

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: P584735

Luminaire Tested: **HCC8S45D010SL-HM82555930-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584735
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: HCC8S45D010SL-HM82555930-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

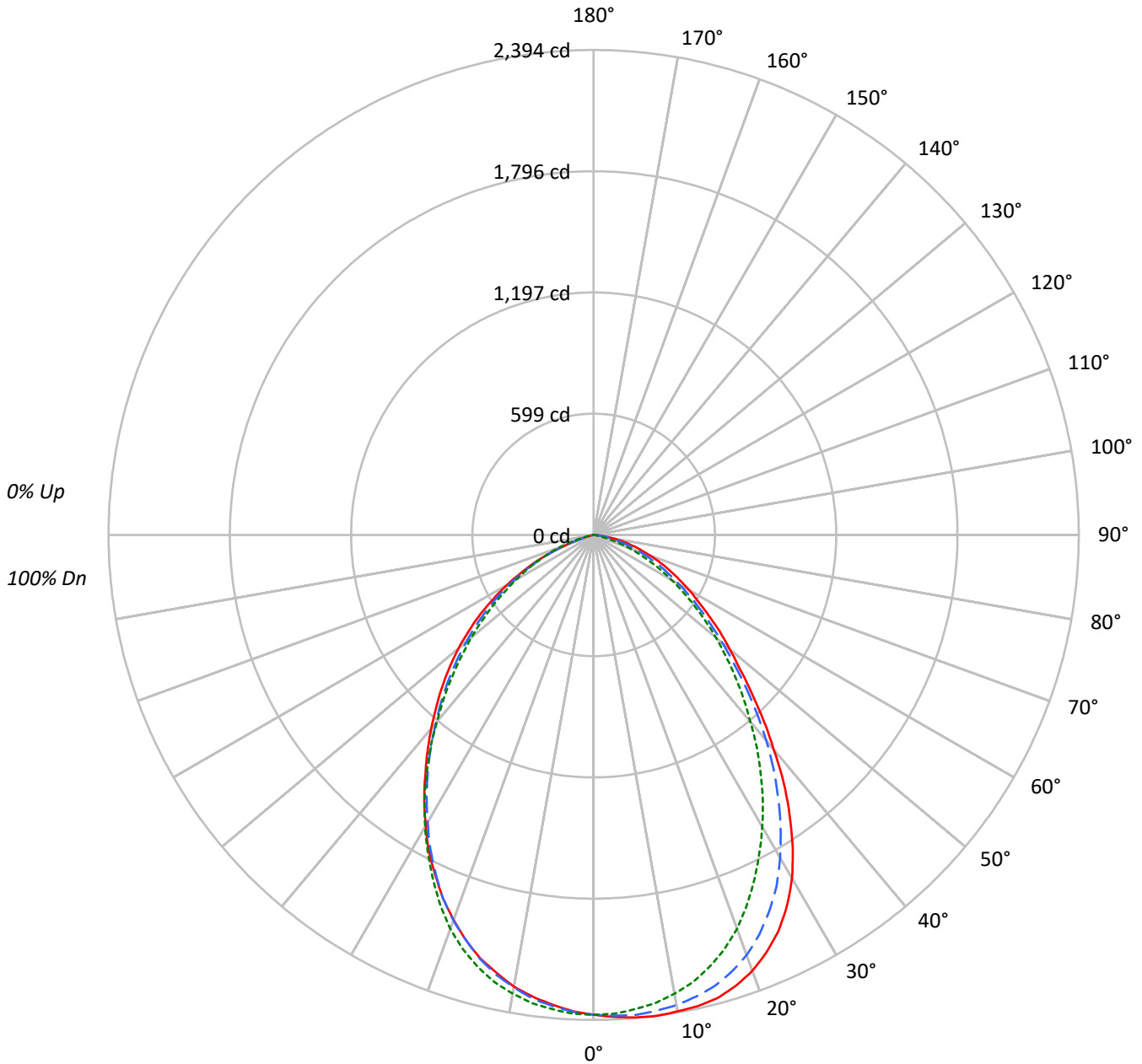
Lumens per Lamp: N/A
Luminaire Lumens: 4502.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (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: P584735
CATALOG NUMBER: HCC8S45D010SL-HM82555930-81RWWC

Luminous Intensity Polar Plot



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CATALOG NUMBER: HCC8S45D010SL-HM82555930-81RWWC

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 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 82 | 79 | 77 | | | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 73054 | 73054 | 73054 |
| 5° | 74021 | 72745 | 72058 |
| 10° | 74776 | 72002 | 70912 |
| 15° | 75529 | 70482 | 69068 |
| 20° | 75147 | 67882 | 66326 |
| 25° | 73393 | 63816 | 62958 |
| 30° | 69714 | 59242 | 59015 |
| 35° | 63461 | 54057 | 54535 |
| 40° | 55643 | 48385 | 50164 |
| 45° | 48001 | 43033 | 46069 |
| 50° | 42029 | 37783 | 41727 |
| 55° | 37241 | 32477 | 36730 |
| 60° | 33550 | 27309 | 30435 |
| 65° | 30229 | 21926 | 23305 |
| 70° | 26525 | 15967 | 12830 |
| 75° | 22613 | 8292 | 3396 |
| 80° | 17421 | 2255 | 568 |
| 85° | 11216 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.5 | 5.0 |
| 10°-20° | 628.4 | 14.0 |
| 20°-30° | 891.9 | 19.8 |
| 30°-40° | 938.8 | 20.9 |
| 40°-50° | 798.6 | 17.7 |
| 50°-60° | 577.1 | 12.8 |
| 60°-70° | 328.3 | 7.3 |
| 70°-80° | 103.4 | 2.3 |
| 80°-90° | 12.6 | 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° | 1743.8 | 38.7 |
| 0°-40° | 2682.6 | 59.6 |
| 0°-60° | 4058.4 | 90.1 |
| 0°-90° | 4502.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4502.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2369 | 2369 | 2369 | 2369 | 2369 | |
| 5° | 2391 | 2379 | 2350 | 2334 | 2328 | 228 |
| 15° | 2366 | 2306 | 2208 | 2167 | 2164 | 666 |
| 25° | 2157 | 2050 | 1876 | 1844 | 1850 | 988 |
| 35° | 1686 | 1588 | 1436 | 1426 | 1449 | 1049 |
| 45° | 1101 | 1060 | 987 | 1012 | 1056 | 856 |
| 55° | 693 | 642 | 604 | 639 | 683 | 625 |
| 65° | 414 | 357 | 300 | 297 | 319 | 411 |
| 75° | 190 | 146 | 70 | 32 | 28 | 204 |
| 85° | 32 | 19 | 0 | 0 | 0 | 41 |
| 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° | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 |
| 2.5° | 2381.8 | 2384.9 | 2378.6 | 2378.6 | 2384.9 | 2378.6 | 2381.8 | 2381.8 | 2378.6 | 2378.6 | 2375.4 |
| 5° | 2391.3 | 2388.1 | 2388.1 | 2388.1 | 2391.3 | 2384.9 | 2381.8 | 2384.9 | 2378.6 | 2378.6 | 2378.6 |
| 7.5° | 2394.4 | 2394.4 | 2391.3 | 2388.1 | 2388.1 | 2388.1 | 2384.9 | 2381.8 | 2378.6 | 2372.3 | 2369.1 |
| 10° | 2388.1 | 2388.1 | 2391.3 | 2384.9 | 2384.9 | 2378.6 | 2378.6 | 2372.3 | 2372.3 | 2365.9 | 2356.4 |
| 12.5° | 2381.8 | 2378.6 | 2378.6 | 2372.3 | 2372.3 | 2365.9 | 2365.9 | 2356.4 | 2353.3 | 2343.8 | 2334.3 |
| 15° | 2365.9 | 2362.8 | 2356.4 | 2353.3 | 2350.1 | 2346.9 | 2340.6 | 2337.4 | 2327.9 | 2315.3 | 2305.9 |
| 17.5° | 2334.3 | 2331.1 | 2327.9 | 2321.6 | 2315.3 | 2312.2 | 2309.1 | 2299.5 | 2286.9 | 2277.4 | 2261.5 |
| 20° | 2290.0 | 2286.9 | 2286.9 | 2277.4 | 2274.2 | 2264.7 | 2261.5 | 2248.9 | 2239.4 | 2220.5 | 2207.8 |
| 22.5° | 2229.9 | 2233.0 | 2226.7 | 2220.5 | 2214.2 | 2204.7 | 2198.3 | 2185.7 | 2169.8 | 2150.8 | 2135.0 |
| 25° | 2157.1 | 2160.3 | 2154.0 | 2147.6 | 2138.1 | 2131.9 | 2125.6 | 2106.6 | 2090.8 | 2068.6 | 2049.6 |
| 27.5° | 2065.4 | 2065.4 | 2065.4 | 2059.1 | 2043.2 | 2040.2 | 2033.9 | 2014.9 | 1992.7 | 1973.7 | 1954.7 |
| 30° | 1957.9 | 1954.7 | 1954.7 | 1945.3 | 1939.0 | 1926.3 | 1916.8 | 1901.0 | 1885.1 | 1863.0 | 1840.9 |
| 32.5° | 1828.2 | 1831.4 | 1821.9 | 1815.6 | 1806.1 | 1806.1 | 1793.4 | 1780.7 | 1761.8 | 1739.7 | 1717.5 |
| 35° | 1685.8 | 1689.0 | 1682.7 | 1679.6 | 1663.8 | 1660.6 | 1657.4 | 1641.6 | 1628.9 | 1613.1 | 1587.9 |
| 37.5° | 1540.4 | 1537.2 | 1534.0 | 1534.0 | 1524.5 | 1518.2 | 1511.9 | 1502.4 | 1483.5 | 1470.8 | 1458.2 |
| 40° | 1382.3 | 1382.3 | 1382.3 | 1379.1 | 1375.9 | 1369.6 | 1366.4 | 1360.1 | 1347.4 | 1334.8 | 1325.3 |
| 42.5° | 1239.9 | 1239.9 | 1236.7 | 1233.5 | 1227.2 | 1230.4 | 1224.1 | 1217.8 | 1205.1 | 1195.6 | 1189.3 |
| 45° | 1100.7 | 1100.7 | 1100.7 | 1103.9 | 1097.6 | 1088.1 | 1088.1 | 1081.7 | 1075.4 | 1069.1 | 1059.6 |
| 47.5° | 977.3 | 986.8 | 980.5 | 977.3 | 980.5 | 967.8 | 967.8 | 961.5 | 955.2 | 949.0 | 936.3 |
| 50° | 876.1 | 876.1 | 876.1 | 869.8 | 866.6 | 866.6 | 857.2 | 850.9 | 847.7 | 841.4 | 828.7 |
| 52.5° | 784.4 | 778.1 | 778.1 | 774.9 | 771.7 | 765.5 | 765.5 | 759.2 | 746.5 | 740.2 | 730.7 |
| 55° | 692.7 | 692.7 | 689.5 | 686.3 | 683.2 | 680.1 | 676.9 | 667.4 | 661.1 | 651.6 | 642.1 |
| 57.5° | 610.4 | 616.8 | 613.6 | 607.3 | 600.9 | 600.9 | 594.6 | 588.4 | 578.9 | 569.4 | 559.9 |
| 60° | 544.0 | 540.9 | 540.9 | 537.7 | 531.4 | 528.2 | 525.0 | 515.5 | 506.0 | 496.6 | 487.1 |
| 62.5° | 474.5 | 474.5 | 474.5 | 468.1 | 461.8 | 458.6 | 455.5 | 449.1 | 436.5 | 427.0 | 420.6 |
| 65° | 414.3 | 411.1 | 408.1 | 404.9 | 401.8 | 395.4 | 392.3 | 385.9 | 376.4 | 366.9 | 357.4 |
| 67.5° | 354.2 | 351.1 | 351.1 | 347.9 | 338.4 | 335.2 | 335.2 | 325.7 | 316.4 | 306.9 | 297.4 |
| 70° | 294.2 | 294.2 | 294.2 | 287.9 | 284.7 | 281.5 | 278.4 | 272.0 | 262.5 | 253.0 | 243.5 |
| 72.5° | 243.5 | 240.3 | 240.3 | 237.2 | 227.7 | 224.6 | 221.5 | 215.1 | 205.6 | 199.3 | 193.0 |
| 75° | 189.8 | 189.8 | 186.6 | 183.5 | 180.3 | 177.1 | 174.0 | 167.6 | 158.1 | 148.6 | 145.5 |
| 77.5° | 145.5 | 142.3 | 142.3 | 139.1 | 132.9 | 129.7 | 129.7 | 123.4 | 113.9 | 107.6 | 101.2 |
| 80° | 98.1 | 101.2 | 98.1 | 94.9 | 91.7 | 88.6 | 85.4 | 82.2 | 75.9 | 69.6 | 63.2 |
| 82.5° | 60.1 | 63.2 | 60.1 | 60.1 | 56.9 | 53.7 | 53.7 | 47.4 | 44.3 | 41.2 | 38.0 |
| 85° | 31.7 | 31.7 | 31.7 | 31.7 | 28.5 | 28.5 | 28.5 | 25.3 | 22.2 | 19.0 | 19.0 |
| 87.5° | 9.5 | 12.7 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 6.3 | 6.3 | 6.3 |
| 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° | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 |
| 2.5° | 2378.6 | 2375.4 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2369.1 | 2365.9 | 2365.9 | 2365.9 |
| 5° | 2372.3 | 2372.3 | 2372.3 | 2369.1 | 2365.9 | 2365.9 | 2359.6 | 2356.4 | 2353.3 | 2350.1 | 2346.9 |
| 7.5° | 2365.9 | 2359.6 | 2356.4 | 2353.3 | 2350.1 | 2350.1 | 2343.8 | 2337.4 | 2337.4 | 2331.1 | 2324.8 |
| 10° | 2346.9 | 2343.8 | 2337.4 | 2331.1 | 2327.9 | 2324.8 | 2318.4 | 2309.1 | 2305.9 | 2299.5 | 2293.2 |
| 12.5° | 2324.8 | 2318.4 | 2312.2 | 2299.5 | 2296.4 | 2293.2 | 2280.5 | 2271.0 | 2264.7 | 2261.5 | 2245.7 |
| 15° | 2296.4 | 2283.7 | 2274.2 | 2258.4 | 2255.2 | 2248.9 | 2239.4 | 2229.9 | 2217.3 | 2207.8 | 2201.5 |
| 17.5° | 2245.7 | 2233.0 | 2217.3 | 2201.5 | 2195.2 | 2195.2 | 2179.3 | 2166.6 | 2150.8 | 2144.5 | 2131.9 |
| 20° | 2185.7 | 2169.8 | 2157.1 | 2138.1 | 2128.8 | 2119.3 | 2109.8 | 2090.8 | 2078.1 | 2068.6 | 2052.8 |
| 22.5° | 2116.1 | 2093.9 | 2078.1 | 2059.1 | 2043.2 | 2033.9 | 2018.0 | 2002.2 | 1986.4 | 1976.9 | 1964.2 |
| 25° | 2027.5 | 2008.5 | 1983.2 | 1964.2 | 1954.7 | 1942.1 | 1923.1 | 1907.3 | 1891.5 | 1875.6 | 1869.3 |
| 27.5° | 1929.5 | 1904.1 | 1882.0 | 1859.9 | 1850.4 | 1840.9 | 1818.7 | 1799.7 | 1787.1 | 1771.2 | 1765.0 |
| 30° | 1821.9 | 1796.6 | 1771.2 | 1752.3 | 1742.8 | 1727.0 | 1714.3 | 1692.2 | 1676.5 | 1663.8 | 1647.9 |
| 32.5° | 1698.5 | 1679.6 | 1657.4 | 1628.9 | 1622.6 | 1609.9 | 1590.9 | 1581.6 | 1562.6 | 1553.1 | 1540.4 |
| 35° | 1565.7 | 1553.1 | 1530.9 | 1508.7 | 1499.2 | 1493.0 | 1477.2 | 1458.2 | 1445.5 | 1436.0 | 1429.7 |
| 37.5° | 1439.2 | 1423.3 | 1401.3 | 1385.4 | 1379.1 | 1369.6 | 1350.6 | 1341.1 | 1328.4 | 1322.1 | 1309.5 |
| 40° | 1303.2 | 1287.4 | 1271.5 | 1262.0 | 1252.5 | 1246.2 | 1233.5 | 1224.1 | 1211.5 | 1202.0 | 1198.8 |
| 42.5° | 1170.3 | 1160.8 | 1148.1 | 1135.5 | 1132.4 | 1122.9 | 1116.6 | 1107.1 | 1097.6 | 1094.4 | 1084.9 |
| 45° | 1050.1 | 1040.7 | 1028.0 | 1015.3 | 1012.2 | 1005.8 | 1002.7 | 993.2 | 986.8 | 986.8 | 986.8 |
| 47.5° | 930.0 | 920.5 | 907.8 | 901.5 | 904.6 | 891.9 | 891.9 | 888.8 | 882.4 | 882.4 | 885.6 |
| 50° | 822.4 | 809.7 | 806.6 | 800.2 | 793.9 | 787.6 | 790.7 | 781.2 | 781.2 | 787.6 | 784.4 |
| 52.5° | 721.2 | 708.5 | 705.3 | 699.0 | 695.8 | 695.8 | 692.7 | 692.7 | 689.5 | 692.7 | 692.7 |
| 55° | 629.4 | 619.9 | 613.6 | 607.3 | 604.1 | 604.1 | 604.1 | 600.9 | 597.8 | 604.1 | 607.3 |
| 57.5° | 547.2 | 544.0 | 537.7 | 528.2 | 525.0 | 521.9 | 518.7 | 518.7 | 518.7 | 518.7 | 521.9 |
| 60° | 474.5 | 468.1 | 461.8 | 452.3 | 452.3 | 449.1 | 446.0 | 442.8 | 442.8 | 442.8 | 442.8 |
| 62.5° | 411.1 | 401.8 | 392.3 | 385.9 | 382.7 | 379.6 | 376.4 | 370.1 | 370.1 | 370.1 | 370.1 |
| 65° | 347.9 | 338.4 | 332.1 | 325.7 | 319.4 | 319.4 | 313.2 | 310.0 | 303.7 | 300.5 | 294.2 |
| 67.5° | 287.9 | 281.5 | 275.2 | 265.7 | 262.5 | 259.4 | 253.0 | 249.8 | 240.3 | 237.2 | 234.0 |
| 70° | 234.0 | 224.6 | 218.3 | 212.0 | 208.8 | 202.5 | 196.1 | 189.8 | 183.5 | 177.1 | 170.8 |
| 72.5° | 183.5 | 174.0 | 167.6 | 161.3 | 155.0 | 155.0 | 145.5 | 139.1 | 129.7 | 123.4 | 113.9 |
| 75° | 136.1 | 126.6 | 120.2 | 110.7 | 107.6 | 104.4 | 94.9 | 88.6 | 79.1 | 69.6 | 63.2 |
| 77.5° | 91.7 | 85.4 | 79.1 | 69.6 | 63.2 | 63.2 | 53.7 | 47.4 | 41.2 | 31.7 | 28.5 |
| 80° | 56.9 | 50.6 | 44.3 | 38.0 | 38.0 | 31.7 | 28.5 | 22.2 | 15.8 | 12.7 | 9.5 |
| 82.5° | 31.7 | 28.5 | 25.3 | 19.0 | 19.0 | 15.8 | 12.7 | 9.5 | 6.3 | 3.2 | 3.2 |
| 85° | 15.8 | 12.7 | 9.5 | 9.5 | 6.3 | 6.3 | 6.3 | 3.2 | 3.2 | 0.0 | 0.0 |
| 87.5° | 6.3 | 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° | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 |
| 2.5° | 2362.8 | 2362.8 | 2359.6 | 2359.6 | 2359.6 | 2356.4 | 2359.6 | 2356.4 | 2356.4 | 2356.4 | 2359.6 |
| 5° | 2350.1 | 2343.8 | 2343.8 | 2340.6 | 2340.6 | 2337.4 | 2340.6 | 2337.4 | 2334.3 | 2331.1 | 2334.3 |
| 7.5° | 2324.8 | 2318.4 | 2315.3 | 2312.2 | 2312.2 | 2312.2 | 2309.1 | 2305.9 | 2309.1 | 2299.5 | 2305.9 |
| 10° | 2290.0 | 2286.9 | 2280.5 | 2277.4 | 2274.2 | 2277.4 | 2274.2 | 2267.9 | 2267.9 | 2267.9 | 2264.7 |
| 12.5° | 2245.7 | 2239.4 | 2236.2 | 2233.0 | 2226.7 | 2226.7 | 2229.9 | 2223.7 | 2223.7 | 2217.3 | 2217.3 |
| 15° | 2192.0 | 2185.7 | 2179.3 | 2179.3 | 2173.0 | 2173.0 | 2169.8 | 2169.8 | 2166.6 | 2163.5 | 2163.5 |
| 17.5° | 2125.6 | 2116.1 | 2109.8 | 2112.9 | 2109.8 | 2106.6 | 2106.6 | 2100.3 | 2097.1 | 2100.3 | 2100.3 |
| 20° | 2046.4 | 2040.2 | 2033.9 | 2037.0 | 2030.7 | 2027.5 | 2030.7 | 2021.2 | 2024.4 | 2024.4 | 2024.4 |
| 22.5° | 1957.9 | 1954.7 | 1945.3 | 1945.3 | 1939.0 | 1935.8 | 1939.0 | 1939.0 | 1942.1 | 1939.0 | 1939.0 |
| 25° | 1859.9 | 1853.6 | 1847.2 | 1847.2 | 1844.1 | 1840.9 | 1844.1 | 1847.2 | 1844.1 | 1847.2 | 1847.2 |
| 27.5° | 1755.5 | 1746.0 | 1746.0 | 1739.7 | 1739.7 | 1742.8 | 1739.7 | 1742.8 | 1746.0 | 1746.0 | 1752.3 |
| 30° | 1641.6 | 1638.4 | 1635.3 | 1632.1 | 1632.1 | 1635.3 | 1635.3 | 1635.3 | 1638.4 | 1644.8 | 1644.8 |
| 32.5° | 1534.0 | 1527.7 | 1521.4 | 1521.4 | 1527.7 | 1524.5 | 1527.7 | 1527.7 | 1534.0 | 1534.0 | 1540.4 |
| 35° | 1417.0 | 1417.0 | 1410.6 | 1413.8 | 1413.8 | 1413.8 | 1413.8 | 1420.2 | 1426.5 | 1429.7 | 1436.0 |
| 37.5° | 1309.5 | 1300.0 | 1303.2 | 1303.2 | 1306.4 | 1303.2 | 1312.7 | 1312.7 | 1318.9 | 1318.9 | 1325.3 |
| 40° | 1192.5 | 1192.5 | 1195.6 | 1192.5 | 1195.6 | 1195.6 | 1202.0 | 1208.3 | 1211.5 | 1217.8 | 1221.0 |
| 42.5° | 1081.7 | 1088.1 | 1081.7 | 1084.9 | 1088.1 | 1091.2 | 1094.4 | 1097.6 | 1110.2 | 1116.6 | 1126.1 |
| 45° | 980.5 | 983.7 | 986.8 | 990.0 | 986.8 | 993.2 | 996.3 | 1002.7 | 1012.2 | 1015.3 | 1018.5 |
| 47.5° | 882.4 | 885.6 | 888.8 | 891.9 | 891.9 | 898.3 | 901.5 | 907.8 | 914.1 | 917.3 | 920.5 |
| 50° | 787.6 | 793.9 | 797.1 | 797.1 | 800.2 | 806.6 | 812.9 | 812.9 | 819.2 | 828.7 | 831.9 |
| 52.5° | 702.2 | 702.2 | 708.5 | 711.7 | 714.8 | 714.8 | 724.3 | 727.5 | 730.7 | 737.0 | 743.3 |
| 55° | 607.3 | 616.8 | 619.9 | 619.9 | 626.3 | 632.6 | 635.8 | 638.9 | 638.9 | 651.6 | 651.6 |
| 57.5° | 525.0 | 528.2 | 534.5 | 534.5 | 534.5 | 544.0 | 544.0 | 550.4 | 553.5 | 556.7 | 563.0 |
| 60° | 442.8 | 449.1 | 449.1 | 452.3 | 449.1 | 455.5 | 458.6 | 465.0 | 468.1 | 471.3 | 474.5 |
| 62.5° | 366.9 | 366.9 | 370.1 | 370.1 | 370.1 | 370.1 | 376.4 | 376.4 | 382.7 | 385.9 | 389.1 |
| 65° | 294.2 | 294.2 | 294.2 | 294.2 | 294.2 | 294.2 | 294.2 | 294.2 | 297.4 | 297.4 | 303.7 |
| 67.5° | 227.7 | 224.6 | 218.3 | 221.5 | 218.3 | 218.3 | 215.1 | 215.1 | 218.3 | 218.3 | 224.6 |
| 70° | 164.5 | 161.3 | 155.0 | 155.0 | 151.8 | 148.6 | 145.5 | 142.3 | 139.1 | 139.1 | 139.1 |
| 72.5° | 107.6 | 101.2 | 91.7 | 88.6 | 88.6 | 82.2 | 75.9 | 72.7 | 72.7 | 72.7 | 72.7 |
| 75° | 53.7 | 47.4 | 41.2 | 38.0 | 38.0 | 31.7 | 34.8 | 31.7 | 31.7 | 31.7 | 31.7 |
| 77.5° | 22.2 | 15.8 | 12.7 | 12.7 | 12.7 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 80° | 6.3 | 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: P584735

CATALOG NUMBER: HCC8S45D010SL-HM82555930-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 | 2369.1 |
| 2.5° | 2356.4 | 2356.4 | 2350.1 | 2353.3 | 2353.3 | 2353.3 | 2353.3 | 2353.3 |
| 5° | 2327.9 | 2331.1 | 2327.9 | 2331.1 | 2331.1 | 2327.9 | 2327.9 | 2327.9 |
| 7.5° | 2299.5 | 2302.7 | 2299.5 | 2302.7 | 2302.7 | 2302.7 | 2299.5 | 2299.5 |
| 10° | 2264.7 | 2264.7 | 2264.7 | 2264.7 | 2264.7 | 2261.5 | 2264.7 | 2264.7 |
| 12.5° | 2217.3 | 2217.3 | 2217.3 | 2220.5 | 2220.5 | 2217.3 | 2217.3 | 2214.2 |
| 15° | 2166.6 | 2160.3 | 2163.5 | 2166.6 | 2163.5 | 2163.5 | 2163.5 | 2163.5 |
| 17.5° | 2097.1 | 2100.3 | 2097.1 | 2097.1 | 2097.1 | 2097.1 | 2100.3 | 2097.1 |
| 20° | 2024.4 | 2024.4 | 2027.5 | 2024.4 | 2024.4 | 2024.4 | 2024.4 | 2021.2 |
| 22.5° | 1942.1 | 1939.0 | 1939.0 | 1942.1 | 1942.1 | 1939.0 | 1942.1 | 1942.1 |
| 25° | 1850.4 | 1853.6 | 1850.4 | 1850.4 | 1853.6 | 1853.6 | 1853.6 | 1850.4 |
| 27.5° | 1752.3 | 1755.5 | 1758.7 | 1755.5 | 1755.5 | 1755.5 | 1758.7 | 1761.8 |
| 30° | 1651.1 | 1657.4 | 1651.1 | 1651.1 | 1657.4 | 1654.3 | 1657.4 | 1657.4 |
| 32.5° | 1543.6 | 1553.1 | 1546.7 | 1553.1 | 1553.1 | 1556.2 | 1553.1 | 1556.2 |
| 35° | 1436.0 | 1445.5 | 1445.5 | 1445.5 | 1448.7 | 1451.8 | 1451.8 | 1448.7 |
| 37.5° | 1334.8 | 1337.9 | 1337.9 | 1344.3 | 1347.4 | 1350.6 | 1350.6 | 1347.4 |
| 40° | 1230.4 | 1236.7 | 1239.9 | 1239.9 | 1239.9 | 1246.2 | 1252.5 | 1246.2 |
| 42.5° | 1129.2 | 1132.4 | 1135.5 | 1135.5 | 1141.8 | 1145.0 | 1148.1 | 1148.1 |
| 45° | 1031.2 | 1037.5 | 1040.7 | 1043.9 | 1046.9 | 1053.2 | 1050.1 | 1056.4 |
| 47.5° | 930.0 | 939.5 | 942.6 | 945.8 | 952.1 | 955.2 | 958.3 | 961.5 |
| 50° | 838.2 | 844.6 | 844.6 | 850.9 | 860.4 | 860.4 | 866.6 | 869.8 |
| 52.5° | 746.5 | 749.7 | 752.8 | 756.0 | 762.3 | 768.7 | 768.7 | 774.9 |
| 55° | 657.9 | 661.1 | 661.1 | 664.3 | 667.4 | 680.1 | 683.2 | 683.2 |
| 57.5° | 566.2 | 566.2 | 572.5 | 575.7 | 578.9 | 585.2 | 585.2 | 585.2 |
| 60° | 477.6 | 480.8 | 480.8 | 484.0 | 487.1 | 493.5 | 496.6 | 493.5 |
| 62.5° | 389.1 | 392.3 | 392.3 | 395.4 | 401.8 | 404.9 | 401.8 | 401.8 |
| 65° | 306.9 | 310.0 | 310.0 | 313.2 | 319.4 | 319.4 | 316.4 | 319.4 |
| 67.5° | 224.6 | 224.6 | 224.6 | 224.6 | 224.6 | 224.6 | 224.6 | 224.6 |
| 70° | 142.3 | 139.1 | 136.1 | 139.1 | 139.1 | 139.1 | 136.1 | 142.3 |
| 72.5° | 69.6 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 69.6 |
| 75° | 31.7 | 31.7 | 28.5 | 28.5 | 28.5 | 31.7 | 31.7 | 28.5 |
| 77.5° | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 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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Scaled Data Report



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Scaled Data Report



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

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(END OF REPORT)