

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: P584675

Luminaire Tested: **HCC8W45D010BZ-HM82555830-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555830-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

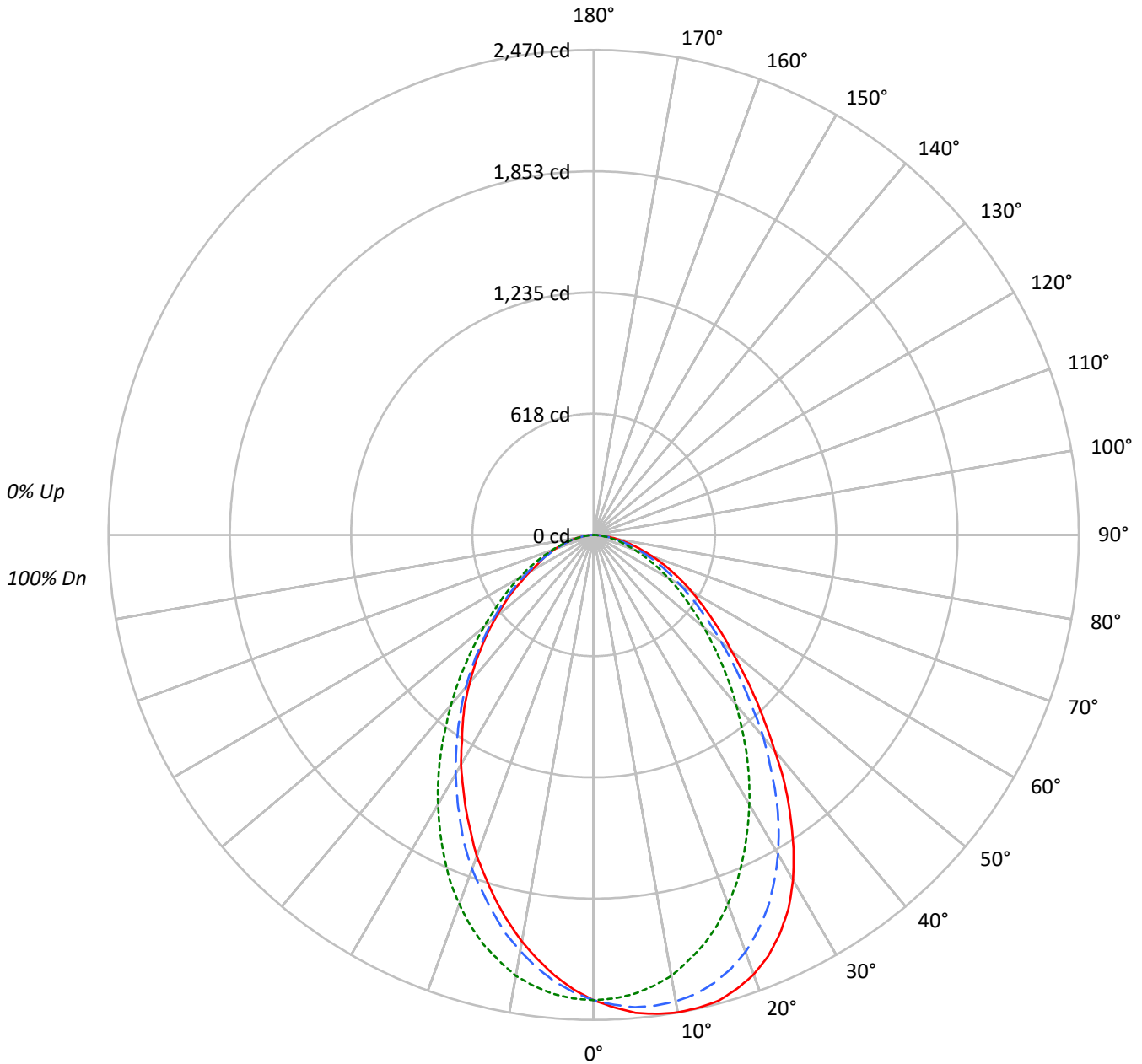
Lumens per Lamp: N/A
Luminaire Lumens: 4373.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584675
CATALOG NUMBER: HCC8W45D010BZ-HM82555830-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584675

CATALOG NUMBER: HCC8W45D010BZ-HM82555830-81WWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 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 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 73076 | 73076 | 73076 |
| 5° | 75646 | 72659 | 69771 |
| 10° | 77325 | 71385 | 65849 |
| 15° | 78425 | 68982 | 61489 |
| 20° | 78189 | 65634 | 57086 |
| 25° | 76258 | 61373 | 52407 |
| 30° | 72242 | 56444 | 48087 |
| 35° | 65727 | 51079 | 43697 |
| 40° | 57728 | 45435 | 39477 |
| 45° | 50338 | 39968 | 35197 |
| 50° | 43809 | 35020 | 31005 |
| 55° | 39068 | 30768 | 26967 |
| 60° | 35499 | 26969 | 23004 |
| 65° | 31908 | 23458 | 20883 |
| 70° | 28409 | 19997 | 18843 |
| 75° | 24901 | 16859 | 16084 |
| 80° | 21114 | 13709 | 14277 |
| 85° | 15921 | 10260 | 11357 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 222.0 | 5.1 |
| 10°-20° | 611.6 | 14.0 |
| 20°-30° | 848.9 | 19.4 |
| 30°-40° | 877.7 | 20.1 |
| 40°-50° | 734.9 | 16.8 |
| 50°-60° | 533.5 | 12.2 |
| 60°-70° | 336.7 | 7.7 |
| 70°-80° | 166.8 | 3.8 |
| 80°-90° | 41.5 | 0.9 |
| 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° | 1682.5 | 38.5 |
| 0°-40° | 2560.2 | 58.5 |
| 0°-60° | 3828.7 | 87.5 |
| 0°-90° | 4373.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4373.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2370 | 2370 | 2370 | 2370 | 2370 | |
| 5° | 2444 | 2415 | 2347 | 2283 | 2254 | 234 |
| 15° | 2457 | 2363 | 2161 | 1987 | 1926 | 691 |
| 25° | 2241 | 2096 | 1804 | 1608 | 1540 | 1027 |
| 35° | 1746 | 1617 | 1357 | 1203 | 1161 | 1087 |
| 45° | 1154 | 1071 | 916 | 826 | 807 | 893 |
| 55° | 727 | 662 | 572 | 524 | 502 | 656 |
| 65° | 437 | 383 | 322 | 283 | 286 | 436 |
| 75° | 209 | 174 | 142 | 135 | 135 | 224 |
| 85° | 45 | 35 | 29 | 32 | 32 | 55 |
| 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° | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 |
| 2.5° | 2408.4 | 2408.4 | 2411.6 | 2408.4 | 2408.4 | 2408.4 | 2405.2 | 2405.2 | 2402.0 | 2402.0 | 2395.5 |
| 5° | 2443.8 | 2437.4 | 2443.8 | 2437.4 | 2437.4 | 2437.4 | 2434.1 | 2427.8 | 2424.5 | 2418.0 | 2414.9 |
| 7.5° | 2459.9 | 2456.6 | 2456.6 | 2453.4 | 2453.4 | 2450.2 | 2447.0 | 2443.8 | 2430.9 | 2427.8 | 2418.0 |
| 10° | 2469.5 | 2466.2 | 2466.2 | 2463.1 | 2456.6 | 2456.6 | 2450.2 | 2447.0 | 2430.9 | 2424.5 | 2411.6 |
| 12.5° | 2466.2 | 2466.2 | 2466.2 | 2463.1 | 2453.4 | 2450.2 | 2443.8 | 2434.1 | 2421.3 | 2408.4 | 2395.5 |
| 15° | 2456.6 | 2456.6 | 2450.2 | 2447.0 | 2437.4 | 2430.9 | 2427.8 | 2411.6 | 2398.8 | 2382.7 | 2363.4 |
| 17.5° | 2424.5 | 2424.5 | 2421.3 | 2414.9 | 2405.2 | 2398.8 | 2392.3 | 2376.3 | 2363.4 | 2337.7 | 2318.3 |
| 20° | 2382.7 | 2379.4 | 2376.3 | 2366.6 | 2356.9 | 2353.7 | 2344.1 | 2321.6 | 2305.5 | 2286.2 | 2260.5 |
| 22.5° | 2321.6 | 2318.3 | 2315.2 | 2308.7 | 2292.6 | 2286.2 | 2279.8 | 2263.7 | 2234.8 | 2215.4 | 2183.3 |
| 25° | 2241.3 | 2241.3 | 2234.8 | 2225.2 | 2209.0 | 2202.7 | 2192.9 | 2176.9 | 2151.2 | 2122.2 | 2096.5 |
| 27.5° | 2148.0 | 2144.7 | 2135.1 | 2128.6 | 2115.7 | 2106.1 | 2090.1 | 2070.8 | 2045.0 | 2022.6 | 1990.3 |
| 30° | 2028.9 | 2028.9 | 2022.6 | 2012.9 | 1996.8 | 1990.3 | 1977.6 | 1955.0 | 1929.4 | 1900.4 | 1877.9 |
| 32.5° | 1893.9 | 1893.9 | 1884.3 | 1877.9 | 1868.2 | 1852.2 | 1848.9 | 1823.2 | 1800.7 | 1778.2 | 1752.5 |
| 35° | 1746.0 | 1749.2 | 1742.8 | 1729.9 | 1713.9 | 1713.9 | 1707.4 | 1684.9 | 1659.2 | 1636.7 | 1617.4 |
| 37.5° | 1598.1 | 1588.5 | 1585.2 | 1578.9 | 1569.1 | 1556.3 | 1549.9 | 1540.3 | 1517.7 | 1501.7 | 1472.7 |
| 40° | 1434.1 | 1437.3 | 1430.9 | 1424.5 | 1421.2 | 1411.6 | 1408.4 | 1392.4 | 1376.3 | 1356.9 | 1344.0 |
| 42.5° | 1286.2 | 1286.2 | 1286.2 | 1279.7 | 1273.3 | 1263.7 | 1260.5 | 1250.8 | 1231.5 | 1218.6 | 1199.4 |
| 45° | 1154.3 | 1144.7 | 1144.7 | 1141.4 | 1138.3 | 1131.8 | 1122.2 | 1115.8 | 1103.0 | 1093.2 | 1070.7 |
| 47.5° | 1025.8 | 1029.0 | 1025.8 | 1022.5 | 1012.9 | 1009.7 | 1006.4 | 993.5 | 980.7 | 971.1 | 955.1 |
| 50° | 913.2 | 919.6 | 913.2 | 913.2 | 906.7 | 903.6 | 897.1 | 887.5 | 877.9 | 861.8 | 845.7 |
| 52.5° | 819.9 | 819.9 | 816.8 | 813.5 | 803.9 | 797.4 | 794.2 | 791.0 | 774.9 | 762.1 | 749.2 |
| 55° | 726.7 | 730.0 | 730.0 | 720.2 | 717.1 | 710.6 | 707.4 | 697.8 | 691.4 | 672.0 | 662.4 |
| 57.5° | 646.3 | 643.2 | 646.3 | 639.9 | 633.4 | 627.0 | 623.8 | 617.3 | 607.7 | 594.8 | 582.0 |
| 60° | 575.6 | 569.1 | 569.1 | 566.0 | 559.5 | 556.2 | 549.9 | 540.2 | 530.5 | 517.6 | 508.0 |
| 62.5° | 504.9 | 501.6 | 498.4 | 495.2 | 488.8 | 485.5 | 482.3 | 472.7 | 463.0 | 453.4 | 443.7 |
| 65° | 437.3 | 437.3 | 434.1 | 427.7 | 424.4 | 421.2 | 418.1 | 411.6 | 398.7 | 392.3 | 382.6 |
| 67.5° | 376.2 | 373.0 | 373.0 | 366.6 | 360.1 | 356.9 | 356.9 | 350.5 | 340.9 | 331.1 | 324.8 |
| 70° | 315.1 | 318.4 | 315.1 | 311.9 | 305.4 | 305.4 | 299.0 | 295.8 | 282.9 | 279.8 | 270.1 |
| 72.5° | 260.4 | 260.4 | 257.2 | 257.2 | 250.8 | 247.6 | 247.6 | 241.2 | 234.7 | 228.3 | 221.8 |
| 75° | 209.0 | 209.0 | 209.0 | 205.7 | 202.6 | 196.1 | 196.1 | 193.0 | 186.5 | 180.1 | 173.6 |
| 77.5° | 164.0 | 160.8 | 160.8 | 157.5 | 154.4 | 151.1 | 151.1 | 147.9 | 141.5 | 138.3 | 131.8 |
| 80° | 118.9 | 115.8 | 115.8 | 115.8 | 109.3 | 112.5 | 109.3 | 106.2 | 102.9 | 99.7 | 96.4 |
| 82.5° | 77.2 | 80.4 | 80.4 | 77.2 | 73.9 | 73.9 | 73.9 | 70.7 | 70.7 | 67.6 | 64.3 |
| 85° | 45.0 | 45.0 | 45.0 | 45.0 | 41.8 | 41.8 | 41.8 | 38.6 | 38.6 | 38.6 | 35.4 |
| 87.5° | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 |
| 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° | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 |
| 2.5° | 2395.5 | 2389.2 | 2385.9 | 2382.7 | 2382.7 | 2379.4 | 2376.3 | 2369.8 | 2369.8 | 2363.4 | 2360.2 |
| 5° | 2408.4 | 2398.8 | 2392.3 | 2385.9 | 2382.7 | 2376.3 | 2369.8 | 2360.2 | 2356.9 | 2347.3 | 2337.7 |
| 7.5° | 2411.6 | 2395.5 | 2389.2 | 2376.3 | 2369.8 | 2363.4 | 2350.6 | 2340.8 | 2328.1 | 2318.3 | 2305.5 |
| 10° | 2398.8 | 2385.9 | 2369.8 | 2353.7 | 2350.6 | 2340.8 | 2321.6 | 2308.7 | 2292.6 | 2279.8 | 2260.5 |
| 12.5° | 2379.4 | 2360.2 | 2344.1 | 2324.8 | 2315.2 | 2305.5 | 2286.2 | 2266.9 | 2244.4 | 2221.9 | 2202.7 |
| 15° | 2347.3 | 2324.8 | 2302.2 | 2279.8 | 2266.9 | 2257.3 | 2234.8 | 2212.3 | 2189.8 | 2160.8 | 2141.5 |
| 17.5° | 2299.1 | 2273.4 | 2250.9 | 2221.9 | 2209.0 | 2199.4 | 2170.4 | 2144.7 | 2115.7 | 2086.9 | 2067.5 |
| 20° | 2238.0 | 2205.8 | 2180.1 | 2148.0 | 2138.3 | 2122.2 | 2093.3 | 2064.4 | 2032.2 | 2000.1 | 1977.6 |
| 22.5° | 2157.6 | 2125.5 | 2096.5 | 2064.4 | 2048.3 | 2032.2 | 2003.2 | 1967.9 | 1935.7 | 1910.0 | 1887.5 |
| 25° | 2064.4 | 2035.4 | 2000.1 | 1971.1 | 1951.8 | 1932.5 | 1900.4 | 1871.4 | 1842.4 | 1803.8 | 1781.4 |
| 27.5° | 1961.5 | 1926.1 | 1900.4 | 1861.8 | 1842.4 | 1829.6 | 1794.2 | 1755.6 | 1729.9 | 1694.5 | 1668.8 |
| 30° | 1845.7 | 1813.6 | 1784.6 | 1746.0 | 1726.8 | 1713.9 | 1681.7 | 1646.3 | 1620.6 | 1585.2 | 1559.5 |
| 32.5° | 1723.5 | 1688.2 | 1652.8 | 1627.1 | 1604.5 | 1591.6 | 1556.3 | 1533.8 | 1501.7 | 1472.7 | 1443.7 |
| 35° | 1591.6 | 1556.3 | 1530.5 | 1495.2 | 1482.3 | 1469.5 | 1440.6 | 1411.6 | 1382.6 | 1356.9 | 1334.4 |
| 37.5° | 1450.2 | 1424.5 | 1395.5 | 1369.8 | 1360.2 | 1347.3 | 1311.9 | 1286.2 | 1263.7 | 1238.0 | 1218.6 |
| 40° | 1311.9 | 1289.4 | 1270.1 | 1244.4 | 1228.4 | 1218.6 | 1192.9 | 1170.4 | 1144.7 | 1128.7 | 1109.3 |
| 42.5° | 1186.5 | 1160.8 | 1141.4 | 1122.2 | 1106.1 | 1096.5 | 1074.0 | 1057.9 | 1038.6 | 1022.5 | 1000.0 |
| 45° | 1054.6 | 1041.9 | 1019.3 | 1003.3 | 993.5 | 980.7 | 964.7 | 945.3 | 929.3 | 916.5 | 900.4 |
| 47.5° | 938.9 | 926.1 | 910.0 | 890.7 | 884.2 | 874.6 | 858.5 | 845.7 | 832.8 | 819.9 | 803.9 |
| 50° | 832.8 | 816.8 | 803.9 | 791.0 | 784.6 | 774.9 | 758.8 | 752.5 | 742.7 | 730.0 | 720.2 |
| 52.5° | 736.3 | 723.5 | 710.6 | 694.5 | 691.4 | 684.9 | 675.3 | 662.4 | 652.8 | 646.3 | 639.9 |
| 55° | 649.5 | 636.7 | 627.0 | 614.2 | 610.9 | 604.6 | 591.7 | 585.2 | 578.8 | 572.3 | 566.0 |
| 57.5° | 572.3 | 559.5 | 546.6 | 540.2 | 533.7 | 527.4 | 524.1 | 514.5 | 508.0 | 504.9 | 498.4 |
| 60° | 501.6 | 488.8 | 479.1 | 469.4 | 466.3 | 463.0 | 456.6 | 450.2 | 443.7 | 437.3 | 434.1 |
| 62.5° | 434.1 | 421.2 | 414.8 | 408.3 | 402.0 | 402.0 | 395.5 | 389.1 | 382.6 | 379.5 | 373.0 |
| 65° | 373.0 | 366.6 | 356.9 | 347.3 | 344.0 | 344.0 | 334.4 | 331.1 | 328.0 | 321.5 | 315.1 |
| 67.5° | 315.1 | 308.7 | 299.0 | 295.8 | 292.7 | 289.4 | 286.2 | 279.8 | 273.3 | 270.1 | 263.7 |
| 70° | 263.7 | 257.2 | 250.8 | 247.6 | 244.3 | 241.2 | 234.7 | 231.6 | 225.1 | 221.8 | 218.6 |
| 72.5° | 212.2 | 209.0 | 202.6 | 199.4 | 196.1 | 193.0 | 189.7 | 186.5 | 180.1 | 176.9 | 173.6 |
| 75° | 170.4 | 167.2 | 160.8 | 157.5 | 154.4 | 154.4 | 151.1 | 144.7 | 141.5 | 141.5 | 138.3 |
| 77.5° | 128.7 | 125.4 | 122.2 | 118.9 | 115.8 | 115.8 | 112.5 | 109.3 | 106.2 | 106.2 | 102.9 |
| 80° | 93.3 | 90.1 | 86.8 | 86.8 | 86.8 | 83.6 | 80.4 | 80.4 | 77.2 | 77.2 | 73.9 |
| 82.5° | 61.1 | 61.1 | 57.8 | 57.8 | 57.8 | 54.7 | 54.7 | 51.5 | 51.5 | 51.5 | 51.5 |
| 85° | 35.4 | 35.4 | 35.4 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 29.0 | 32.1 |
| 87.5° | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | 12.9 | 12.9 | 12.9 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 |
| 2.5° | 2356.9 | 2353.7 | 2347.3 | 2347.3 | 2340.8 | 2340.8 | 2337.7 | 2334.5 | 2331.2 | 2328.1 | 2324.8 |
| 5° | 2334.5 | 2321.6 | 2315.2 | 2312.0 | 2305.5 | 2302.2 | 2292.6 | 2286.2 | 2283.0 | 2276.6 | 2270.1 |
| 7.5° | 2292.6 | 2279.8 | 2266.9 | 2263.7 | 2260.5 | 2247.6 | 2238.0 | 2228.3 | 2221.9 | 2215.4 | 2209.0 |
| 10° | 2244.4 | 2231.5 | 2215.4 | 2209.0 | 2202.7 | 2186.6 | 2173.7 | 2164.1 | 2151.2 | 2138.3 | 2135.1 |
| 12.5° | 2186.6 | 2167.2 | 2148.0 | 2141.5 | 2131.9 | 2115.7 | 2103.0 | 2086.9 | 2077.3 | 2061.1 | 2057.9 |
| 15° | 2119.0 | 2096.5 | 2080.4 | 2064.4 | 2057.9 | 2041.8 | 2019.3 | 2006.4 | 1987.2 | 1980.7 | 1964.7 |
| 17.5° | 2038.7 | 2016.2 | 1993.6 | 1987.2 | 1977.6 | 1955.0 | 1932.5 | 1916.4 | 1897.1 | 1887.5 | 1877.9 |
| 20° | 1955.0 | 1926.1 | 1903.5 | 1897.1 | 1884.3 | 1865.0 | 1842.4 | 1826.4 | 1810.3 | 1791.1 | 1781.4 |
| 22.5° | 1858.5 | 1826.4 | 1807.1 | 1791.1 | 1787.8 | 1765.4 | 1739.6 | 1726.8 | 1713.9 | 1697.8 | 1684.9 |
| 25° | 1752.5 | 1723.5 | 1701.0 | 1688.2 | 1681.7 | 1662.4 | 1643.1 | 1627.1 | 1607.7 | 1598.1 | 1582.0 |
| 27.5° | 1643.1 | 1623.8 | 1594.9 | 1582.0 | 1572.4 | 1556.3 | 1533.8 | 1524.2 | 1504.8 | 1491.9 | 1482.3 |
| 30° | 1537.0 | 1508.1 | 1491.9 | 1475.9 | 1466.2 | 1450.2 | 1430.9 | 1421.2 | 1405.1 | 1392.4 | 1382.6 |
| 32.5° | 1421.2 | 1402.0 | 1379.4 | 1373.0 | 1360.2 | 1344.0 | 1331.2 | 1315.2 | 1302.3 | 1289.4 | 1286.2 |
| 35° | 1315.2 | 1289.4 | 1267.0 | 1260.5 | 1250.8 | 1234.7 | 1228.4 | 1218.6 | 1202.6 | 1199.4 | 1186.5 |
| 37.5° | 1199.4 | 1186.5 | 1160.8 | 1151.2 | 1147.9 | 1135.1 | 1122.2 | 1115.8 | 1106.1 | 1096.5 | 1093.2 |
| 40° | 1090.1 | 1074.0 | 1061.1 | 1051.5 | 1045.0 | 1035.4 | 1022.5 | 1019.3 | 1012.9 | 1000.0 | 996.8 |
| 42.5° | 987.2 | 971.1 | 958.2 | 955.1 | 945.3 | 935.7 | 929.3 | 919.6 | 916.5 | 913.2 | 906.7 |
| 45° | 887.5 | 877.9 | 865.0 | 861.8 | 858.5 | 845.7 | 839.3 | 832.8 | 826.4 | 823.2 | 816.8 |
| 47.5° | 797.4 | 787.8 | 778.2 | 774.9 | 768.5 | 765.3 | 755.6 | 752.5 | 742.7 | 739.6 | 736.3 |
| 50° | 710.6 | 704.2 | 697.8 | 694.5 | 688.1 | 684.9 | 678.5 | 672.0 | 665.6 | 662.4 | 659.2 |
| 52.5° | 633.4 | 627.0 | 620.6 | 617.3 | 614.2 | 607.7 | 601.3 | 594.8 | 591.7 | 588.5 | 585.2 |
| 55° | 559.5 | 553.1 | 549.9 | 546.6 | 543.5 | 540.2 | 530.5 | 527.4 | 524.1 | 520.9 | 514.5 |
| 57.5° | 492.0 | 485.5 | 479.1 | 479.1 | 475.9 | 472.7 | 466.3 | 459.8 | 459.8 | 453.4 | 446.9 |
| 60° | 430.8 | 424.4 | 418.1 | 414.8 | 411.6 | 405.2 | 402.0 | 398.7 | 395.5 | 392.3 | 385.9 |
| 62.5° | 366.6 | 363.4 | 356.9 | 356.9 | 350.5 | 347.3 | 344.0 | 340.9 | 337.6 | 331.1 | 328.0 |
| 65° | 311.9 | 308.7 | 302.3 | 299.0 | 299.0 | 295.8 | 289.4 | 286.2 | 282.9 | 282.9 | 279.8 |
| 67.5° | 260.4 | 257.2 | 250.8 | 247.6 | 247.6 | 244.3 | 241.2 | 241.2 | 238.0 | 234.7 | 238.0 |
| 70° | 215.5 | 209.0 | 209.0 | 205.7 | 205.7 | 202.6 | 199.4 | 199.4 | 199.4 | 202.6 | 202.6 |
| 72.5° | 170.4 | 167.2 | 164.0 | 164.0 | 164.0 | 164.0 | 160.8 | 160.8 | 164.0 | 167.2 | 167.2 |
| 75° | 135.0 | 131.8 | 131.8 | 131.8 | 128.7 | 128.7 | 131.8 | 131.8 | 135.0 | 135.0 | 135.0 |
| 77.5° | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 102.9 | 102.9 | 106.2 | 106.2 | 106.2 |
| 80° | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 80.4 |
| 82.5° | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 54.7 | 54.7 | 54.7 | 54.7 |
| 85° | 29.0 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 87.5° | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |
| 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: P584675

CATALOG NUMBER: HCC8W45D010BZ-HM82555830-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 | 2369.8 |
| 2.5° | 2321.6 | 2321.6 | 2321.6 | 2324.8 | 2318.3 | 2318.3 | 2318.3 | 2318.3 |
| 5° | 2266.9 | 2263.7 | 2260.5 | 2263.7 | 2257.3 | 2257.3 | 2254.0 | 2254.0 |
| 7.5° | 2199.4 | 2196.2 | 2192.9 | 2192.9 | 2186.6 | 2186.6 | 2183.3 | 2180.1 |
| 10° | 2125.5 | 2119.0 | 2122.2 | 2115.7 | 2112.6 | 2109.4 | 2106.1 | 2103.0 |
| 12.5° | 2045.0 | 2038.7 | 2035.4 | 2028.9 | 2022.6 | 2019.3 | 2022.6 | 2016.2 |
| 15° | 1958.2 | 1948.6 | 1945.4 | 1939.0 | 1932.5 | 1929.4 | 1929.4 | 1926.1 |
| 17.5° | 1861.8 | 1855.3 | 1852.2 | 1845.7 | 1842.4 | 1836.1 | 1832.8 | 1829.6 |
| 20° | 1771.7 | 1755.6 | 1758.9 | 1752.5 | 1749.2 | 1736.4 | 1736.4 | 1739.6 |
| 22.5° | 1672.1 | 1662.4 | 1655.9 | 1649.6 | 1646.3 | 1639.9 | 1639.9 | 1636.7 |
| 25° | 1572.4 | 1562.8 | 1559.5 | 1553.1 | 1549.9 | 1543.4 | 1540.3 | 1540.3 |
| 27.5° | 1475.9 | 1463.1 | 1463.1 | 1456.6 | 1450.2 | 1447.0 | 1443.7 | 1440.6 |
| 30° | 1373.0 | 1363.4 | 1360.2 | 1360.2 | 1356.9 | 1356.9 | 1347.3 | 1350.5 |
| 32.5° | 1276.6 | 1270.1 | 1267.0 | 1260.5 | 1260.5 | 1257.2 | 1257.2 | 1247.6 |
| 35° | 1180.0 | 1170.4 | 1173.7 | 1167.3 | 1164.0 | 1160.8 | 1164.0 | 1160.8 |
| 37.5° | 1086.8 | 1080.5 | 1080.5 | 1074.0 | 1074.0 | 1070.7 | 1067.5 | 1074.0 |
| 40° | 993.5 | 990.4 | 987.2 | 983.9 | 987.2 | 983.9 | 977.5 | 980.7 |
| 42.5° | 900.4 | 900.4 | 897.1 | 897.1 | 893.9 | 893.9 | 893.9 | 893.9 |
| 45° | 816.8 | 813.5 | 813.5 | 810.3 | 810.3 | 810.3 | 810.3 | 807.1 |
| 47.5° | 733.1 | 730.0 | 730.0 | 730.0 | 726.7 | 726.7 | 723.5 | 726.7 |
| 50° | 652.8 | 652.8 | 649.5 | 649.5 | 652.8 | 649.5 | 646.3 | 646.3 |
| 52.5° | 578.8 | 578.8 | 575.6 | 575.6 | 572.3 | 569.1 | 572.3 | 572.3 |
| 55° | 511.3 | 508.0 | 504.9 | 504.9 | 501.6 | 498.4 | 498.4 | 501.6 |
| 57.5° | 446.9 | 443.7 | 440.6 | 440.6 | 434.1 | 430.8 | 430.8 | 430.8 |
| 60° | 385.9 | 379.5 | 379.5 | 376.2 | 376.2 | 373.0 | 373.0 | 373.0 |
| 62.5° | 328.0 | 324.8 | 324.8 | 324.8 | 324.8 | 321.5 | 321.5 | 321.5 |
| 65° | 279.8 | 279.8 | 279.8 | 282.9 | 282.9 | 286.2 | 286.2 | 286.2 |
| 67.5° | 241.2 | 244.3 | 244.3 | 244.3 | 247.6 | 247.6 | 247.6 | 244.3 |
| 70° | 205.7 | 205.7 | 205.7 | 209.0 | 209.0 | 209.0 | 209.0 | 209.0 |
| 72.5° | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 |
| 75° | 135.0 | 138.3 | 138.3 | 138.3 | 135.0 | 138.3 | 138.3 | 135.0 |
| 77.5° | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 |
| 80° | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 |
| 82.5° | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 |
| 85° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 87.5° | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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(END OF REPORT)