

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: P584871

Luminaire Tested: **HCC8W50D010SL-HM82555930-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584871  
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: HCC8W50D010SL-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**

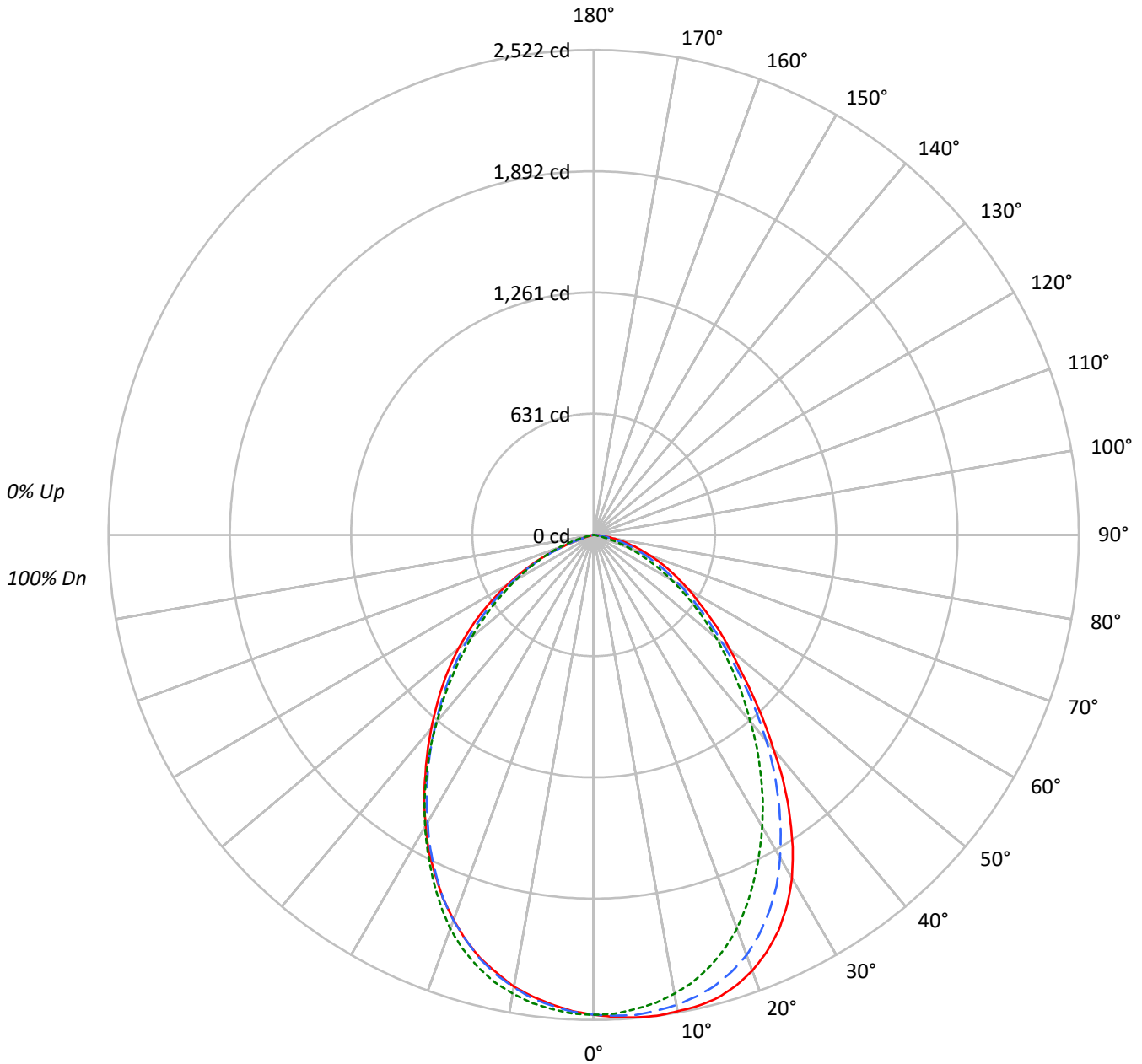
Lumens per Lamp: N/A  
Luminaire Lumens: 4742.5 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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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   | 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  | 85  | 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°  | 76946 | 76946 | 76946 |
| 5°  | 77964 | 76624 | 75903 |
| 10° | 78759 | 75841 | 74695 |
| 15° | 79558 | 74239 | 72749 |
| 20° | 79154 | 71501 | 69861 |
| 25° | 77310 | 67218 | 66313 |
| 30° | 73428 | 62397 | 62162 |
| 35° | 66845 | 56941 | 57441 |
| 40° | 58606 | 50962 | 52841 |
| 45° | 50560 | 45332 | 48528 |
| 50° | 44269 | 39793 | 43948 |
| 55° | 39224 | 34208 | 38687 |
| 60° | 35338 | 28764 | 32051 |
| 65° | 31842 | 23086 | 24545 |
| 70° | 27931 | 16824 | 13515 |
| 75° | 23817 | 8733  | 3562  |
| 80° | 18326 | 2362  | 586   |
| 85° | 11782 | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 235.4  | 5.0       |
| 10°-20°   | 661.9  | 14.0      |
| 20°-30°   | 939.4  | 19.8      |
| 30°-40°   | 988.9  | 20.9      |
| 40°-50°   | 841.2  | 17.7      |
| 50°-60°   | 607.9  | 12.8      |
| 60°-70°   | 345.7  | 7.3       |
| 70°-80°   | 108.9  | 2.3       |
| 80°-90°   | 13.2   | 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°    | 1836.7 | 38.7      |
| 0°-40°    | 2825.6 | 59.6      |
| 0°-60°    | 4274.7 | 90.1      |
| 0°-90°    | 4742.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4742.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2495 | 2495 | 2495 | 2495 | 2495 |      |
| 5°  | 2519 | 2505 | 2475 | 2459 | 2452 | 240  |
| 15° | 2492 | 2429 | 2326 | 2282 | 2279 | 702  |
| 25° | 2272 | 2159 | 1976 | 1942 | 1949 | 1041 |
| 35° | 1776 | 1672 | 1513 | 1502 | 1526 | 1105 |
| 45° | 1159 | 1116 | 1040 | 1066 | 1113 | 901  |
| 55° | 730  | 676  | 636  | 673  | 720  | 658  |
| 65° | 436  | 376  | 316  | 313  | 336  | 433  |
| 75° | 200  | 153  | 73   | 33   | 30   | 215  |
| 85° | 33   | 20   | 0    | 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°    | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 |
| 2.5°  | 2508.7 | 2512.1 | 2505.4 | 2505.4 | 2512.1 | 2505.4 | 2508.7 | 2508.7 | 2505.4 | 2505.4 | 2502.0 |
| 5°    | 2518.7 | 2515.3 | 2515.3 | 2515.3 | 2518.7 | 2512.1 | 2508.7 | 2512.1 | 2505.4 | 2505.4 | 2505.4 |
| 7.5°  | 2522.0 | 2522.0 | 2518.7 | 2515.3 | 2515.3 | 2515.3 | 2512.1 | 2508.7 | 2505.4 | 2498.7 | 2495.3 |
| 10°   | 2515.3 | 2515.3 | 2518.7 | 2512.1 | 2512.1 | 2505.4 | 2505.4 | 2498.7 | 2498.7 | 2492.1 | 2482.0 |
| 12.5° | 2508.7 | 2505.4 | 2505.4 | 2498.7 | 2498.7 | 2492.1 | 2492.1 | 2482.0 | 2478.7 | 2468.7 | 2458.8 |
| 15°   | 2492.1 | 2488.7 | 2482.0 | 2478.7 | 2475.4 | 2472.1 | 2465.4 | 2462.0 | 2452.1 | 2438.8 | 2428.7 |
| 17.5° | 2458.8 | 2455.4 | 2452.1 | 2445.4 | 2438.8 | 2435.4 | 2432.1 | 2422.1 | 2408.7 | 2398.8 | 2382.1 |
| 20°   | 2412.1 | 2408.7 | 2408.7 | 2398.8 | 2395.4 | 2385.5 | 2382.1 | 2368.7 | 2358.8 | 2338.8 | 2325.5 |
| 22.5° | 2348.8 | 2352.1 | 2345.5 | 2338.8 | 2332.2 | 2322.1 | 2315.4 | 2302.1 | 2285.5 | 2265.5 | 2248.8 |
| 25°   | 2272.2 | 2275.5 | 2268.8 | 2262.1 | 2252.2 | 2245.5 | 2238.9 | 2218.9 | 2202.2 | 2178.9 | 2158.9 |
| 27.5° | 2175.5 | 2175.5 | 2175.5 | 2168.8 | 2152.2 | 2148.9 | 2142.2 | 2122.2 | 2098.9 | 2078.9 | 2059.0 |
| 30°   | 2062.2 | 2059.0 | 2059.0 | 2048.9 | 2042.2 | 2028.9 | 2019.0 | 2002.3 | 1985.7 | 1962.3 | 1939.0 |
| 32.5° | 1925.7 | 1929.0 | 1919.0 | 1912.4 | 1902.3 | 1902.3 | 1889.0 | 1875.7 | 1855.7 | 1832.4 | 1809.0 |
| 35°   | 1775.7 | 1779.1 | 1772.4 | 1769.0 | 1752.4 | 1749.1 | 1745.8 | 1729.1 | 1715.7 | 1699.1 | 1672.5 |
| 37.5° | 1622.5 | 1619.2 | 1615.8 | 1615.8 | 1605.9 | 1599.2 | 1592.5 | 1582.5 | 1562.5 | 1549.2 | 1535.8 |
| 40°   | 1455.9 | 1455.9 | 1455.9 | 1452.6 | 1449.2 | 1442.5 | 1439.3 | 1432.6 | 1419.3 | 1406.0 | 1395.9 |
| 42.5° | 1306.0 | 1306.0 | 1302.6 | 1299.3 | 1292.7 | 1296.0 | 1289.3 | 1282.6 | 1269.3 | 1259.4 | 1252.7 |
| 45°   | 1159.4 | 1159.4 | 1159.4 | 1162.7 | 1156.0 | 1146.1 | 1146.1 | 1139.4 | 1132.8 | 1126.1 | 1116.0 |
| 47.5° | 1029.4 | 1039.5 | 1032.8 | 1029.4 | 1032.8 | 1019.5 | 1019.5 | 1012.8 | 1006.2 | 999.5  | 986.2  |
| 50°   | 922.8  | 922.8  | 922.8  | 916.1  | 912.9  | 912.9  | 902.8  | 896.2  | 892.9  | 886.2  | 872.9  |
| 52.5° | 826.2  | 819.6  | 819.6  | 816.2  | 812.9  | 806.3  | 806.3  | 799.6  | 786.3  | 779.6  | 769.6  |
| 55°   | 729.6  | 729.6  | 726.3  | 722.9  | 719.6  | 716.2  | 713.0  | 702.9  | 696.3  | 686.3  | 676.3  |
| 57.5° | 643.0  | 649.6  | 646.3  | 639.7  | 633.0  | 633.0  | 626.4  | 619.7  | 609.6  | 599.7  | 589.6  |
| 60°   | 573.0  | 569.7  | 569.7  | 566.4  | 559.7  | 556.3  | 553.1  | 543.0  | 533.1  | 523.0  | 513.1  |
| 62.5° | 499.7  | 499.7  | 499.7  | 493.1  | 486.4  | 483.0  | 479.8  | 473.1  | 459.8  | 449.7  | 443.1  |
| 65°   | 436.4  | 433.1  | 429.7  | 426.5  | 423.1  | 416.4  | 413.1  | 406.5  | 396.4  | 386.5  | 376.4  |
| 67.5° | 373.1  | 369.8  | 369.8  | 366.5  | 356.4  | 353.2  | 353.2  | 343.1  | 333.2  | 323.1  | 313.2  |
| 70°   | 309.8  | 309.8  | 309.8  | 303.1  | 299.8  | 296.5  | 293.2  | 286.5  | 276.5  | 266.5  | 256.5  |
| 72.5° | 256.5  | 253.2  | 253.2  | 249.8  | 239.9  | 236.5  | 233.2  | 226.6  | 216.5  | 209.8  | 203.2  |
| 75°   | 199.9  | 199.9  | 196.5  | 193.2  | 189.8  | 186.6  | 183.2  | 176.5  | 166.6  | 156.5  | 153.3  |
| 77.5° | 153.3  | 149.9  | 149.9  | 146.6  | 139.9  | 136.5  | 136.5  | 129.9  | 119.9  | 113.3  | 106.6  |
| 80°   | 103.2  | 106.6  | 103.2  | 99.9   | 96.6   | 93.3   | 89.9   | 86.6   | 80.0   | 73.3   | 66.6   |
| 82.5° | 63.2   | 66.6   | 63.2   | 63.2   | 60.0   | 56.6   | 56.6   | 49.9   | 46.6   | 43.3   | 40.0   |
| 85°   | 33.3   | 33.3   | 33.3   | 33.3   | 29.9   | 29.9   | 29.9   | 26.7   | 23.3   | 20.0   | 20.0   |
| 87.5° | 9.9    | 13.3   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 6.7    | 6.7    | 6.7    |
| 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°    | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 |
| 2.5°  | 2505.4 | 2502.0 | 2498.7 | 2498.7 | 2498.7 | 2498.7 | 2498.7 | 2495.3 | 2492.1 | 2492.1 | 2492.1 |
| 5°    | 2498.7 | 2498.7 | 2498.7 | 2495.3 | 2492.1 | 2492.1 | 2485.4 | 2482.0 | 2478.7 | 2475.4 | 2472.1 |
| 7.5°  | 2492.1 | 2485.4 | 2482.0 | 2478.7 | 2475.4 | 2475.4 | 2468.7 | 2462.0 | 2462.0 | 2455.4 | 2448.7 |
| 10°   | 2472.1 | 2468.7 | 2462.0 | 2455.4 | 2452.1 | 2448.7 | 2442.0 | 2432.1 | 2428.7 | 2422.1 | 2415.4 |
| 12.5° | 2448.7 | 2442.0 | 2435.4 | 2422.1 | 2418.8 | 2415.4 | 2402.1 | 2392.1 | 2385.5 | 2382.1 | 2365.5 |
| 15°   | 2418.8 | 2405.5 | 2395.4 | 2378.8 | 2375.4 | 2368.7 | 2358.8 | 2348.8 | 2335.4 | 2325.5 | 2318.8 |
| 17.5° | 2365.5 | 2352.1 | 2335.4 | 2318.8 | 2312.2 | 2312.2 | 2295.4 | 2282.1 | 2265.5 | 2258.9 | 2245.5 |
| 20°   | 2302.1 | 2285.5 | 2272.2 | 2252.2 | 2242.1 | 2232.2 | 2222.2 | 2202.2 | 2188.8 | 2178.9 | 2162.2 |
| 22.5° | 2228.8 | 2205.6 | 2188.8 | 2168.8 | 2152.2 | 2142.2 | 2125.6 | 2108.9 | 2092.3 | 2082.2 | 2068.9 |
| 25°   | 2135.5 | 2115.5 | 2088.9 | 2068.9 | 2059.0 | 2045.6 | 2025.6 | 2008.9 | 1992.3 | 1975.6 | 1968.9 |
| 27.5° | 2032.3 | 2005.7 | 1982.3 | 1959.0 | 1949.0 | 1939.0 | 1915.6 | 1895.7 | 1882.3 | 1865.7 | 1859.1 |
| 30°   | 1919.0 | 1892.4 | 1865.7 | 1845.7 | 1835.7 | 1819.1 | 1805.8 | 1782.4 | 1765.8 | 1752.4 | 1735.7 |
| 32.5° | 1789.0 | 1769.0 | 1745.8 | 1715.7 | 1709.1 | 1695.8 | 1675.8 | 1665.8 | 1645.8 | 1635.8 | 1622.5 |
| 35°   | 1649.1 | 1635.8 | 1612.5 | 1589.1 | 1579.2 | 1572.5 | 1555.8 | 1535.8 | 1522.5 | 1512.6 | 1505.9 |
| 37.5° | 1515.8 | 1499.2 | 1475.9 | 1459.3 | 1452.6 | 1442.5 | 1422.6 | 1412.6 | 1399.3 | 1392.6 | 1379.3 |
| 40°   | 1372.6 | 1355.9 | 1339.3 | 1329.3 | 1319.3 | 1312.7 | 1299.3 | 1289.3 | 1276.0 | 1266.0 | 1262.6 |
| 42.5° | 1232.7 | 1222.7 | 1209.3 | 1196.0 | 1192.7 | 1182.7 | 1176.0 | 1166.1 | 1156.0 | 1152.8 | 1142.7 |
| 45°   | 1106.1 | 1096.1 | 1082.7 | 1069.4 | 1066.1 | 1059.5 | 1056.1 | 1046.1 | 1039.5 | 1039.5 | 1039.5 |
| 47.5° | 979.5  | 969.5  | 956.1  | 949.5  | 952.9  | 939.5  | 939.5  | 936.1  | 929.5  | 929.5  | 932.9  |
| 50°   | 866.2  | 852.9  | 849.5  | 842.8  | 836.2  | 829.5  | 832.9  | 822.9  | 822.9  | 829.5  | 826.2  |
| 52.5° | 759.6  | 746.3  | 742.9  | 736.2  | 733.0  | 733.0  | 729.6  | 729.6  | 726.3  | 729.6  | 729.6  |
| 55°   | 662.9  | 653.0  | 646.3  | 639.7  | 636.3  | 636.3  | 636.3  | 633.0  | 629.6  | 636.3  | 639.7  |
| 57.5° | 576.3  | 573.0  | 566.4  | 556.3  | 553.1  | 549.7  | 546.4  | 546.4  | 546.4  | 546.4  | 549.7  |
| 60°   | 499.7  | 493.1  | 486.4  | 476.4  | 476.4  | 473.1  | 469.7  | 466.4  | 466.4  | 466.4  | 466.4  |
| 62.5° | 433.1  | 423.1  | 413.1  | 406.5  | 403.1  | 399.8  | 396.4  | 389.7  | 389.7  | 389.7  | 389.7  |
| 65°   | 366.5  | 356.4  | 349.8  | 343.1  | 336.4  | 336.4  | 329.8  | 326.5  | 319.8  | 316.4  | 309.8  |
| 67.5° | 303.1  | 296.5  | 289.8  | 279.9  | 276.5  | 273.2  | 266.5  | 263.1  | 253.2  | 249.8  | 246.5  |
| 70°   | 246.5  | 236.5  | 229.8  | 223.2  | 219.9  | 213.2  | 206.6  | 199.9  | 193.2  | 186.6  | 179.9  |
| 72.5° | 193.2  | 183.2  | 176.5  | 169.9  | 163.2  | 163.2  | 153.3  | 146.6  | 136.5  | 129.9  | 119.9  |
| 75°   | 143.2  | 133.3  | 126.6  | 116.5  | 113.3  | 109.9  | 99.9   | 93.3   | 83.2   | 73.3   | 66.6   |
| 77.5° | 96.6   | 89.9   | 83.2   | 73.3   | 66.6   | 66.6   | 56.6   | 49.9   | 43.3   | 33.3   | 29.9   |
| 80°   | 60.0   | 53.3   | 46.6   | 40.0   | 40.0   | 33.3   | 29.9   | 23.3   | 16.6   | 13.3   | 9.9    |
| 82.5° | 33.3   | 29.9   | 26.7   | 20.0   | 20.0   | 16.6   | 13.3   | 9.9    | 6.7    | 3.3    | 3.3    |
| 85°   | 16.6   | 13.3   | 9.9    | 9.9    | 6.7    | 6.7    | 6.7    | 3.3    | 3.3    | 0.0    | 0.0    |
| 87.5° | 6.7    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 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    |



TEST NUMBER: P584871

CATALOG NUMBER: HCC8W50D010SL-HM82555930-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 |
| 2.5°  | 2488.7 | 2488.7 | 2485.4 | 2485.4 | 2485.4 | 2482.0 | 2485.4 | 2482.0 | 2482.0 | 2482.0 | 2485.4 |
| 5°    | 2475.4 | 2468.7 | 2468.7 | 2465.4 | 2465.4 | 2462.0 | 2465.4 | 2462.0 | 2458.8 | 2455.4 | 2458.8 |
| 7.5°  | 2448.7 | 2442.0 | 2438.8 | 2435.4 | 2435.4 | 2435.4 | 2432.1 | 2428.7 | 2432.1 | 2422.1 | 2428.7 |
| 10°   | 2412.1 | 2408.7 | 2402.1 | 2398.8 | 2395.4 | 2398.8 | 2395.4 | 2388.7 | 2388.7 | 2388.7 | 2385.5 |
| 12.5° | 2365.5 | 2358.8 | 2355.4 | 2352.1 | 2345.5 | 2345.5 | 2348.8 | 2342.1 | 2342.1 | 2335.4 | 2335.4 |
| 15°   | 2308.8 | 2302.1 | 2295.4 | 2295.4 | 2288.8 | 2288.8 | 2285.5 | 2285.5 | 2282.1 | 2278.8 | 2278.8 |
| 17.5° | 2238.9 | 2228.8 | 2222.2 | 2225.5 | 2222.2 | 2218.9 | 2218.9 | 2212.2 | 2208.8 | 2212.2 | 2212.2 |
| 20°   | 2155.5 | 2148.9 | 2142.2 | 2145.6 | 2138.9 | 2135.5 | 2138.9 | 2128.9 | 2132.3 | 2132.3 | 2132.3 |
| 22.5° | 2062.2 | 2059.0 | 2048.9 | 2048.9 | 2042.2 | 2039.0 | 2042.2 | 2042.2 | 2045.6 | 2042.2 | 2042.2 |
| 25°   | 1959.0 | 1952.3 | 1945.7 | 1945.7 | 1942.3 | 1939.0 | 1942.3 | 1945.7 | 1942.3 | 1945.7 | 1945.7 |
| 27.5° | 1849.0 | 1839.1 | 1839.1 | 1832.4 | 1832.4 | 1835.7 | 1832.4 | 1835.7 | 1839.1 | 1839.1 | 1845.7 |
| 30°   | 1729.1 | 1725.8 | 1722.4 | 1719.1 | 1719.1 | 1722.4 | 1722.4 | 1722.4 | 1725.8 | 1732.5 | 1732.5 |
| 32.5° | 1615.8 | 1609.1 | 1602.5 | 1602.5 | 1609.1 | 1605.9 | 1609.1 | 1609.1 | 1615.8 | 1615.8 | 1622.5 |
| 35°   | 1492.6 | 1492.6 | 1485.9 | 1489.2 | 1489.2 | 1489.2 | 1489.2 | 1495.9 | 1502.5 | 1505.9 | 1512.6 |
| 37.5° | 1379.3 | 1369.2 | 1372.6 | 1372.6 | 1375.9 | 1372.6 | 1382.6 | 1382.6 | 1389.2 | 1389.2 | 1395.9 |
| 40°   | 1256.0 | 1256.0 | 1259.4 | 1256.0 | 1259.4 | 1259.4 | 1266.0 | 1272.7 | 1276.0 | 1282.6 | 1286.0 |
| 42.5° | 1139.4 | 1146.1 | 1139.4 | 1142.7 | 1146.1 | 1149.4 | 1152.8 | 1156.0 | 1169.4 | 1176.0 | 1186.1 |
| 45°   | 1032.8 | 1036.1 | 1039.5 | 1042.7 | 1039.5 | 1046.1 | 1049.4 | 1056.1 | 1066.1 | 1069.4 | 1072.8 |
| 47.5° | 929.5  | 932.9  | 936.1  | 939.5  | 939.5  | 946.2  | 949.5  | 956.1  | 962.8  | 966.2  | 969.5  |
| 50°   | 829.5  | 836.2  | 839.6  | 839.6  | 842.8  | 849.5  | 856.2  | 856.2  | 862.8  | 872.9  | 876.2  |
| 52.5° | 739.6  | 739.6  | 746.3  | 749.6  | 753.0  | 753.0  | 762.9  | 766.3  | 769.6  | 776.2  | 782.9  |
| 55°   | 639.7  | 649.6  | 653.0  | 653.0  | 659.7  | 666.3  | 669.6  | 673.0  | 673.0  | 686.3  | 686.3  |
| 57.5° | 553.1  | 556.3  | 563.0  | 563.0  | 563.0  | 573.0  | 573.0  | 579.7  | 583.0  | 586.4  | 593.0  |
| 60°   | 466.4  | 473.1  | 473.1  | 476.4  | 473.1  | 479.8  | 483.0  | 489.7  | 493.1  | 496.4  | 499.7  |
| 62.5° | 386.5  | 386.5  | 389.7  | 389.7  | 389.7  | 389.7  | 396.4  | 396.4  | 403.1  | 406.5  | 409.7  |
| 65°   | 309.8  | 309.8  | 309.8  | 309.8  | 309.8  | 309.8  | 309.8  | 309.8  | 313.2  | 313.2  | 319.8  |
| 67.5° | 239.9  | 236.5  | 229.8  | 233.2  | 229.8  | 229.8  | 226.6  | 226.6  | 229.8  | 229.8  | 236.5  |
| 70°   | 173.2  | 169.9  | 163.2  | 163.2  | 159.9  | 156.5  | 153.3  | 149.9  | 146.6  | 146.6  | 146.6  |
| 72.5° | 113.3  | 106.6  | 96.6   | 93.3   | 93.3   | 86.6   | 80.0   | 76.6   | 76.6   | 76.6   | 76.6   |
| 75°   | 56.6   | 49.9   | 43.3   | 40.0   | 40.0   | 33.3   | 36.6   | 33.3   | 33.3   | 33.3   | 33.3   |
| 77.5° | 23.3   | 16.6   | 13.3   | 13.3   | 13.3   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 80°   | 6.7    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 82.5° | 3.3    | 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: P584871

CATALOG NUMBER: HCC8W50D010SL-HM82555930-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 | 2495.3 |
| 2.5°  | 2482.0 | 2482.0 | 2475.4 | 2478.7 | 2478.7 | 2478.7 | 2478.7 | 2478.7 |
| 5°    | 2452.1 | 2455.4 | 2452.1 | 2455.4 | 2455.4 | 2452.1 | 2452.1 | 2452.1 |
| 7.5°  | 2422.1 | 2425.4 | 2422.1 | 2425.4 | 2425.4 | 2425.4 | 2422.1 | 2422.1 |
| 10°   | 2385.5 | 2385.5 | 2385.5 | 2385.5 | 2385.5 | 2382.1 | 2385.5 | 2385.5 |
| 12.5° | 2335.4 | 2335.4 | 2335.4 | 2338.8 | 2338.8 | 2335.4 | 2335.4 | 2332.2 |
| 15°   | 2282.1 | 2275.5 | 2278.8 | 2282.1 | 2278.8 | 2278.8 | 2278.8 | 2278.8 |
| 17.5° | 2208.8 | 2212.2 | 2208.8 | 2208.8 | 2208.8 | 2208.8 | 2212.2 | 2208.8 |
| 20°   | 2132.3 | 2132.3 | 2135.5 | 2132.3 | 2132.3 | 2132.3 | 2132.3 | 2128.9 |
| 22.5° | 2045.6 | 2042.2 | 2042.2 | 2045.6 | 2045.6 | 2042.2 | 2045.6 | 2045.6 |
| 25°   | 1949.0 | 1952.3 | 1949.0 | 1949.0 | 1952.3 | 1952.3 | 1952.3 | 1949.0 |
| 27.5° | 1845.7 | 1849.0 | 1852.4 | 1849.0 | 1849.0 | 1849.0 | 1852.4 | 1855.7 |
| 30°   | 1739.1 | 1745.8 | 1739.1 | 1739.1 | 1745.8 | 1742.4 | 1745.8 | 1745.8 |
| 32.5° | 1625.8 | 1635.8 | 1629.1 | 1635.8 | 1635.8 | 1639.2 | 1635.8 | 1639.2 |
| 35°   | 1512.6 | 1522.5 | 1522.5 | 1522.5 | 1525.9 | 1529.2 | 1529.2 | 1525.9 |
| 37.5° | 1406.0 | 1409.2 | 1409.2 | 1415.9 | 1419.3 | 1422.6 | 1422.6 | 1419.3 |
| 40°   | 1296.0 | 1302.6 | 1306.0 | 1306.0 | 1306.0 | 1312.7 | 1319.3 | 1312.7 |
| 42.5° | 1189.3 | 1192.7 | 1196.0 | 1196.0 | 1202.7 | 1206.1 | 1209.3 | 1209.3 |
| 45°   | 1086.1 | 1092.8 | 1096.1 | 1099.4 | 1102.7 | 1109.4 | 1106.1 | 1112.8 |
| 47.5° | 979.5  | 989.4  | 992.8  | 996.1  | 1002.8 | 1006.2 | 1009.4 | 1012.8 |
| 50°   | 882.8  | 889.5  | 889.5  | 896.2  | 906.2  | 906.2  | 912.9  | 916.1  |
| 52.5° | 786.3  | 789.5  | 792.9  | 796.2  | 802.9  | 809.5  | 809.5  | 816.2  |
| 55°   | 693.0  | 696.3  | 696.3  | 699.6  | 702.9  | 716.2  | 719.6  | 719.6  |
| 57.5° | 596.3  | 596.3  | 603.0  | 606.4  | 609.6  | 616.3  | 616.3  | 616.3  |
| 60°   | 503.0  | 506.4  | 506.4  | 509.7  | 513.1  | 519.7  | 523.0  | 519.7  |
| 62.5° | 409.7  | 413.1  | 413.1  | 416.4  | 423.1  | 426.5  | 423.1  | 423.1  |
| 65°   | 323.1  | 326.5  | 326.5  | 329.8  | 336.4  | 336.4  | 333.2  | 336.4  |
| 67.5° | 236.5  | 236.5  | 236.5  | 236.5  | 236.5  | 236.5  | 236.5  | 236.5  |
| 70°   | 149.9  | 146.6  | 143.2  | 146.6  | 146.6  | 146.6  | 143.2  | 149.9  |
| 72.5° | 73.3   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 73.3   |
| 75°   | 33.3   | 33.3   | 29.9   | 29.9   | 29.9   | 33.3   | 33.3   | 29.9   |
| 77.5° | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 80°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 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    |

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Scaled Data Report



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Scaled Data Report



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

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