5 |
| 67.5° | 270.0 | 263.0 | 252.6 | 245.7 | 242.2 | 238.8 | 235.3 | 228.4 | 224.9 | 221.5 | 214.5 |
| 70° | 218.0 | 211.1 | 204.2 | 197.2 | 193.8 | 190.3 | 183.4 | 176.5 | 173.0 | 166.1 | 155.7 |
| 72.5° | 169.5 | 162.6 | 155.7 | 148.8 | 145.3 | 141.9 | 134.9 | 128.0 | 121.1 | 114.2 | 107.3 |
| 75° | 128.0 | 121.1 | 110.7 | 103.8 | 100.3 | 100.3 | 90.0 | 83.0 | 76.1 | 65.7 | 58.8 |
| 77.5° | 90.0 | 79.6 | 76.1 | 69.2 | 65.7 | 58.8 | 51.9 | 45.0 | 38.1 | 34.6 | 27.7 |
| 80° | 58.8 | 51.9 | 45.0 | 41.5 | 38.1 | 34.6 | 31.1 | 24.2 | 17.3 | 13.8 | 10.4 |
| 82.5° | 34.6 | 31.1 | 27.7 | 24.2 | 20.8 | 17.3 | 13.8 | 13.8 | 10.4 | 6.9 | 3.5 |
| 85° | 17.3 | 13.8 | 10.4 | 10.4 | 6.9 | 6.9 | 6.9 | 3.5 | 3.5 | 3.5 | 3.5 |
| 87.5° | 6.9 | 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° | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 |
| 2.5° | 2305.0 | 2301.5 | 2298.0 | 2294.6 | 2294.6 | 2287.7 | 2287.7 | 2284.2 | 2277.3 | 2273.8 | 2273.8 |
| 5° | 2284.2 | 2273.8 | 2266.9 | 2263.4 | 2260.0 | 2249.6 | 2246.1 | 2239.2 | 2232.3 | 2225.4 | 2221.9 |
| 7.5° | 2253.1 | 2235.8 | 2228.8 | 2225.4 | 2215.0 | 2204.6 | 2197.7 | 2187.3 | 2176.9 | 2166.5 | 2163.1 |
| 10° | 2215.0 | 2197.7 | 2180.4 | 2173.5 | 2163.1 | 2156.2 | 2142.3 | 2128.5 | 2118.1 | 2107.7 | 2097.3 |
| 12.5° | 2166.5 | 2145.8 | 2128.5 | 2121.6 | 2111.2 | 2097.3 | 2076.6 | 2069.7 | 2052.4 | 2045.4 | 2031.6 |
| 15° | 2111.2 | 2087.0 | 2069.7 | 2059.3 | 2048.9 | 2028.1 | 2014.3 | 2000.5 | 1983.2 | 1976.2 | 1962.4 |
| 17.5° | 2042.0 | 2014.3 | 1997.0 | 1986.6 | 1979.7 | 1962.4 | 1941.6 | 1924.3 | 1907.0 | 1900.1 | 1889.7 |
| 20° | 1958.9 | 1941.6 | 1917.4 | 1907.0 | 1900.1 | 1879.2 | 1858.5 | 1851.6 | 1837.7 | 1823.9 | 1813.5 |
| 22.5° | 1865.4 | 1848.1 | 1823.9 | 1813.5 | 1810.0 | 1792.7 | 1775.4 | 1765.0 | 1754.7 | 1744.3 | 1733.9 |
| 25° | 1768.5 | 1747.7 | 1727.0 | 1720.1 | 1713.1 | 1699.3 | 1685.5 | 1678.5 | 1668.2 | 1661.2 | 1654.3 |
| 27.5° | 1664.7 | 1643.9 | 1626.6 | 1616.3 | 1609.3 | 1599.0 | 1592.0 | 1585.1 | 1578.2 | 1571.3 | 1567.8 |
| 30° | 1554.0 | 1533.2 | 1519.4 | 1512.5 | 1505.5 | 1502.1 | 1491.7 | 1488.2 | 1484.8 | 1477.9 | 1481.3 |
| 32.5° | 1443.2 | 1425.9 | 1412.1 | 1401.7 | 1401.7 | 1394.8 | 1391.3 | 1391.3 | 1387.9 | 1387.9 | 1387.9 |
| 35° | 1322.0 | 1311.6 | 1301.3 | 1297.8 | 1294.3 | 1290.9 | 1287.4 | 1290.9 | 1287.4 | 1290.9 | 1294.3 |
| 37.5° | 1211.3 | 1200.9 | 1194.0 | 1190.5 | 1187.1 | 1190.5 | 1187.1 | 1187.1 | 1190.5 | 1197.5 | 1200.9 |
| 40° | 1097.1 | 1090.2 | 1083.3 | 1086.7 | 1083.3 | 1083.3 | 1083.3 | 1093.7 | 1097.1 | 1100.6 | 1104.0 |
| 42.5° | 989.8 | 982.9 | 979.5 | 979.5 | 982.9 | 979.5 | 986.4 | 989.8 | 996.8 | 1007.1 | 1014.1 |
| 45° | 886.0 | 882.6 | 882.6 | 886.0 | 882.6 | 889.5 | 889.5 | 896.4 | 906.8 | 913.7 | 920.6 |
| 47.5° | 789.0 | 789.0 | 789.0 | 792.5 | 792.5 | 796.0 | 802.9 | 806.5 | 813.4 | 820.3 | 827.2 |
| 50° | 699.1 | 702.5 | 706.0 | 706.0 | 706.0 | 712.9 | 719.8 | 723.3 | 726.8 | 730.2 | 740.6 |
| 52.5° | 619.5 | 623.0 | 623.0 | 626.4 | 629.9 | 633.3 | 636.8 | 643.7 | 647.2 | 654.1 | 657.6 |
| 55° | 543.4 | 543.4 | 550.3 | 553.7 | 553.7 | 553.7 | 560.7 | 560.7 | 567.6 | 571.0 | 578.0 |
| 57.5° | 470.7 | 474.2 | 474.2 | 477.6 | 477.6 | 481.1 | 484.5 | 488.0 | 491.5 | 494.9 | 498.4 |
| 60° | 401.5 | 401.5 | 401.5 | 405.0 | 408.4 | 411.9 | 408.4 | 415.3 | 415.3 | 422.3 | 425.7 |
| 62.5° | 335.8 | 339.2 | 339.2 | 339.2 | 339.2 | 339.2 | 339.2 | 342.7 | 346.1 | 349.6 | 353.1 |
| 65° | 273.5 | 273.5 | 273.5 | 270.0 | 273.5 | 270.0 | 273.5 | 276.9 | 276.9 | 280.4 | 283.9 |
| 67.5° | 211.1 | 211.1 | 204.2 | 204.2 | 207.6 | 207.6 | 207.6 | 207.6 | 204.2 | 211.1 | 211.1 |
| 70° | 152.2 | 148.8 | 145.3 | 141.9 | 141.9 | 138.4 | 138.4 | 134.9 | 134.9 | 134.9 | 134.9 |
| 72.5° | 100.3 | 93.4 | 86.5 | 83.0 | 79.6 | 79.6 | 72.7 | 69.2 | 72.7 | 72.7 | 72.7 |
| 75° | 51.9 | 45.0 | 41.5 | 38.1 | 34.6 | 34.6 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 |
| 77.5° | 20.8 | 17.3 | 13.8 | 13.8 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 80° | 6.9 | 6.9 | 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: P585082

CATALOG NUMBER: HCC8W60D010BZ-HM86080830-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 | 2315.3 |
| 2.5° | 2270.4 | 2270.4 | 2266.9 | 2270.4 | 2263.4 | 2266.9 | 2263.4 | 2263.4 |
| 5° | 2218.4 | 2211.5 | 2211.5 | 2211.5 | 2208.1 | 2208.1 | 2204.6 | 2204.6 |
| 7.5° | 2156.2 | 2152.7 | 2149.2 | 2145.8 | 2142.3 | 2138.9 | 2138.9 | 2138.9 |
| 10° | 2093.9 | 2087.0 | 2087.0 | 2083.5 | 2076.6 | 2073.1 | 2073.1 | 2073.1 |
| 12.5° | 2021.2 | 2017.8 | 2014.3 | 2014.3 | 2000.5 | 2003.9 | 2000.5 | 2000.5 |
| 15° | 1952.0 | 1948.6 | 1948.6 | 1938.2 | 1931.3 | 1931.3 | 1931.3 | 1927.8 |
| 17.5° | 1879.2 | 1875.8 | 1872.3 | 1865.4 | 1858.5 | 1858.5 | 1855.0 | 1858.5 |
| 20° | 1803.1 | 1799.7 | 1792.7 | 1792.7 | 1789.3 | 1785.8 | 1778.9 | 1782.3 |
| 22.5° | 1727.0 | 1720.1 | 1716.6 | 1716.6 | 1713.1 | 1713.1 | 1706.2 | 1706.2 |
| 25° | 1647.4 | 1643.9 | 1640.5 | 1643.9 | 1637.0 | 1637.0 | 1630.1 | 1630.1 |
| 27.5° | 1564.4 | 1560.9 | 1560.9 | 1560.9 | 1557.4 | 1560.9 | 1557.4 | 1557.4 |
| 30° | 1481.3 | 1481.3 | 1477.9 | 1477.9 | 1481.3 | 1477.9 | 1481.3 | 1484.8 |
| 32.5° | 1391.3 | 1391.3 | 1394.8 | 1394.8 | 1398.3 | 1398.3 | 1398.3 | 1398.3 |
| 35° | 1297.8 | 1304.7 | 1304.7 | 1308.2 | 1311.6 | 1315.1 | 1315.1 | 1318.6 |
| 37.5° | 1211.3 | 1214.8 | 1218.2 | 1221.7 | 1228.6 | 1228.6 | 1228.6 | 1228.6 |
| 40° | 1117.9 | 1121.3 | 1128.3 | 1124.8 | 1138.6 | 1142.1 | 1138.6 | 1138.6 |
| 42.5° | 1021.0 | 1027.9 | 1031.4 | 1038.3 | 1041.8 | 1048.7 | 1052.1 | 1052.1 |
| 45° | 931.0 | 934.5 | 941.4 | 948.3 | 951.8 | 962.2 | 962.2 | 962.2 |
| 47.5° | 837.6 | 844.5 | 848.0 | 854.9 | 858.4 | 868.7 | 872.2 | 868.7 |
| 50° | 747.5 | 754.4 | 761.4 | 761.4 | 771.7 | 775.2 | 782.1 | 785.6 |
| 52.5° | 661.0 | 664.5 | 671.4 | 674.9 | 681.8 | 688.7 | 692.2 | 695.6 |
| 55° | 578.0 | 581.4 | 588.3 | 588.3 | 598.7 | 602.2 | 609.1 | 609.1 |
| 57.5° | 501.8 | 505.3 | 512.2 | 508.8 | 515.7 | 522.6 | 522.6 | 519.1 |
| 60° | 429.2 | 429.2 | 429.2 | 436.1 | 439.6 | 443.0 | 446.5 | 446.5 |
| 62.5° | 353.1 | 360.0 | 363.4 | 363.4 | 366.9 | 370.4 | 370.4 | 366.9 |
| 65° | 283.9 | 290.8 | 294.2 | 294.2 | 297.7 | 297.7 | 297.7 | 301.2 |
| 67.5° | 214.5 | 214.5 | 214.5 | 218.0 | 214.5 | 214.5 | 214.5 | 214.5 |
| 70° | 134.9 | 134.9 | 134.9 | 134.9 | 131.5 | 134.9 | 134.9 | 138.4 |
| 72.5° | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 |
| 75° | 31.1 | 31.1 | 31.1 | 34.6 | 31.1 | 31.1 | 31.1 | 31.1 |
| 77.5° | 13.8 | 10.4 | 13.8 | 13.8 | 10.4 | 10.4 | 10.4 | 10.4 |
| 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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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)