

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: P593751

Luminaire Tested: **HCC8W40D010SL-HM82555950-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593751  
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: HCC8W40D010SL-HM82555950-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

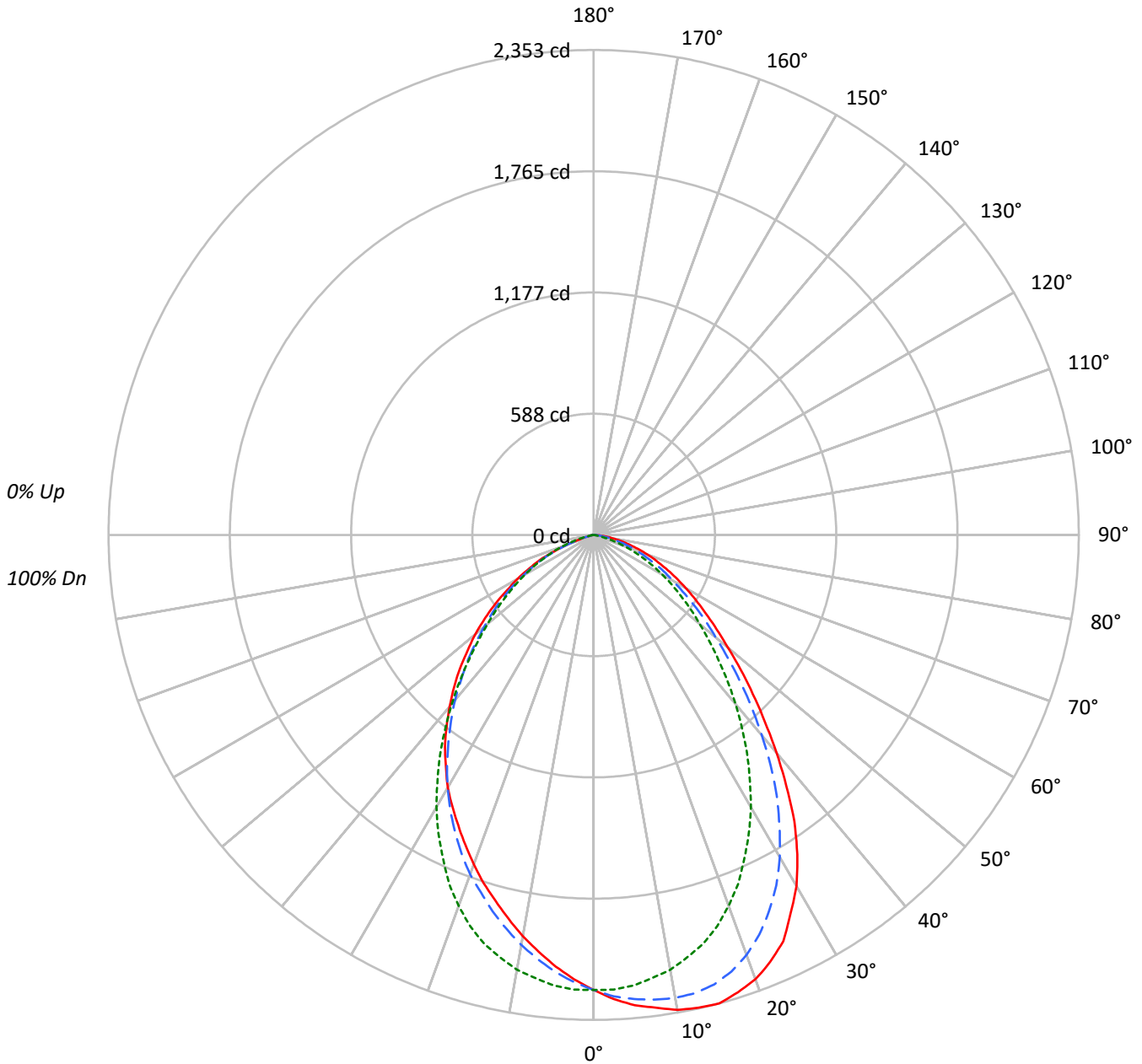
Lumens per Lamp: N/A  
Luminaire Lumens: 4113.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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°  | 68087 | 68087 | 68087 |
| 5°  | 70903 | 67944 | 65081 |
| 10° | 73273 | 67073 | 61907 |
| 15° | 75127 | 65540 | 58689 |
| 20° | 75278 | 62822 | 55779 |
| 25° | 74006 | 58845 | 52894 |
| 30° | 70046 | 54297 | 50419 |
| 35° | 63863 | 48828 | 47338 |
| 40° | 55538 | 43052 | 43712 |
| 45° | 47643 | 37281 | 40016 |
| 50° | 40691 | 32142 | 35941 |
| 55° | 35665 | 27682 | 31235 |
| 60° | 31755 | 23608 | 26260 |
| 65° | 28179 | 19270 | 20948 |
| 70° | 25001 | 14281 | 11901 |
| 75° | 20838 | 7470  | 3550  |
| 80° | 16426 | 2344  | 586   |
| 85° | 11676 | 1168  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 208.1  | 5.1       |
| 10°-20°   | 583.2  | 14.2      |
| 20°-30°   | 825.4  | 20.1      |
| 30°-40°   | 863.5  | 21.0      |
| 40°-50°   | 720.3  | 17.5      |
| 50°-60°   | 510.8  | 12.4      |
| 60°-70°   | 294.2  | 7.2       |
| 70°-80°   | 94.7   | 2.3       |
| 80°-90°   | 13.0   | 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°    | 1616.6 | 39.3      |
| 0°-40°    | 2480.2 | 60.3      |
| 0°-60°    | 3711.2 | 90.2      |
| 0°-90°    | 4113.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4113.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2208 | 2208 | 2208 | 2208 | 2208 |      |
| 5°  | 2291 | 2261 | 2195 | 2129 | 2102 | 220  |
| 15° | 2353 | 2258 | 2053 | 1891 | 1838 | 662  |
| 25° | 2175 | 2013 | 1730 | 1591 | 1555 | 993  |
| 35° | 1696 | 1548 | 1297 | 1228 | 1258 | 1052 |
| 45° | 1092 | 1003 | 855  | 865  | 918  | 847  |
| 55° | 663  | 594  | 515  | 541  | 581  | 599  |
| 65° | 386  | 323  | 264  | 264  | 287  | 386  |
| 75° | 175  | 129  | 63   | 30   | 30   | 190  |
| 85° | 33   | 16   | 3    | 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°    | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 |
| 2.5°  | 2254.3 | 2251.0 | 2247.7 | 2251.0 | 2247.7 | 2251.0 | 2247.7 | 2247.7 | 2244.5 | 2241.1 | 2241.1 |
| 5°    | 2290.6 | 2287.3 | 2287.3 | 2287.3 | 2284.0 | 2280.8 | 2280.8 | 2277.4 | 2270.8 | 2267.5 | 2260.9 |
| 7.5°  | 2313.7 | 2317.0 | 2317.0 | 2317.0 | 2310.4 | 2310.4 | 2303.8 | 2297.2 | 2290.6 | 2284.0 | 2274.1 |
| 10°   | 2340.1 | 2340.1 | 2336.8 | 2333.5 | 2326.9 | 2323.6 | 2320.4 | 2313.7 | 2303.8 | 2290.6 | 2280.8 |
| 12.5° | 2350.0 | 2350.0 | 2346.7 | 2340.1 | 2336.8 | 2333.5 | 2330.3 | 2320.4 | 2307.2 | 2290.6 | 2277.4 |
| 15°   | 2353.3 | 2346.7 | 2343.5 | 2340.1 | 2333.5 | 2323.6 | 2323.6 | 2310.4 | 2294.0 | 2274.1 | 2257.7 |
| 17.5° | 2326.9 | 2330.3 | 2323.6 | 2317.0 | 2307.2 | 2300.5 | 2290.6 | 2280.8 | 2260.9 | 2237.8 | 2221.3 |
| 20°   | 2294.0 | 2290.6 | 2287.3 | 2277.4 | 2264.2 | 2260.9 | 2251.0 | 2234.5 | 2218.0 | 2191.6 | 2168.5 |
| 22.5° | 2241.1 | 2237.8 | 2231.2 | 2224.6 | 2211.4 | 2204.8 | 2195.0 | 2175.1 | 2152.0 | 2125.6 | 2099.2 |
| 25°   | 2175.1 | 2168.5 | 2158.5 | 2145.3 | 2135.5 | 2128.9 | 2115.7 | 2095.8 | 2069.5 | 2039.8 | 2013.4 |
| 27.5° | 2069.5 | 2079.4 | 2072.7 | 2053.0 | 2043.1 | 2029.9 | 2026.6 | 2000.2 | 1977.1 | 1947.3 | 1917.7 |
| 30°   | 1967.2 | 1967.2 | 1957.3 | 1947.3 | 1930.9 | 1920.9 | 1907.7 | 1887.9 | 1864.8 | 1828.6 | 1805.5 |
| 32.5° | 1838.4 | 1835.1 | 1821.9 | 1818.7 | 1805.5 | 1785.6 | 1782.4 | 1756.0 | 1732.8 | 1706.5 | 1676.7 |
| 35°   | 1696.5 | 1689.9 | 1676.7 | 1666.8 | 1660.2 | 1650.3 | 1640.4 | 1617.3 | 1594.2 | 1567.8 | 1548.0 |
| 37.5° | 1534.7 | 1534.7 | 1531.5 | 1515.0 | 1508.3 | 1501.8 | 1491.9 | 1468.8 | 1455.6 | 1429.2 | 1409.3 |
| 40°   | 1379.7 | 1376.4 | 1366.5 | 1363.1 | 1356.6 | 1346.6 | 1340.1 | 1326.8 | 1307.1 | 1287.2 | 1267.5 |
| 42.5° | 1227.8 | 1231.2 | 1218.0 | 1221.2 | 1208.0 | 1201.4 | 1198.1 | 1178.3 | 1168.5 | 1148.6 | 1132.0 |
| 45°   | 1092.5 | 1089.2 | 1082.5 | 1079.3 | 1072.7 | 1066.1 | 1059.5 | 1049.6 | 1033.0 | 1013.3 | 1003.4 |
| 47.5° | 967.1  | 957.1  | 957.1  | 953.9  | 950.6  | 937.4  | 934.0  | 924.2  | 914.3  | 894.4  | 881.3  |
| 50°   | 848.2  | 848.2  | 848.2  | 844.9  | 835.0  | 831.8  | 825.1  | 815.3  | 805.4  | 792.2  | 772.3  |
| 52.5° | 752.6  | 752.6  | 752.6  | 749.2  | 736.0  | 732.7  | 729.5  | 716.3  | 703.1  | 693.2  | 680.0  |
| 55°   | 663.4  | 666.8  | 663.4  | 656.8  | 646.9  | 646.9  | 637.0  | 630.5  | 617.3  | 607.3  | 594.2  |
| 57.5° | 587.5  | 587.5  | 581.0  | 577.6  | 571.0  | 567.7  | 561.1  | 554.5  | 538.0  | 528.1  | 511.6  |
| 60°   | 514.9  | 511.6  | 511.6  | 505.0  | 498.4  | 491.8  | 488.5  | 478.6  | 472.0  | 455.5  | 442.3  |
| 62.5° | 448.9  | 448.9  | 442.3  | 442.3  | 429.1  | 429.1  | 425.8  | 415.9  | 406.0  | 389.5  | 382.8  |
| 65°   | 386.2  | 386.2  | 382.8  | 379.6  | 369.6  | 366.4  | 363.1  | 353.2  | 343.3  | 333.3  | 323.4  |
| 67.5° | 330.1  | 330.1  | 323.4  | 320.1  | 313.6  | 310.2  | 303.7  | 297.0  | 287.1  | 277.3  | 267.4  |
| 70°   | 277.3  | 273.9  | 270.6  | 267.4  | 260.7  | 257.4  | 250.9  | 244.2  | 234.3  | 227.8  | 217.9  |
| 72.5° | 224.4  | 224.4  | 221.1  | 214.6  | 211.2  | 207.9  | 204.7  | 198.0  | 188.1  | 178.3  | 171.6  |
| 75°   | 174.9  | 174.9  | 174.9  | 168.4  | 161.7  | 158.4  | 158.4  | 151.8  | 145.2  | 135.3  | 128.8  |
| 77.5° | 135.3  | 132.0  | 128.8  | 128.8  | 122.1  | 118.9  | 115.5  | 112.2  | 102.3  | 99.0   | 92.5   |
| 80°   | 92.5   | 95.7   | 92.5   | 89.1   | 85.8   | 82.5   | 82.5   | 75.9   | 72.6   | 66.0   | 59.4   |
| 82.5° | 62.7   | 59.4   | 59.4   | 56.2   | 56.2   | 52.8   | 52.8   | 46.2   | 43.0   | 39.6   | 36.3   |
| 85°   | 33.0   | 33.0   | 29.8   | 29.8   | 29.8   | 26.4   | 26.4   | 23.1   | 23.1   | 19.8   | 16.5   |
| 87.5° | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 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°    | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 |
| 2.5°  | 2237.8 | 2231.2 | 2227.9 | 2227.9 | 2224.6 | 2221.3 | 2218.0 | 2214.7 | 2208.0 | 2208.0 | 2201.5 |
| 5°    | 2254.3 | 2247.7 | 2244.5 | 2234.5 | 2227.9 | 2227.9 | 2214.7 | 2211.4 | 2201.5 | 2195.0 | 2188.3 |
| 7.5°  | 2267.5 | 2254.3 | 2244.5 | 2234.5 | 2227.9 | 2221.3 | 2208.0 | 2195.0 | 2181.7 | 2168.5 | 2161.9 |
| 10°   | 2267.5 | 2254.3 | 2237.8 | 2221.3 | 2214.7 | 2208.0 | 2191.6 | 2171.8 | 2155.3 | 2142.1 | 2125.6 |
| 12.5° | 2260.9 | 2241.1 | 2221.3 | 2208.0 | 2195.0 | 2185.0 | 2165.2 | 2145.3 | 2125.6 | 2099.2 | 2086.0 |
| 15°   | 2241.1 | 2214.7 | 2195.0 | 2171.8 | 2161.9 | 2145.3 | 2128.9 | 2099.2 | 2076.1 | 2053.0 | 2036.4 |
| 17.5° | 2201.5 | 2168.5 | 2145.3 | 2122.2 | 2105.8 | 2095.8 | 2069.5 | 2043.1 | 2016.7 | 1990.3 | 1970.4 |
| 20°   | 2142.1 | 2112.4 | 2086.0 | 2056.3 | 2043.1 | 2029.9 | 1996.8 | 1970.4 | 1944.1 | 1914.4 | 1894.6 |
| 22.5° | 2069.5 | 2039.8 | 2003.5 | 1980.4 | 1960.5 | 1944.1 | 1914.4 | 1884.6 | 1858.2 | 1831.9 | 1805.5 |
| 25°   | 1980.4 | 1950.6 | 1917.7 | 1881.4 | 1868.2 | 1851.6 | 1818.7 | 1788.9 | 1759.2 | 1729.5 | 1706.5 |
| 27.5° | 1884.6 | 1845.0 | 1818.7 | 1779.0 | 1765.8 | 1749.3 | 1713.0 | 1680.0 | 1653.6 | 1630.5 | 1604.1 |
| 30°   | 1769.2 | 1739.4 | 1703.1 | 1666.8 | 1653.6 | 1637.1 | 1607.3 | 1577.7 | 1551.3 | 1524.9 | 1498.4 |
| 32.5° | 1643.7 | 1614.0 | 1577.7 | 1551.3 | 1531.5 | 1518.3 | 1488.6 | 1462.2 | 1435.7 | 1409.3 | 1386.2 |
| 35°   | 1511.7 | 1478.7 | 1452.3 | 1425.9 | 1409.3 | 1392.9 | 1363.1 | 1340.1 | 1320.2 | 1297.1 | 1274.0 |
| 37.5° | 1376.4 | 1353.3 | 1326.8 | 1297.1 | 1280.7 | 1267.5 | 1244.4 | 1218.0 | 1201.4 | 1181.7 | 1165.1 |
| 40°   | 1244.4 | 1218.0 | 1194.8 | 1168.5 | 1155.3 | 1145.3 | 1122.2 | 1102.4 | 1085.9 | 1069.5 | 1059.5 |
| 42.5° | 1109.0 | 1085.9 | 1062.8 | 1046.2 | 1036.4 | 1026.5 | 1010.0 | 986.9  | 977.0  | 960.4  | 950.6  |
| 45°   | 983.5  | 963.8  | 947.2  | 924.2  | 917.6  | 910.9  | 891.2  | 874.6  | 864.8  | 854.9  | 848.2  |
| 47.5° | 864.8  | 851.6  | 831.8  | 818.6  | 808.6  | 802.1  | 788.9  | 775.6  | 765.8  | 759.1  | 752.6  |
| 50°   | 762.4  | 745.9  | 732.7  | 719.5  | 712.9  | 703.1  | 689.8  | 683.2  | 676.6  | 670.0  | 670.0  |
| 52.5° | 666.8  | 650.2  | 637.0  | 627.1  | 620.5  | 613.9  | 604.0  | 600.7  | 594.2  | 594.2  | 590.8  |
| 55°   | 577.6  | 567.7  | 554.5  | 541.3  | 538.0  | 534.7  | 528.1  | 521.5  | 518.2  | 514.9  | 518.2  |
| 57.5° | 501.7  | 491.8  | 478.6  | 468.7  | 465.4  | 462.1  | 458.7  | 452.2  | 448.9  | 448.9  | 448.9  |
| 60°   | 432.3  | 422.4  | 412.6  | 402.7  | 402.7  | 396.0  | 392.8  | 389.5  | 386.2  | 382.8  | 382.8  |
| 62.5° | 369.6  | 359.7  | 349.9  | 343.3  | 340.0  | 336.7  | 330.1  | 326.8  | 323.4  | 323.4  | 320.1  |
| 65°   | 313.6  | 300.4  | 297.0  | 287.1  | 283.8  | 280.6  | 277.3  | 270.6  | 267.4  | 264.1  | 260.7  |
| 67.5° | 257.4  | 250.9  | 241.0  | 234.3  | 231.1  | 227.8  | 224.4  | 217.9  | 214.6  | 211.2  | 204.7  |
| 70°   | 207.9  | 201.3  | 194.7  | 188.1  | 184.8  | 181.5  | 174.9  | 168.4  | 165.1  | 158.4  | 148.5  |
| 72.5° | 161.7  | 155.2  | 148.5  | 142.0  | 138.6  | 135.3  | 128.8  | 122.1  | 115.5  | 108.9  | 102.3  |
| 75°   | 122.1  | 115.5  | 105.7  | 99.0   | 95.7   | 95.7   | 85.8   | 79.3   | 72.6   | 62.7   | 56.2   |
| 77.5° | 85.8   | 75.9   | 72.6   | 66.0   | 62.7   | 56.2   | 49.5   | 43.0   | 36.3   | 33.0   | 26.4   |
| 80°   | 56.2   | 49.5   | 43.0   | 39.6   | 36.3   | 33.0   | 29.8   | 23.1   | 16.5   | 13.2   | 9.9    |
| 82.5° | 33.0   | 29.8   | 26.4   | 23.1   | 19.8   | 16.5   | 13.2   | 13.2   | 9.9    | 6.5    | 3.3    |
| 85°   | 16.5   | 13.2   | 9.9    | 9.9    | 6.5    | 6.5    | 6.5    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 6.5    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 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: P593751

CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 |
| 2.5°  | 2198.2 | 2195.0 | 2191.6 | 2188.3 | 2188.3 | 2181.7 | 2181.7 | 2178.4 | 2171.8 | 2168.5 | 2168.5 |
| 5°    | 2178.4 | 2168.5 | 2161.9 | 2158.5 | 2155.3 | 2145.3 | 2142.1 | 2135.5 | 2128.9 | 2122.2 | 2119.0 |
| 7.5°  | 2148.7 | 2132.2 | 2125.6 | 2122.2 | 2112.4 | 2102.5 | 2095.8 | 2086.0 | 2076.1 | 2066.2 | 2062.9 |
| 10°   | 2112.4 | 2095.8 | 2079.4 | 2072.7 | 2062.9 | 2056.3 | 2043.1 | 2029.9 | 2020.0 | 2010.0 | 2000.2 |
| 12.5° | 2066.2 | 2046.3 | 2029.9 | 2023.2 | 2013.4 | 2000.2 | 1980.4 | 1973.7 | 1957.3 | 1950.6 | 1937.4 |
| 15°   | 2013.4 | 1990.3 | 1973.7 | 1963.9 | 1954.0 | 1934.1 | 1920.9 | 1907.7 | 1891.3 | 1884.6 | 1871.4 |
| 17.5° | 1947.3 | 1920.9 | 1904.5 | 1894.6 | 1887.9 | 1871.4 | 1851.6 | 1835.1 | 1818.7 | 1812.0 | 1802.1 |
| 20°   | 1868.2 | 1851.6 | 1828.6 | 1818.7 | 1812.0 | 1792.3 | 1772.4 | 1765.8 | 1752.6 | 1739.4 | 1729.5 |
| 22.5° | 1779.0 | 1762.5 | 1739.4 | 1729.5 | 1726.2 | 1709.7 | 1693.3 | 1683.3 | 1673.4 | 1663.5 | 1653.6 |
| 25°   | 1686.6 | 1666.8 | 1647.0 | 1640.4 | 1633.8 | 1620.5 | 1607.3 | 1600.8 | 1590.9 | 1584.2 | 1577.7 |
| 27.5° | 1587.6 | 1567.8 | 1551.3 | 1541.4 | 1534.7 | 1524.9 | 1518.3 | 1511.7 | 1505.1 | 1498.4 | 1495.1 |
| 30°   | 1482.0 | 1462.2 | 1448.9 | 1442.4 | 1435.7 | 1432.4 | 1422.5 | 1419.3 | 1416.0 | 1409.3 | 1412.6 |
| 32.5° | 1376.4 | 1359.8 | 1346.6 | 1336.7 | 1336.7 | 1330.2 | 1326.8 | 1326.8 | 1323.5 | 1323.5 | 1323.5 |
| 35°   | 1260.8 | 1250.9 | 1241.1 | 1237.7 | 1234.4 | 1231.2 | 1227.8 | 1231.2 | 1227.8 | 1231.2 | 1234.4 |
| 37.5° | 1155.3 | 1145.3 | 1138.7 | 1135.4 | 1132.0 | 1135.4 | 1132.0 | 1132.0 | 1135.4 | 1142.0 | 1145.3 |
| 40°   | 1046.2 | 1039.7 | 1033.0 | 1036.4 | 1033.0 | 1033.0 | 1033.0 | 1043.0 | 1046.2 | 1049.6 | 1052.9 |
| 42.5° | 944.0  | 937.4  | 934.0  | 934.0  | 937.4  | 934.0  | 940.7  | 944.0  | 950.6  | 960.4  | 967.1  |
| 45°   | 844.9  | 841.7  | 841.7  | 844.9  | 841.7  | 848.2  | 848.2  | 854.9  | 864.8  | 871.3  | 878.0  |
| 47.5° | 752.6  | 752.6  | 752.6  | 755.9  | 755.9  | 759.1  | 765.8  | 769.1  | 775.6  | 782.2  | 788.9  |
| 50°   | 666.8  | 670.0  | 673.3  | 673.3  | 673.3  | 680.0  | 686.5  | 689.8  | 693.2  | 696.4  | 706.4  |
| 52.5° | 590.8  | 594.2  | 594.2  | 597.4  | 600.7  | 604.0  | 607.3  | 613.9  | 617.3  | 623.8  | 627.1  |
| 55°   | 518.2  | 518.2  | 524.8  | 528.1  | 528.1  | 528.1  | 534.7  | 534.7  | 541.3  | 544.5  | 551.2  |
| 57.5° | 448.9  | 452.2  | 452.2  | 455.5  | 455.5  | 458.7  | 462.1  | 465.4  | 468.7  | 472.0  | 475.3  |
| 60°   | 382.8  | 382.8  | 382.8  | 386.2  | 389.5  | 392.8  | 389.5  | 396.0  | 396.0  | 402.7  | 406.0  |
| 62.5° | 320.1  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  | 326.8  | 330.1  | 333.3  | 336.7  |
| 65°   | 260.7  | 260.7  | 260.7  | 257.4  | 260.7  | 257.4  | 260.7  | 264.1  | 264.1  | 267.4  | 270.6  |
| 67.5° | 201.3  | 201.3  | 194.7  | 194.7  | 198.0  | 198.0  | 198.0  | 198.0  | 194.7  | 201.3  | 201.3  |
| 70°   | 145.2  | 142.0  | 138.6  | 135.3  | 135.3  | 132.0  | 132.0  | 128.8  | 128.8  | 128.8  | 128.8  |
| 72.5° | 95.7   | 89.1   | 82.5   | 79.3   | 75.9   | 75.9   | 69.3   | 66.0   | 69.3   | 69.3   | 69.3   |
| 75°   | 49.5   | 43.0   | 39.6   | 36.3   | 33.0   | 33.0   | 29.8   | 29.8   | 29.8   | 29.8   | 29.8   |
| 77.5° | 19.8   | 16.5   | 13.2   | 13.2   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 80°   | 6.5    | 6.5    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 82.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 3.3    | 0.0    | 0.0    | 3.3    | 0.0    | 3.3    | 3.3    | 3.3    | 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  
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 Peachtree City, GA 30269



TEST NUMBER: P593751

CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 | 2208.0 |
| 2.5°  | 2165.2 | 2165.2 | 2161.9 | 2165.2 | 2158.5 | 2161.9 | 2158.5 | 2158.5 |
| 5°    | 2115.7 | 2109.0 | 2109.0 | 2109.0 | 2105.8 | 2105.8 | 2102.5 | 2102.5 |
| 7.5°  | 2056.3 | 2053.0 | 2049.7 | 2046.3 | 2043.1 | 2039.8 | 2039.8 | 2039.8 |
| 10°   | 1996.8 | 1990.3 | 1990.3 | 1986.9 | 1980.4 | 1977.1 | 1977.1 | 1977.1 |
| 12.5° | 1927.6 | 1924.2 | 1920.9 | 1920.9 | 1907.7 | 1911.0 | 1907.7 | 1907.7 |
| 15°   | 1861.5 | 1858.2 | 1858.2 | 1848.3 | 1841.8 | 1841.8 | 1841.8 | 1838.4 |
| 17.5° | 1792.3 | 1788.9 | 1785.6 | 1779.0 | 1772.4 | 1772.4 | 1769.2 | 1772.4 |
| 20°   | 1719.7 | 1716.3 | 1709.7 | 1709.7 | 1706.5 | 1703.1 | 1696.5 | 1699.8 |
| 22.5° | 1647.0 | 1640.4 | 1637.1 | 1637.1 | 1633.8 | 1633.8 | 1627.2 | 1627.2 |
| 25°   | 1571.0 | 1567.8 | 1564.5 | 1567.8 | 1561.2 | 1561.2 | 1554.6 | 1554.6 |
| 27.5° | 1491.9 | 1488.6 | 1488.6 | 1488.6 | 1485.2 | 1488.6 | 1485.2 | 1485.2 |
| 30°   | 1412.6 | 1412.6 | 1409.3 | 1409.3 | 1412.6 | 1409.3 | 1412.6 | 1416.0 |
| 32.5° | 1326.8 | 1326.8 | 1330.2 | 1330.2 | 1333.4 | 1333.4 | 1333.4 | 1333.4 |
| 35°   | 1237.7 | 1244.4 | 1244.4 | 1247.6 | 1250.9 | 1254.3 | 1254.3 | 1257.5 |
| 37.5° | 1155.3 | 1158.5 | 1161.8 | 1165.1 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |
| 40°   | 1066.1 | 1069.5 | 1076.0 | 1072.7 | 1085.9 | 1089.2 | 1085.9 | 1085.9 |
| 42.5° | 973.7  | 980.3  | 983.5  | 990.2  | 993.5  | 1000.1 | 1003.4 | 1003.4 |
| 45°   | 887.9  | 891.2  | 897.7  | 904.4  | 907.6  | 917.6  | 917.6  | 917.6  |
| 47.5° | 798.7  | 805.4  | 808.6  | 815.3  | 818.6  | 828.5  | 831.8  | 828.5  |
| 50°   | 712.9  | 719.5  | 726.1  | 726.1  | 736.0  | 739.3  | 745.9  | 749.2  |
| 52.5° | 630.5  | 633.7  | 640.3  | 643.7  | 650.2  | 656.8  | 660.1  | 663.4  |
| 55°   | 551.2  | 554.5  | 561.1  | 561.1  | 571.0  | 574.3  | 581.0  | 581.0  |
| 57.5° | 478.6  | 481.8  | 488.5  | 485.2  | 491.8  | 498.4  | 498.4  | 495.0  |
| 60°   | 409.2  | 409.2  | 409.2  | 415.9  | 419.1  | 422.4  | 425.8  | 425.8  |
| 62.5° | 336.7  | 343.3  | 346.5  | 346.5  | 349.9  | 353.2  | 353.2  | 349.9  |
| 65°   | 270.6  | 277.3  | 280.6  | 280.6  | 283.8  | 283.8  | 283.8  | 287.1  |
| 67.5° | 204.7  | 204.7  | 204.7  | 207.9  | 204.7  | 204.7  | 204.7  | 204.7  |
| 70°   | 128.8  | 128.8  | 128.8  | 128.8  | 125.4  | 128.8  | 128.8  | 132.0  |
| 72.5° | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   |
| 75°   | 29.8   | 29.8   | 29.8   | 33.0   | 29.8   | 29.8   | 29.8   | 29.8   |
| 77.5° | 13.2   | 9.9    | 13.2   | 13.2   | 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° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 0.0    | 3.3    | 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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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



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(END OF REPORT)