

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: P593749

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593749  
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: HCC8W40D010SL-HM82555950-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

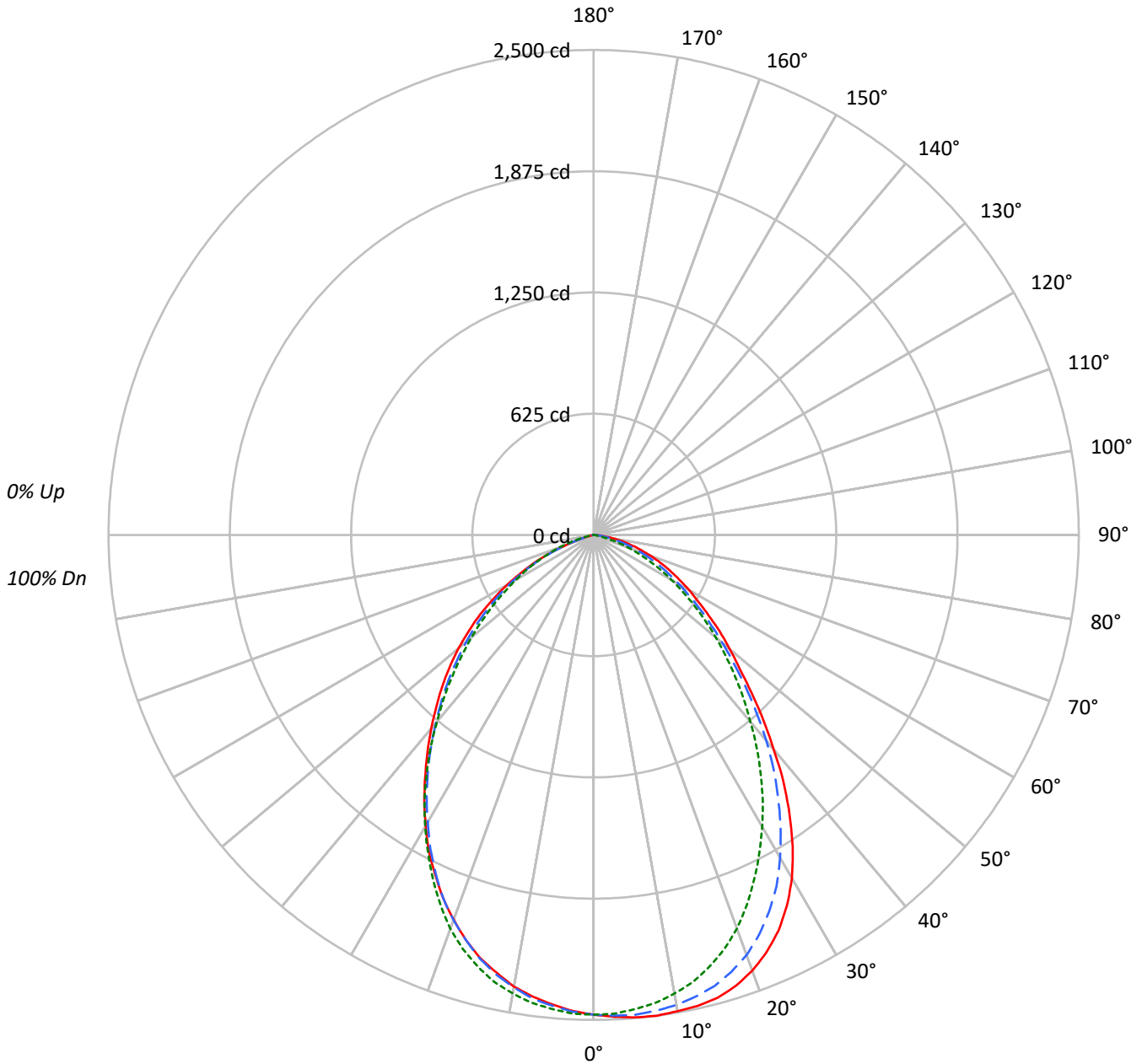
Lumens per Lamp: N/A  
Luminaire Lumens: 4700.6 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |     | 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°  | 76267 | 76267 | 76267 |
| 5°  | 77274 | 75943 | 75228 |
| 10° | 78061 | 75168 | 74031 |
| 15° | 78853 | 73579 | 72104 |
| 20° | 78452 | 70868 | 69240 |
| 25° | 76626 | 66623 | 65724 |
| 30° | 72777 | 61845 | 61610 |
| 35° | 66254 | 56436 | 56933 |
| 40° | 58086 | 50507 | 52370 |
| 45° | 50111 | 44930 | 48097 |
| 50° | 43876 | 39443 | 43564 |
| 55° | 38880 | 33907 | 38348 |
| 60° | 35030 | 28511 | 31774 |
| 65° | 31565 | 22889 | 24341 |
| 70° | 27688 | 16670 | 13398 |
| 75° | 23602 | 8650  | 3550  |
| 80° | 18166 | 2344  | 586   |
| 85° | 11676 | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.3  | 5.0       |
| 10°-20°   | 656.0  | 14.0      |
| 20°-30°   | 931.1  | 19.8      |
| 30°-40°   | 980.1  | 20.9      |
| 40°-50°   | 833.8  | 17.7      |
| 50°-60°   | 602.5  | 12.8      |
| 60°-70°   | 342.7  | 7.3       |
| 70°-80°   | 108.0  | 2.3       |
| 80°-90°   | 13.1   | 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°    | 1820.4 | 38.7      |
| 0°-40°    | 2800.5 | 59.6      |
| 0°-60°    | 4236.8 | 90.1      |
| 0°-90°    | 4700.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4700.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2473 | 2473 | 2473 | 2473 | 2473 |      |
| 5°  | 2496 | 2483 | 2453 | 2437 | 2430 | 238  |
| 15° | 2470 | 2407 | 2305 | 2262 | 2259 | 696  |
| 25° | 2252 | 2140 | 1958 | 1925 | 1932 | 1031 |
| 35° | 1760 | 1658 | 1499 | 1489 | 1512 | 1095 |
| 45° | 1149 | 1106 | 1030 | 1057 | 1103 | 893  |
| 55° | 723  | 670  | 631  | 667  | 713  | 652  |
| 65° | 433  | 373  | 314  | 310  | 334  | 429  |
| 75° | 198  | 152  | 73   | 33   | 30   | 213  |
| 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°    | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 |
| 2.5°  | 2486.5 | 2489.7 | 2483.2 | 2483.2 | 2489.7 | 2483.2 | 2486.5 | 2486.5 | 2483.2 | 2483.2 | 2479.8 |
| 5°    | 2496.4 | 2493.0 | 2493.0 | 2493.0 | 2496.4 | 2489.7 | 2486.5 | 2489.7 | 2483.2 | 2483.2 | 2483.2 |
| 7.5°  | 2499.7 | 2499.7 | 2496.4 | 2493.0 | 2493.0 | 2493.0 | 2489.7 | 2486.5 | 2483.2 | 2476.5 | 2473.3 |
| 10°   | 2493.0 | 2493.0 | 2496.4 | 2489.7 | 2489.7 | 2483.2 | 2483.2 | 2476.5 | 2476.5 | 2470.0 | 2460.1 |
| 12.5° | 2486.5 | 2483.2 | 2483.2 | 2476.5 | 2476.5 | 2470.0 | 2470.0 | 2460.1 | 2456.8 | 2446.9 | 2436.9 |
| 15°   | 2470.0 | 2466.6 | 2460.1 | 2456.8 | 2453.4 | 2450.1 | 2443.5 | 2440.2 | 2430.3 | 2417.1 | 2407.3 |
| 17.5° | 2436.9 | 2433.7 | 2430.3 | 2423.7 | 2417.1 | 2413.8 | 2410.5 | 2400.6 | 2387.4 | 2377.5 | 2361.0 |
| 20°   | 2390.7 | 2387.4 | 2387.4 | 2377.5 | 2374.2 | 2364.3 | 2361.0 | 2347.8 | 2337.9 | 2318.0 | 2304.8 |
| 22.5° | 2328.0 | 2331.2 | 2324.7 | 2318.0 | 2311.5 | 2301.6 | 2294.9 | 2281.7 | 2265.3 | 2245.4 | 2228.9 |
| 25°   | 2252.1 | 2255.3 | 2248.7 | 2242.1 | 2232.2 | 2225.7 | 2219.0 | 2199.2 | 2182.7 | 2159.6 | 2139.7 |
| 27.5° | 2156.3 | 2156.3 | 2156.3 | 2149.6 | 2133.2 | 2129.9 | 2123.2 | 2103.4 | 2080.4 | 2060.5 | 2040.7 |
| 30°   | 2043.9 | 2040.7 | 2040.7 | 2030.7 | 2024.2 | 2011.0 | 2001.1 | 1984.6 | 1968.0 | 1944.9 | 1921.8 |
| 32.5° | 1908.6 | 1911.9 | 1902.0 | 1895.4 | 1885.4 | 1885.4 | 1872.2 | 1859.0 | 1839.3 | 1816.2 | 1793.0 |
| 35°   | 1760.0 | 1763.3 | 1756.7 | 1753.3 | 1736.9 | 1733.6 | 1730.3 | 1713.7 | 1700.6 | 1684.1 | 1657.7 |
| 37.5° | 1608.2 | 1604.8 | 1601.5 | 1601.5 | 1591.6 | 1585.0 | 1578.4 | 1568.5 | 1548.7 | 1535.5 | 1522.2 |
| 40°   | 1443.0 | 1443.0 | 1443.0 | 1439.7 | 1436.4 | 1429.8 | 1426.5 | 1419.9 | 1406.7 | 1393.5 | 1383.6 |
| 42.5° | 1294.4 | 1294.4 | 1291.1 | 1287.8 | 1281.2 | 1284.5 | 1277.9 | 1271.3 | 1258.1 | 1248.2 | 1241.5 |
| 45°   | 1149.1 | 1149.1 | 1149.1 | 1152.4 | 1145.9 | 1136.0 | 1136.0 | 1129.3 | 1122.8 | 1116.1 | 1106.2 |
| 47.5° | 1020.3 | 1030.3 | 1023.6 | 1020.3 | 1023.6 | 1010.4 | 1010.4 | 1003.9 | 997.2  | 990.7  | 977.5  |
| 50°   | 914.6  | 914.6  | 914.6  | 908.1  | 904.8  | 904.8  | 894.9  | 888.2  | 885.0  | 878.3  | 865.1  |
| 52.5° | 819.0  | 812.3  | 812.3  | 809.0  | 805.7  | 799.1  | 799.1  | 792.5  | 779.3  | 772.7  | 762.8  |
| 55°   | 723.2  | 723.2  | 719.8  | 716.5  | 713.3  | 710.0  | 706.6  | 696.7  | 690.1  | 680.2  | 670.3  |
| 57.5° | 637.2  | 643.9  | 640.6  | 634.0  | 627.4  | 627.4  | 620.8  | 614.2  | 604.3  | 594.4  | 584.4  |
| 60°   | 568.0  | 564.7  | 564.7  | 561.3  | 554.8  | 551.4  | 548.1  | 538.2  | 528.4  | 518.5  | 508.5  |
| 62.5° | 495.3  | 495.3  | 495.3  | 488.7  | 482.1  | 478.9  | 475.5  | 468.9  | 455.7  | 445.8  | 439.2  |
| 65°   | 432.6  | 429.2  | 426.0  | 422.7  | 419.4  | 412.8  | 409.5  | 402.8  | 392.9  | 383.1  | 373.2  |
| 67.5° | 369.9  | 366.5  | 366.5  | 363.2  | 353.3  | 350.0  | 350.0  | 340.1  | 330.2  | 320.3  | 310.4  |
| 70°   | 307.1  | 307.1  | 307.1  | 300.5  | 297.1  | 293.9  | 290.6  | 283.9  | 274.1  | 264.2  | 254.3  |
| 72.5° | 254.3  | 251.0  | 251.0  | 247.6  | 237.8  | 234.4  | 231.1  | 224.6  | 214.7  | 208.0  | 201.5  |
| 75°   | 198.1  | 198.1  | 194.8  | 191.5  | 188.3  | 184.9  | 181.6  | 175.0  | 165.1  | 155.2  | 151.8  |
| 77.5° | 151.8  | 148.6  | 148.6  | 145.3  | 138.6  | 135.4  | 135.4  | 128.8  | 118.9  | 112.2  | 105.7  |
| 80°   | 102.3  | 105.7  | 102.3  | 99.0   | 95.8   | 92.5   | 89.1   | 85.8   | 79.3   | 72.6   | 66.0   |
| 82.5° | 62.7   | 66.0   | 62.7   | 62.7   | 59.4   | 56.2   | 56.2   | 49.5   | 46.2   | 43.0   | 39.6   |
| 85°   | 33.0   | 33.0   | 33.0   | 33.0   | 29.8   | 29.8   | 29.8   | 26.4   | 23.1   | 19.8   | 19.8   |
| 87.5° | 9.9    | 13.2   | 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°    | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 |
| 2.5°  | 2483.2 | 2479.8 | 2476.5 | 2476.5 | 2476.5 | 2476.5 | 2476.5 | 2473.3 | 2470.0 | 2470.0 | 2470.0 |
| 5°    | 2476.5 | 2476.5 | 2476.5 | 2473.3 | 2470.0 | 2470.0 | 2463.3 | 2460.1 | 2456.8 | 2453.4 | 2450.1 |
| 7.5°  | 2470.0 | 2463.3 | 2460.1 | 2456.8 | 2453.4 | 2453.4 | 2446.9 | 2440.2 | 2440.2 | 2433.7 | 2427.0 |
| 10°   | 2450.1 | 2446.9 | 2440.2 | 2433.7 | 2430.3 | 2427.0 | 2420.5 | 2410.5 | 2407.3 | 2400.6 | 2394.0 |
| 12.5° | 2427.0 | 2420.5 | 2413.8 | 2400.6 | 2397.3 | 2394.0 | 2380.8 | 2370.8 | 2364.3 | 2361.0 | 2344.4 |
| 15°   | 2397.3 | 2384.0 | 2374.2 | 2357.6 | 2354.4 | 2347.8 | 2337.9 | 2328.0 | 2314.8 | 2304.8 | 2298.2 |
| 17.5° | 2344.4 | 2331.2 | 2314.8 | 2298.2 | 2291.6 | 2291.6 | 2275.2 | 2262.0 | 2245.4 | 2238.9 | 2225.7 |
| 20°   | 2281.7 | 2265.3 | 2252.1 | 2232.2 | 2222.3 | 2212.4 | 2202.5 | 2182.7 | 2169.5 | 2159.6 | 2143.1 |
| 22.5° | 2209.1 | 2186.0 | 2169.5 | 2149.6 | 2133.2 | 2123.2 | 2106.8 | 2090.2 | 2073.7 | 2063.8 | 2050.6 |
| 25°   | 2116.7 | 2096.8 | 2070.4 | 2050.6 | 2040.7 | 2027.5 | 2007.6 | 1991.1 | 1974.7 | 1958.1 | 1951.5 |
| 27.5° | 2014.3 | 1987.9 | 1964.7 | 1941.6 | 1931.7 | 1921.8 | 1898.6 | 1878.9 | 1865.7 | 1849.1 | 1842.6 |
| 30°   | 1902.0 | 1875.6 | 1849.1 | 1829.4 | 1819.4 | 1803.0 | 1789.8 | 1766.6 | 1750.1 | 1736.9 | 1720.4 |
| 32.5° | 1773.2 | 1753.3 | 1730.3 | 1700.6 | 1694.0 | 1680.8 | 1661.0 | 1651.0 | 1631.3 | 1621.4 | 1608.2 |
| 35°   | 1634.6 | 1621.4 | 1598.2 | 1575.1 | 1565.2 | 1558.5 | 1542.1 | 1522.2 | 1509.0 | 1499.2 | 1492.5 |
| 37.5° | 1502.5 | 1486.0 | 1462.9 | 1446.3 | 1439.7 | 1429.8 | 1410.0 | 1400.0 | 1386.8 | 1380.3 | 1367.1 |
| 40°   | 1360.4 | 1344.0 | 1327.4 | 1317.6 | 1307.6 | 1301.0 | 1287.8 | 1277.9 | 1264.7 | 1254.7 | 1251.5 |
| 42.5° | 1221.8 | 1211.9 | 1198.7 | 1185.5 | 1182.1 | 1172.3 | 1165.6 | 1155.7 | 1145.9 | 1142.5 | 1132.6 |
| 45°   | 1096.3 | 1086.4 | 1073.1 | 1059.9 | 1056.7 | 1050.1 | 1046.7 | 1036.8 | 1030.3 | 1030.3 | 1030.3 |
| 47.5° | 970.8  | 960.9  | 947.7  | 941.1  | 944.4  | 931.2  | 931.2  | 927.8  | 921.3  | 921.3  | 924.6  |
| 50°   | 858.6  | 845.4  | 842.0  | 835.4  | 828.8  | 822.2  | 825.5  | 815.6  | 815.6  | 822.2  | 819.0  |
| 52.5° | 752.9  | 739.7  | 736.4  | 729.7  | 726.5  | 726.5  | 723.2  | 723.2  | 719.8  | 723.2  | 723.2  |
| 55°   | 657.1  | 647.2  | 640.6  | 634.0  | 630.7  | 630.7  | 630.7  | 627.4  | 624.0  | 630.7  | 634.0  |
| 57.5° | 571.2  | 568.0  | 561.3  | 551.4  | 548.1  | 544.9  | 541.6  | 541.6  | 541.6  | 541.6  | 544.9  |
| 60°   | 495.3  | 488.7  | 482.1  | 472.2  | 472.2  | 468.9  | 465.6  | 462.3  | 462.3  | 462.3  | 462.3  |
| 62.5° | 429.2  | 419.4  | 409.5  | 402.8  | 399.6  | 396.3  | 392.9  | 386.4  | 386.4  | 386.4  | 386.4  |
| 65°   | 363.2  | 353.3  | 346.8  | 340.1  | 333.6  | 333.6  | 326.9  | 323.6  | 317.0  | 313.7  | 307.1  |
| 67.5° | 300.5  | 293.9  | 287.3  | 277.4  | 274.1  | 270.7  | 264.2  | 260.8  | 251.0  | 247.6  | 244.3  |
| 70°   | 244.3  | 234.4  | 227.9  | 221.2  | 217.9  | 211.3  | 204.7  | 198.1  | 191.5  | 184.9  | 178.3  |
| 72.5° | 191.5  | 181.6  | 175.0  | 168.4  | 161.8  | 161.8  | 151.8  | 145.3  | 135.4  | 128.8  | 118.9  |
| 75°   | 142.0  | 132.1  | 125.4  | 115.5  | 112.2  | 109.0  | 99.0   | 92.5   | 82.6   | 72.6   | 66.0   |
| 77.5° | 95.8   | 89.1   | 82.6   | 72.6   | 66.0   | 66.0   | 56.2   | 49.5   | 43.0   | 33.0   | 29.8   |
| 80°   | 59.4   | 52.8   | 46.2   | 39.6   | 39.6   | 33.0   | 29.8   | 23.1   | 16.5   | 13.2   | 9.9    |
| 82.5° | 33.0   | 29.8   | 26.4   | 19.8   | 19.8   | 16.5   | 13.2   | 9.9    | 6.5    | 3.3    | 3.3    |
| 85°   | 16.5   | 13.2   | 9.9    | 9.9    | 6.5    | 6.5    | 6.5    | 3.3    | 3.3    | 0.0    | 0.0    |
| 87.5° | 6.5    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 |
| 2.5°  | 2466.6 | 2466.6 | 2463.3 | 2463.3 | 2463.3 | 2460.1 | 2463.3 | 2460.1 | 2460.1 | 2460.1 | 2463.3 |
| 5°    | 2453.4 | 2446.9 | 2446.9 | 2443.5 | 2443.5 | 2440.2 | 2443.5 | 2440.2 | 2436.9 | 2433.7 | 2436.9 |
| 7.5°  | 2427.0 | 2420.5 | 2417.1 | 2413.8 | 2413.8 | 2413.8 | 2410.5 | 2407.3 | 2410.5 | 2400.6 | 2407.3 |
| 10°   | 2390.7 | 2387.4 | 2380.8 | 2377.5 | 2374.2 | 2377.5 | 2374.2 | 2367.6 | 2367.6 | 2367.6 | 2364.3 |
| 12.5° | 2344.4 | 2337.9 | 2334.5 | 2331.2 | 2324.7 | 2324.7 | 2328.0 | 2321.3 | 2321.3 | 2314.8 | 2314.8 |
| 15°   | 2288.4 | 2281.7 | 2275.2 | 2275.2 | 2268.5 | 2268.5 | 2265.3 | 2265.3 | 2262.0 | 2258.6 | 2258.6 |
| 17.5° | 2219.0 | 2209.1 | 2202.5 | 2205.8 | 2202.5 | 2199.2 | 2199.2 | 2192.6 | 2189.2 | 2192.6 | 2192.6 |
| 20°   | 2136.4 | 2129.9 | 2123.2 | 2126.5 | 2120.0 | 2116.7 | 2120.0 | 2110.0 | 2113.3 | 2113.3 | 2113.3 |
| 22.5° | 2043.9 | 2040.7 | 2030.7 | 2030.7 | 2024.2 | 2020.9 | 2024.2 | 2024.2 | 2027.5 | 2024.2 | 2024.2 |
| 25°   | 1941.6 | 1935.1 | 1928.4 | 1928.4 | 1925.1 | 1921.8 | 1925.1 | 1928.4 | 1925.1 | 1928.4 | 1928.4 |
| 27.5° | 1832.6 | 1822.7 | 1822.7 | 1816.2 | 1816.2 | 1819.4 | 1816.2 | 1819.4 | 1822.7 | 1822.7 | 1829.4 |
| 30°   | 1713.7 | 1710.5 | 1707.2 | 1703.8 | 1703.8 | 1707.2 | 1707.2 | 1707.2 | 1710.5 | 1717.1 | 1717.1 |
| 32.5° | 1601.5 | 1595.0 | 1588.3 | 1588.3 | 1595.0 | 1591.6 | 1595.0 | 1595.0 | 1601.5 | 1601.5 | 1608.2 |
| 35°   | 1479.3 | 1479.3 | 1472.7 | 1476.1 | 1476.1 | 1476.1 | 1476.1 | 1482.6 | 1489.3 | 1492.5 | 1499.2 |
| 37.5° | 1367.1 | 1357.2 | 1360.4 | 1360.4 | 1363.7 | 1360.4 | 1370.4 | 1370.4 | 1376.9 | 1376.9 | 1383.6 |
| 40°   | 1244.9 | 1244.9 | 1248.2 | 1244.9 | 1248.2 | 1248.2 | 1254.7 | 1261.4 | 1264.7 | 1271.3 | 1274.6 |
| 42.5° | 1129.3 | 1136.0 | 1129.3 | 1132.6 | 1136.0 | 1139.2 | 1142.5 | 1145.9 | 1159.1 | 1165.6 | 1175.5 |
| 45°   | 1023.6 | 1027.0 | 1030.3 | 1033.5 | 1030.3 | 1036.8 | 1040.2 | 1046.7 | 1056.7 | 1059.9 | 1063.3 |
| 47.5° | 921.3  | 924.6  | 927.8  | 931.2  | 931.2  | 937.8  | 941.1  | 947.7  | 954.3  | 957.6  | 960.9  |
| 50°   | 822.2  | 828.8  | 832.2  | 832.2  | 835.4  | 842.0  | 848.6  | 848.6  | 855.3  | 865.1  | 868.5  |
| 52.5° | 733.0  | 733.0  | 739.7  | 742.9  | 746.2  | 746.2  | 756.1  | 759.5  | 762.8  | 769.3  | 776.0  |
| 55°   | 634.0  | 643.9  | 647.2  | 647.2  | 653.8  | 660.4  | 663.7  | 667.0  | 667.0  | 680.2  | 680.2  |
| 57.5° | 548.1  | 551.4  | 558.1  | 558.1  | 558.1  | 568.0  | 568.0  | 574.5  | 577.9  | 581.2  | 587.7  |
| 60°   | 462.3  | 468.9  | 468.9  | 472.2  | 468.9  | 475.5  | 478.9  | 485.4  | 488.7  | 492.1  | 495.3  |
| 62.5° | 383.1  | 383.1  | 386.4  | 386.4  | 386.4  | 386.4  | 392.9  | 392.9  | 399.6  | 402.8  | 406.1  |
| 65°   | 307.1  | 307.1  | 307.1  | 307.1  | 307.1  | 307.1  | 307.1  | 307.1  | 310.4  | 310.4  | 317.0  |
| 67.5° | 237.8  | 234.4  | 227.9  | 231.1  | 227.9  | 227.9  | 224.6  | 224.6  | 227.9  | 227.9  | 234.4  |
| 70°   | 171.7  | 168.4  | 161.8  | 161.8  | 158.5  | 155.2  | 151.8  | 148.6  | 145.3  | 145.3  | 145.3  |
| 72.5° | 112.2  | 105.7  | 95.8   | 92.5   | 92.5   | 85.8   | 79.3   | 75.9   | 75.9   | 75.9   | 75.9   |
| 75°   | 56.2   | 49.5   | 43.0   | 39.6   | 39.6   | 33.0   | 36.3   | 33.0   | 33.0   | 33.0   | 33.0   |
| 77.5° | 23.1   | 16.5   | 13.2   | 13.2   | 13.2   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 80°   | 6.5    | 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: P593749

CATALOG NUMBER: HCC8W40D010SL-HM82555950-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 | 2473.3 |
| 2.5°  | 2460.1 | 2460.1 | 2453.4 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 |
| 5°    | 2430.3 | 2433.7 | 2430.3 | 2433.7 | 2433.7 | 2430.3 | 2430.3 | 2430.3 |
| 7.5°  | 2400.6 | 2403.9 | 2400.6 | 2403.9 | 2403.9 | 2403.9 | 2400.6 | 2400.6 |
| 10°   | 2364.3 | 2364.3 | 2364.3 | 2364.3 | 2364.3 | 2361.0 | 2364.3 | 2364.3 |
| 12.5° | 2314.8 | 2314.8 | 2314.8 | 2318.0 | 2318.0 | 2314.8 | 2314.8 | 2311.5 |
| 15°   | 2262.0 | 2255.3 | 2258.6 | 2262.0 | 2258.6 | 2258.6 | 2258.6 | 2258.6 |
| 17.5° | 2189.2 | 2192.6 | 2189.2 | 2189.2 | 2189.2 | 2189.2 | 2192.6 | 2189.2 |
| 20°   | 2113.3 | 2113.3 | 2116.7 | 2113.3 | 2113.3 | 2113.3 | 2113.3 | 2110.0 |
| 22.5° | 2027.5 | 2024.2 | 2024.2 | 2027.5 | 2027.5 | 2024.2 | 2027.5 | 2027.5 |
| 25°   | 1931.7 | 1935.1 | 1931.7 | 1931.7 | 1935.1 | 1935.1 | 1935.1 | 1931.7 |
| 27.5° | 1829.4 | 1832.6 | 1835.9 | 1832.6 | 1832.6 | 1832.6 | 1835.9 | 1839.3 |
| 30°   | 1723.7 | 1730.3 | 1723.7 | 1723.7 | 1730.3 | 1726.9 | 1730.3 | 1730.3 |
| 32.5° | 1611.4 | 1621.4 | 1614.7 | 1621.4 | 1621.4 | 1624.6 | 1621.4 | 1624.6 |
| 35°   | 1499.2 | 1509.0 | 1509.0 | 1509.0 | 1512.4 | 1515.7 | 1515.7 | 1512.4 |
| 37.5° | 1393.5 | 1396.8 | 1396.8 | 1403.4 | 1406.7 | 1410.0 | 1410.0 | 1406.7 |
| 40°   | 1284.5 | 1291.1 | 1294.4 | 1294.4 | 1294.4 | 1301.0 | 1307.6 | 1301.0 |
| 42.5° | 1178.8 | 1182.1 | 1185.5 | 1185.5 | 1192.0 | 1195.4 | 1198.7 | 1198.7 |
| 45°   | 1076.5 | 1083.1 | 1086.4 | 1089.7 | 1093.0 | 1099.6 | 1096.3 | 1102.9 |
| 47.5° | 970.8  | 980.7  | 984.0  | 987.3  | 993.9  | 997.2  | 1000.6 | 1003.9 |
| 50°   | 875.0  | 881.7  | 881.7  | 888.2  | 898.2  | 898.2  | 904.8  | 908.1  |
| 52.5° | 779.3  | 782.5  | 785.9  | 789.2  | 795.8  | 802.4  | 802.4  | 809.0  |
| 55°   | 686.9  | 690.1  | 690.1  | 693.4  | 696.7  | 710.0  | 713.3  | 713.3  |
| 57.5° | 591.1  | 591.1  | 597.6  | 600.9  | 604.3  | 610.8  | 610.8  | 610.8  |
| 60°   | 498.6  | 501.9  | 501.9  | 505.3  | 508.5  | 515.2  | 518.5  | 515.2  |
| 62.5° | 406.1  | 409.5  | 409.5  | 412.8  | 419.4  | 422.7  | 419.4  | 419.4  |
| 65°   | 320.3  | 323.6  | 323.6  | 326.9  | 333.6  | 333.6  | 330.2  | 333.6  |
| 67.5° | 234.4  | 234.4  | 234.4  | 234.4  | 234.4  | 234.4  | 234.4  | 234.4  |
| 70°   | 148.6  | 145.3  | 142.0  | 145.3  | 145.3  | 145.3  | 142.0  | 148.6  |
| 72.5° | 72.6   | 75.9   | 75.9   | 75.9   | 75.9   | 75.9   | 75.9   | 72.6   |
| 75°   | 33.0   | 33.0   | 29.8   | 29.8   | 29.8   | 33.0   | 33.0   | 29.8   |
| 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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



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

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(END OF REPORT)