

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: P584674

Luminaire Tested: **HCC8W45D010MB-HM82555830-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584674
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: HCC8W45D010MB-HM82555830-81WWBB
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

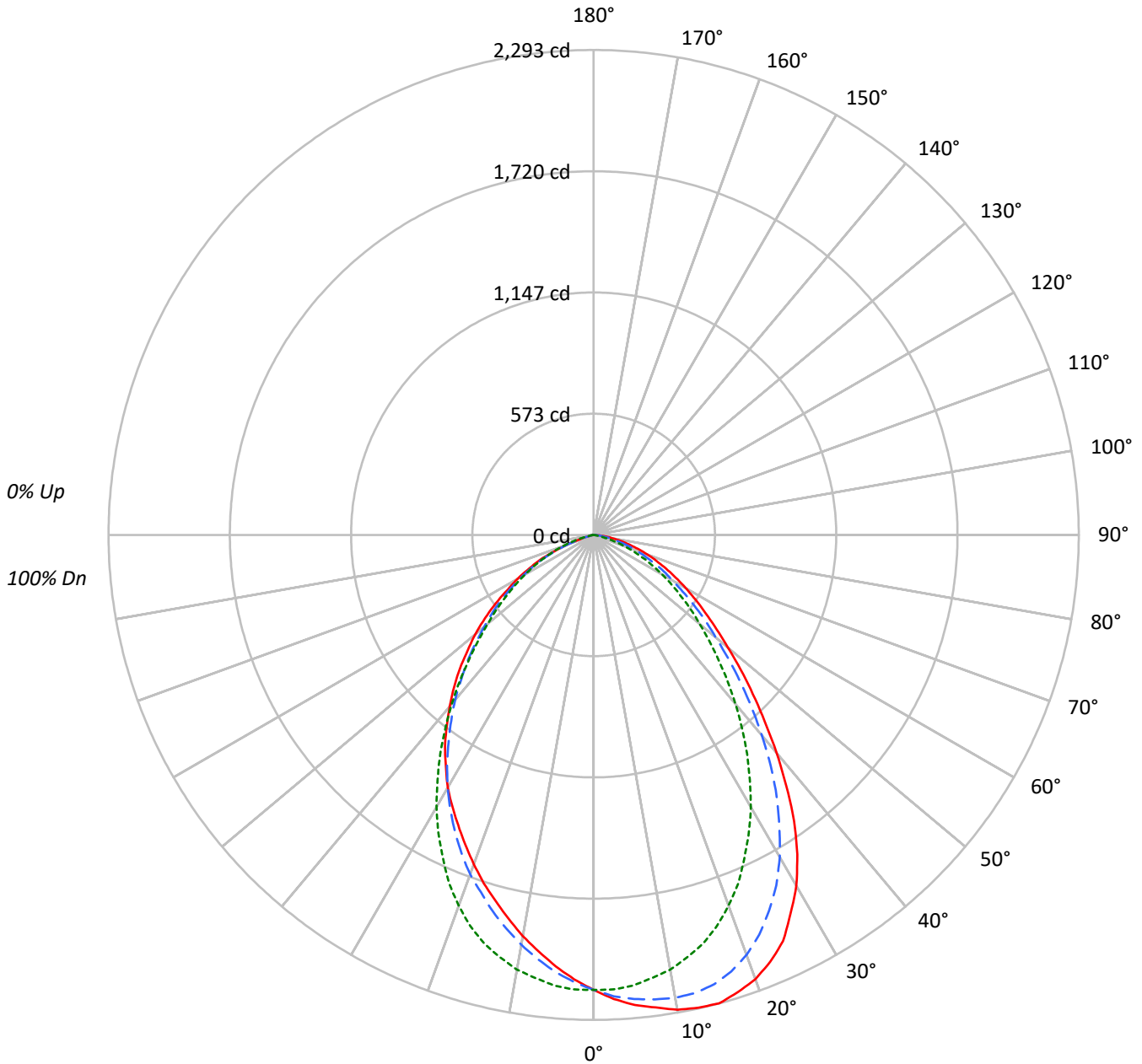
Lumens per Lamp: N/A
Luminaire Lumens: 4007.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584674
CATALOG NUMBER: HCC8W45D010MB-HM82555830-81WWBB

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 66335 | 66335 | 66335 |
| 5° | 69074 | 66192 | 63403 |
| 10° | 71385 | 65345 | 60310 |
| 15° | 73189 | 63851 | 57179 |
| 20° | 73336 | 61201 | 54342 |
| 25° | 72097 | 57327 | 51530 |
| 30° | 68237 | 52897 | 49116 |
| 35° | 62218 | 47571 | 46118 |
| 40° | 54105 | 41941 | 42585 |
| 45° | 46418 | 36318 | 38982 |
| 50° | 39645 | 31317 | 35020 |
| 55° | 34746 | 26967 | 30429 |
| 60° | 30935 | 23004 | 25582 |
| 65° | 27449 | 18767 | 20416 |
| 70° | 24352 | 13921 | 11604 |
| 75° | 20302 | 7280 | 3455 |
| 80° | 16000 | 2291 | 568 |
| 85° | 11357 | 1132 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.7 | 5.1 |
| 10°-20° | 568.1 | 14.2 |
| 20°-30° | 804.1 | 20.1 |
| 30°-40° | 841.3 | 21.0 |
| 40°-50° | 701.7 | 17.5 |
| 50°-60° | 497.6 | 12.4 |
| 60°-70° | 286.6 | 7.2 |
| 70°-80° | 92.2 | 2.3 |
| 80°-90° | 12.7 | 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° | 1575.0 | 39.3 |
| 0°-40° | 2416.2 | 60.3 |
| 0°-60° | 3615.5 | 90.2 |
| 0°-90° | 4007.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4007.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2151 | 2151 | 2151 | 2151 | 2151 | |
| 5° | 2232 | 2203 | 2138 | 2074 | 2048 | 214 |
| 15° | 2293 | 2199 | 2000 | 1842 | 1791 | 645 |
| 25° | 2119 | 1962 | 1685 | 1550 | 1514 | 967 |
| 35° | 1653 | 1508 | 1264 | 1196 | 1225 | 1025 |
| 45° | 1064 | 978 | 833 | 842 | 894 | 825 |
| 55° | 646 | 579 | 502 | 527 | 566 | 584 |
| 65° | 376 | 315 | 257 | 257 | 280 | 376 |
| 75° | 170 | 125 | 61 | 29 | 29 | 185 |
| 85° | 32 | 16 | 3 | 0 | 0 | 40 |
| 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° | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 |
| 2.5° | 2196.2 | 2193.0 | 2189.8 | 2193.0 | 2189.8 | 2193.0 | 2189.8 | 2189.8 | 2186.6 | 2183.3 | 2183.3 |
| 5° | 2231.5 | 2228.3 | 2228.3 | 2228.3 | 2225.2 | 2221.9 | 2221.9 | 2218.7 | 2212.3 | 2209.1 | 2202.7 |
| 7.5° | 2254.0 | 2257.3 | 2257.3 | 2257.3 | 2250.9 | 2250.9 | 2244.4 | 2238.0 | 2231.5 | 2225.2 | 2215.4 |
| 10° | 2279.8 | 2279.8 | 2276.6 | 2273.4 | 2266.9 | 2263.8 | 2260.5 | 2254.0 | 2244.4 | 2231.5 | 2221.9 |
| 12.5° | 2289.5 | 2289.5 | 2286.2 | 2279.8 | 2276.6 | 2273.4 | 2270.1 | 2260.5 | 2247.7 | 2231.5 | 2218.7 |
| 15° | 2292.6 | 2286.2 | 2283.0 | 2279.8 | 2273.4 | 2263.8 | 2263.8 | 2250.9 | 2234.8 | 2215.4 | 2199.4 |
| 17.5° | 2266.9 | 2270.1 | 2263.8 | 2257.3 | 2247.7 | 2241.3 | 2231.5 | 2221.9 | 2202.7 | 2180.1 | 2164.1 |
| 20° | 2234.8 | 2231.5 | 2228.3 | 2218.7 | 2205.8 | 2202.7 | 2193.0 | 2176.9 | 2160.8 | 2135.1 | 2112.6 |
| 22.5° | 2183.3 | 2180.1 | 2173.7 | 2167.2 | 2154.4 | 2148.0 | 2138.4 | 2119.0 | 2096.5 | 2070.8 | 2045.1 |
| 25° | 2119.0 | 2112.6 | 2103.0 | 2090.1 | 2080.4 | 2074.0 | 2061.2 | 2041.8 | 2016.2 | 1987.2 | 1961.5 |
| 27.5° | 2016.2 | 2025.8 | 2019.3 | 2000.1 | 1990.5 | 1977.6 | 1974.3 | 1948.6 | 1926.1 | 1897.2 | 1868.2 |
| 30° | 1916.4 | 1916.4 | 1906.8 | 1897.2 | 1881.0 | 1871.4 | 1858.6 | 1839.3 | 1816.7 | 1781.4 | 1758.9 |
| 32.5° | 1791.1 | 1787.9 | 1775.0 | 1771.7 | 1758.9 | 1739.6 | 1736.4 | 1710.7 | 1688.2 | 1662.4 | 1633.5 |
| 35° | 1652.8 | 1646.3 | 1633.5 | 1623.8 | 1617.4 | 1607.7 | 1598.1 | 1575.6 | 1553.1 | 1527.4 | 1508.1 |
| 37.5° | 1495.2 | 1495.2 | 1492.1 | 1475.9 | 1469.5 | 1463.1 | 1453.5 | 1430.9 | 1418.0 | 1392.4 | 1373.0 |
| 40° | 1344.1 | 1340.9 | 1331.2 | 1328.0 | 1321.6 | 1311.9 | 1305.5 | 1292.6 | 1273.3 | 1254.1 | 1234.8 |
| 42.5° | 1196.2 | 1199.4 | 1186.5 | 1189.8 | 1176.9 | 1170.4 | 1167.3 | 1147.9 | 1138.3 | 1119.0 | 1103.0 |
| 45° | 1064.4 | 1061.1 | 1054.6 | 1051.5 | 1045.0 | 1038.6 | 1032.2 | 1022.5 | 1006.4 | 987.2 | 977.5 |
| 47.5° | 942.2 | 932.5 | 932.5 | 929.3 | 926.1 | 913.2 | 910.0 | 900.4 | 890.7 | 871.4 | 858.5 |
| 50° | 826.4 | 826.4 | 826.4 | 823.2 | 813.5 | 810.3 | 803.9 | 794.2 | 784.6 | 771.7 | 752.5 |
| 52.5° | 733.1 | 733.1 | 733.1 | 730.0 | 717.1 | 713.9 | 710.6 | 697.8 | 684.9 | 675.3 | 662.4 |
| 55° | 646.3 | 649.5 | 646.3 | 639.9 | 630.3 | 630.3 | 620.6 | 614.2 | 601.3 | 591.7 | 578.8 |
| 57.5° | 572.3 | 572.3 | 566.0 | 562.7 | 556.2 | 553.1 | 546.6 | 540.2 | 524.1 | 514.5 | 498.4 |
| 60° | 501.6 | 498.4 | 498.4 | 492.0 | 485.5 | 479.2 | 475.9 | 466.3 | 459.8 | 443.7 | 430.8 |
| 62.5° | 437.3 | 437.3 | 430.8 | 430.8 | 418.1 | 418.1 | 414.8 | 405.2 | 395.5 | 379.5 | 373.0 |
| 65° | 376.2 | 376.2 | 373.0 | 369.7 | 360.1 | 356.9 | 353.7 | 344.0 | 334.4 | 324.8 | 315.1 |
| 67.5° | 321.5 | 321.5 | 315.1 | 311.9 | 305.4 | 302.3 | 295.8 | 289.4 | 279.8 | 270.1 | 260.4 |
| 70° | 270.1 | 266.9 | 263.7 | 260.4 | 254.1 | 250.8 | 244.3 | 238.0 | 228.3 | 221.8 | 212.2 |
| 72.5° | 218.6 | 218.6 | 215.5 | 209.0 | 205.7 | 202.6 | 199.4 | 193.0 | 183.3 | 173.6 | 167.2 |
| 75° | 170.4 | 170.4 | 170.4 | 164.0 | 157.5 | 154.4 | 154.4 | 147.9 | 141.5 | 131.8 | 125.4 |
| 77.5° | 131.8 | 128.7 | 125.4 | 125.4 | 118.9 | 115.8 | 112.5 | 109.3 | 99.7 | 96.4 | 90.1 |
| 80° | 90.1 | 93.3 | 90.1 | 86.8 | 83.6 | 80.4 | 80.4 | 73.9 | 70.7 | 64.3 | 57.8 |
| 82.5° | 61.1 | 57.8 | 57.8 | 54.7 | 54.7 | 51.5 | 51.5 | 45.0 | 41.8 | 38.6 | 35.4 |
| 85° | 32.1 | 32.1 | 29.0 | 29.0 | 29.0 | 25.7 | 25.7 | 22.5 | 22.5 | 19.2 | 16.1 |
| 87.5° | 9.6 | 9.6 | 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° | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 |
| 2.5° | 2180.1 | 2173.7 | 2170.5 | 2170.5 | 2167.2 | 2164.1 | 2160.8 | 2157.6 | 2151.2 | 2151.2 | 2144.7 |
| 5° | 2196.2 | 2189.8 | 2186.6 | 2176.9 | 2170.5 | 2170.5 | 2157.6 | 2154.4 | 2144.7 | 2138.4 | 2131.9 |
| 7.5° | 2209.1 | 2196.2 | 2186.6 | 2176.9 | 2170.5 | 2164.1 | 2151.2 | 2138.4 | 2125.5 | 2112.6 | 2106.1 |
| 10° | 2209.1 | 2196.2 | 2180.1 | 2164.1 | 2157.6 | 2151.2 | 2135.1 | 2115.9 | 2099.8 | 2086.9 | 2070.8 |
| 12.5° | 2202.7 | 2183.3 | 2164.1 | 2151.2 | 2138.4 | 2128.6 | 2109.4 | 2090.1 | 2070.8 | 2045.1 | 2032.2 |
| 15° | 2183.3 | 2157.6 | 2138.4 | 2115.9 | 2106.1 | 2090.1 | 2074.0 | 2045.1 | 2022.6 | 2000.1 | 1984.0 |
| 17.5° | 2144.7 | 2112.6 | 2090.1 | 2067.5 | 2051.5 | 2041.8 | 2016.2 | 1990.5 | 1964.7 | 1939.0 | 1919.6 |
| 20° | 2086.9 | 2057.9 | 2032.2 | 2003.2 | 1990.5 | 1977.6 | 1945.4 | 1919.6 | 1893.9 | 1865.0 | 1845.7 |
| 22.5° | 2016.2 | 1987.2 | 1951.9 | 1929.4 | 1910.0 | 1893.9 | 1865.0 | 1836.1 | 1810.3 | 1784.6 | 1758.9 |
| 25° | 1929.4 | 1900.4 | 1868.2 | 1832.8 | 1820.0 | 1804.0 | 1771.7 | 1742.8 | 1713.9 | 1684.9 | 1662.4 |
| 27.5° | 1836.1 | 1797.5 | 1771.7 | 1733.1 | 1720.3 | 1704.3 | 1668.8 | 1636.7 | 1611.0 | 1588.5 | 1562.8 |
| 30° | 1723.5 | 1694.6 | 1659.2 | 1623.8 | 1611.0 | 1594.9 | 1566.0 | 1537.0 | 1511.3 | 1485.6 | 1459.8 |
| 32.5° | 1601.4 | 1572.4 | 1537.0 | 1511.3 | 1492.1 | 1479.2 | 1450.2 | 1424.5 | 1398.8 | 1373.0 | 1350.5 |
| 35° | 1472.7 | 1440.6 | 1414.9 | 1389.1 | 1373.0 | 1356.9 | 1328.0 | 1305.5 | 1286.2 | 1263.7 | 1241.2 |
| 37.5° | 1340.9 | 1318.3 | 1292.6 | 1263.7 | 1247.6 | 1234.8 | 1212.3 | 1186.5 | 1170.4 | 1151.2 | 1135.1 |
| 40° | 1212.3 | 1186.5 | 1164.0 | 1138.3 | 1125.4 | 1115.8 | 1093.2 | 1074.0 | 1057.9 | 1041.9 | 1032.2 |
| 42.5° | 1080.5 | 1057.9 | 1035.4 | 1019.3 | 1009.7 | 1000.0 | 983.9 | 961.4 | 951.8 | 935.7 | 926.1 |
| 45° | 958.2 | 939.0 | 922.8 | 900.4 | 893.9 | 887.5 | 868.1 | 852.1 | 842.4 | 832.8 | 826.4 |
| 47.5° | 842.4 | 829.7 | 810.3 | 797.4 | 787.8 | 781.3 | 768.5 | 755.6 | 746.0 | 739.6 | 733.1 |
| 50° | 742.7 | 726.7 | 713.9 | 701.0 | 694.5 | 684.9 | 672.0 | 665.6 | 659.2 | 652.8 | 652.8 |
| 52.5° | 649.5 | 633.4 | 620.6 | 610.9 | 604.6 | 598.1 | 588.5 | 585.2 | 578.8 | 578.8 | 575.6 |
| 55° | 562.7 | 553.1 | 540.2 | 527.4 | 524.1 | 520.9 | 514.5 | 508.0 | 504.9 | 501.6 | 504.9 |
| 57.5° | 488.8 | 479.2 | 466.3 | 456.6 | 453.4 | 450.2 | 446.9 | 440.6 | 437.3 | 437.3 | 437.3 |
| 60° | 421.2 | 411.6 | 402.0 | 392.3 | 392.3 | 385.9 | 382.6 | 379.5 | 376.2 | 373.0 | 373.0 |
| 62.5° | 360.1 | 350.5 | 340.9 | 334.4 | 331.3 | 328.0 | 321.5 | 318.4 | 315.1 | 315.1 | 311.9 |
| 65° | 305.4 | 292.7 | 289.4 | 279.8 | 276.6 | 273.3 | 270.1 | 263.7 | 260.4 | 257.2 | 254.1 |
| 67.5° | 250.8 | 244.3 | 234.7 | 228.3 | 225.1 | 221.8 | 218.6 | 212.2 | 209.0 | 205.7 | 199.4 |
| 70° | 202.6 | 196.1 | 189.7 | 183.3 | 180.1 | 176.9 | 170.4 | 164.0 | 160.8 | 154.4 | 144.7 |
| 72.5° | 157.5 | 151.1 | 144.7 | 138.3 | 135.0 | 131.8 | 125.4 | 118.9 | 112.5 | 106.2 | 99.7 |
| 75° | 118.9 | 112.5 | 102.9 | 96.4 | 93.3 | 93.3 | 83.6 | 77.2 | 70.7 | 61.1 | 54.7 |
| 77.5° | 83.6 | 73.9 | 70.7 | 64.3 | 61.1 | 54.7 | 48.2 | 41.8 | 35.4 | 32.1 | 25.7 |
| 80° | 54.7 | 48.2 | 41.8 | 38.6 | 35.4 | 32.1 | 29.0 | 22.5 | 16.1 | 12.9 | 9.6 |
| 82.5° | 32.1 | 29.0 | 25.7 | 22.5 | 19.2 | 16.1 | 12.9 | 12.9 | 9.6 | 6.5 | 3.2 |
| 85° | 16.1 | 12.9 | 9.6 | 9.6 | 6.5 | 6.5 | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 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° | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 |
| 2.5° | 2141.5 | 2138.4 | 2135.1 | 2131.9 | 2131.9 | 2125.5 | 2125.5 | 2122.2 | 2115.9 | 2112.6 | 2112.6 |
| 5° | 2122.2 | 2112.6 | 2106.1 | 2103.0 | 2099.8 | 2090.1 | 2086.9 | 2080.4 | 2074.0 | 2067.5 | 2064.4 |
| 7.5° | 2093.3 | 2077.3 | 2070.8 | 2067.5 | 2057.9 | 2048.3 | 2041.8 | 2032.2 | 2022.6 | 2012.9 | 2009.7 |
| 10° | 2057.9 | 2041.8 | 2025.8 | 2019.3 | 2009.7 | 2003.2 | 1990.5 | 1977.6 | 1967.9 | 1958.2 | 1948.6 |
| 12.5° | 2012.9 | 1993.6 | 1977.6 | 1971.1 | 1961.5 | 1948.6 | 1929.4 | 1922.9 | 1906.8 | 1900.4 | 1887.5 |
| 15° | 1961.5 | 1939.0 | 1922.9 | 1913.3 | 1903.5 | 1884.3 | 1871.4 | 1858.6 | 1842.5 | 1836.1 | 1823.2 |
| 17.5° | 1897.2 | 1871.4 | 1855.3 | 1845.7 | 1839.3 | 1823.2 | 1804.0 | 1787.9 | 1771.7 | 1765.4 | 1755.6 |
| 20° | 1820.0 | 1804.0 | 1781.4 | 1771.7 | 1765.4 | 1746.0 | 1726.8 | 1720.3 | 1707.4 | 1694.6 | 1684.9 |
| 22.5° | 1733.1 | 1717.0 | 1694.6 | 1684.9 | 1681.7 | 1665.7 | 1649.6 | 1640.0 | 1630.2 | 1620.6 | 1611.0 |
| 25° | 1643.1 | 1623.8 | 1604.5 | 1598.1 | 1591.6 | 1578.9 | 1566.0 | 1559.5 | 1549.9 | 1543.4 | 1537.0 |
| 27.5° | 1546.7 | 1527.4 | 1511.3 | 1501.7 | 1495.2 | 1485.6 | 1479.2 | 1472.7 | 1466.2 | 1459.8 | 1456.6 |
| 30° | 1443.7 | 1424.5 | 1411.6 | 1405.1 | 1398.8 | 1395.5 | 1385.9 | 1382.7 | 1379.4 | 1373.0 | 1376.3 |
| 32.5° | 1340.9 | 1324.8 | 1311.9 | 1302.3 | 1302.3 | 1295.8 | 1292.6 | 1292.6 | 1289.5 | 1289.5 | 1289.5 |
| 35° | 1228.4 | 1218.6 | 1209.0 | 1205.8 | 1202.6 | 1199.4 | 1196.2 | 1199.4 | 1196.2 | 1199.4 | 1202.6 |
| 37.5° | 1125.4 | 1115.8 | 1109.3 | 1106.1 | 1103.0 | 1106.1 | 1103.0 | 1103.0 | 1106.1 | 1112.6 | 1115.8 |
| 40° | 1019.3 | 1012.9 | 1006.4 | 1009.7 | 1006.4 | 1006.4 | 1006.4 | 1016.1 | 1019.3 | 1022.5 | 1025.8 |
| 42.5° | 919.6 | 913.2 | 910.0 | 910.0 | 913.2 | 910.0 | 916.5 | 919.6 | 926.1 | 935.7 | 942.2 |
| 45° | 823.2 | 819.9 | 819.9 | 823.2 | 819.9 | 826.4 | 826.4 | 832.8 | 842.4 | 848.9 | 855.4 |
| 47.5° | 733.1 | 733.1 | 733.1 | 736.4 | 736.4 | 739.6 | 746.0 | 749.2 | 755.6 | 762.1 | 768.5 |
| 50° | 649.5 | 652.8 | 655.9 | 655.9 | 655.9 | 662.4 | 668.8 | 672.0 | 675.3 | 678.5 | 688.1 |
| 52.5° | 575.6 | 578.8 | 578.8 | 582.0 | 585.2 | 588.5 | 591.7 | 598.1 | 601.3 | 607.7 | 610.9 |
| 55° | 504.9 | 504.9 | 511.3 | 514.5 | 514.5 | 514.5 | 520.9 | 520.9 | 527.4 | 530.5 | 537.0 |
| 57.5° | 437.3 | 440.6 | 440.6 | 443.7 | 443.7 | 446.9 | 450.2 | 453.4 | 456.6 | 459.8 | 463.0 |
| 60° | 373.0 | 373.0 | 373.0 | 376.2 | 379.5 | 382.6 | 379.5 | 385.9 | 385.9 | 392.3 | 395.5 |
| 62.5° | 311.9 | 315.1 | 315.1 | 315.1 | 315.1 | 315.1 | 315.1 | 318.4 | 321.5 | 324.8 | 328.0 |
| 65° | 254.1 | 254.1 | 254.1 | 250.8 | 254.1 | 250.8 | 254.1 | 257.2 | 257.2 | 260.4 | 263.7 |
| 67.5° | 196.1 | 196.1 | 189.7 | 189.7 | 193.0 | 193.0 | 193.0 | 193.0 | 189.7 | 196.1 | 196.1 |
| 70° | 141.5 | 138.3 | 135.0 | 131.8 | 131.8 | 128.7 | 128.7 | 125.4 | 125.4 | 125.4 | 125.4 |
| 72.5° | 93.3 | 86.8 | 80.4 | 77.2 | 73.9 | 73.9 | 67.6 | 64.3 | 67.6 | 67.6 | 67.6 |
| 75° | 48.2 | 41.8 | 38.6 | 35.4 | 32.1 | 32.1 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| 77.5° | 19.2 | 16.1 | 12.9 | 12.9 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 80° | 6.5 | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 3.2 | 0.0 | 0.0 | 3.2 | 0.0 | 3.2 | 3.2 | 3.2 | 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: P584674

CATALOG NUMBER: HCC8W45D010MB-HM82555830-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 | 2151.2 |
| 2.5° | 2109.4 | 2109.4 | 2106.1 | 2109.4 | 2103.0 | 2106.1 | 2103.0 | 2103.0 |
| 5° | 2061.2 | 2054.7 | 2054.7 | 2054.7 | 2051.5 | 2051.5 | 2048.3 | 2048.3 |
| 7.5° | 2003.2 | 2000.1 | 1996.8 | 1993.6 | 1990.5 | 1987.2 | 1987.2 | 1987.2 |
| 10° | 1945.4 | 1939.0 | 1939.0 | 1935.8 | 1929.4 | 1926.1 | 1926.1 | 1926.1 |
| 12.5° | 1877.9 | 1874.7 | 1871.4 | 1871.4 | 1858.6 | 1861.8 | 1858.6 | 1858.6 |
| 15° | 1813.6 | 1810.3 | 1810.3 | 1800.7 | 1794.2 | 1794.2 | 1794.2 | 1791.1 |
| 17.5° | 1746.0 | 1742.8 | 1739.6 | 1733.1 | 1726.8 | 1726.8 | 1723.5 | 1726.8 |
| 20° | 1675.3 | 1672.1 | 1665.7 | 1665.7 | 1662.4 | 1659.2 | 1652.8 | 1656.0 |
| 22.5° | 1604.5 | 1598.1 | 1594.9 | 1594.9 | 1591.6 | 1591.6 | 1585.3 | 1585.3 |
| 25° | 1530.5 | 1527.4 | 1524.2 | 1527.4 | 1520.9 | 1520.9 | 1514.5 | 1514.5 |
| 27.5° | 1453.5 | 1450.2 | 1450.2 | 1450.2 | 1447.0 | 1450.2 | 1447.0 | 1447.0 |
| 30° | 1376.3 | 1376.3 | 1373.0 | 1373.0 | 1376.3 | 1373.0 | 1376.3 | 1379.4 |
| 32.5° | 1292.6 | 1292.6 | 1295.8 | 1295.8 | 1299.1 | 1299.1 | 1299.1 | 1299.1 |
| 35° | 1205.8 | 1212.3 | 1212.3 | 1215.5 | 1218.6 | 1221.9 | 1221.9 | 1225.1 |
| 37.5° | 1125.4 | 1128.7 | 1131.8 | 1135.1 | 1141.6 | 1141.6 | 1141.6 | 1141.6 |
| 40° | 1038.6 | 1041.9 | 1048.3 | 1045.0 | 1057.9 | 1061.1 | 1057.9 | 1057.9 |
| 42.5° | 948.6 | 955.1 | 958.2 | 964.7 | 967.8 | 974.3 | 977.5 | 977.5 |
| 45° | 865.0 | 868.1 | 874.6 | 881.0 | 884.3 | 893.9 | 893.9 | 893.9 |
| 47.5° | 778.2 | 784.6 | 787.8 | 794.2 | 797.4 | 807.1 | 810.3 | 807.1 |
| 50° | 694.5 | 701.0 | 707.4 | 707.4 | 717.1 | 720.2 | 726.7 | 730.0 |
| 52.5° | 614.2 | 617.3 | 623.8 | 627.0 | 633.4 | 639.9 | 643.2 | 646.3 |
| 55° | 537.0 | 540.2 | 546.6 | 546.6 | 556.2 | 559.5 | 566.0 | 566.0 |
| 57.5° | 466.3 | 469.4 | 475.9 | 472.7 | 479.2 | 485.5 | 485.5 | 482.3 |
| 60° | 398.7 | 398.7 | 398.7 | 405.2 | 408.3 | 411.6 | 414.8 | 414.8 |
| 62.5° | 328.0 | 334.4 | 337.6 | 337.6 | 340.9 | 344.0 | 344.0 | 340.9 |
| 65° | 263.7 | 270.1 | 273.3 | 273.3 | 276.6 | 276.6 | 276.6 | 279.8 |
| 67.5° | 199.4 | 199.4 | 199.4 | 202.6 | 199.4 | 199.4 | 199.4 | 199.4 |
| 70° | 125.4 | 125.4 | 125.4 | 125.4 | 122.2 | 125.4 | 125.4 | 128.7 |
| 72.5° | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 |
| 75° | 29.0 | 29.0 | 29.0 | 32.1 | 29.0 | 29.0 | 29.0 | 29.0 |
| 77.5° | 12.9 | 9.6 | 12.9 | 12.9 | 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° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 0.0 | 3.2 | 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



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)