

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: P593719

Luminaire Tested: **HCC8W35D010SL-HM82555950-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W35D010SL-HM82555950-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

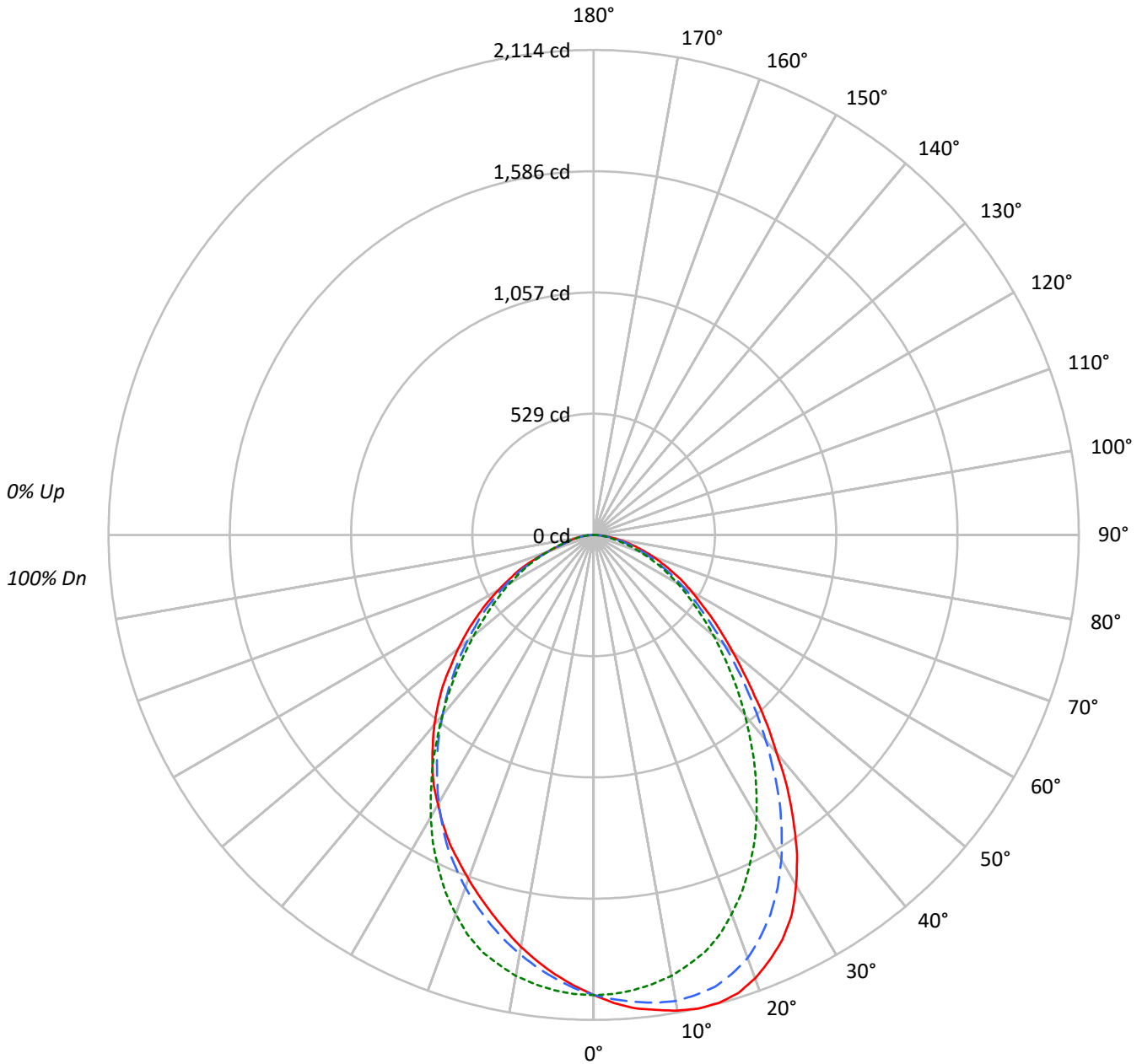
Lumens per Lamp: N/A  
Luminaire Lumens: 4034.2 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 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   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |  |  |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |  |  |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |  |  |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |  |  |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |  |  |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |  |  |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |  |  |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |  |  |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |  |  |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |  |  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 61851 | 61851 | 61851 |
| 5°  | 64115 | 61648 | 59528 |
| 10° | 65931 | 61112 | 57097 |
| 15° | 67398 | 60033 | 54574 |
| 20° | 67504 | 57686 | 52357 |
| 25° | 66211 | 54479 | 50505 |
| 30° | 62800 | 50522 | 48293 |
| 35° | 57061 | 46012 | 46122 |
| 40° | 49895 | 41288 | 43470 |
| 45° | 43238 | 36780 | 40504 |
| 50° | 37860 | 32665 | 36901 |
| 55° | 33698 | 28951 | 33397 |
| 60° | 30398 | 26007 | 29344 |
| 65° | 27442 | 22867 | 25567 |
| 70° | 24659 | 19267 | 19006 |
| 75° | 21720 | 15274 | 14261 |
| 80° | 18202 | 12661 | 13656 |
| 85° | 14117 | 11110 | 12065 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.2  | 4.7       |
| 10°-20°   | 533.0  | 13.2      |
| 20°-30°   | 761.7  | 18.9      |
| 30°-40°   | 809.3  | 20.1      |
| 40°-50°   | 696.8  | 17.3      |
| 50°-60°   | 521.0  | 12.9      |
| 60°-70°   | 332.3  | 8.2       |
| 70°-80°   | 151.2  | 3.7       |
| 80°-90°   | 39.7   | 1.0       |
| 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°    | 1483.9 | 36.8      |
| 0°-40°    | 2293.2 | 56.8      |
| 0°-60°    | 3511.0 | 87.0      |
| 0°-90°    | 4034.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4034.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2006 | 2006 | 2006 | 2006 | 2006 |      |
| 5°  | 2071 | 2043 | 1992 | 1940 | 1923 | 199  |
| 15° | 2111 | 2040 | 1880 | 1752 | 1710 | 595  |
| 25° | 1946 | 1824 | 1601 | 1504 | 1484 | 891  |
| 35° | 1516 | 1410 | 1222 | 1191 | 1225 | 944  |
| 45° | 992  | 937  | 843  | 866  | 929  | 771  |
| 55° | 627  | 576  | 538  | 584  | 621  | 564  |
| 65° | 376  | 333  | 313  | 328  | 350  | 375  |
| 75° | 182  | 157  | 128  | 117  | 120  | 194  |
| 85° | 40   | 34   | 31   | 34   | 34   | 48   |
| 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°    | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 |
| 2.5°  | 2042.8 | 2037.2 | 2040.1 | 2037.2 | 2040.1 | 2040.1 | 2034.3 | 2034.3 | 2034.3 | 2034.3 | 2025.8 |
| 5°    | 2071.3 | 2068.5 | 2068.5 | 2065.7 | 2062.8 | 2065.7 | 2062.8 | 2060.0 | 2054.2 | 2051.5 | 2042.8 |
| 7.5°  | 2088.5 | 2088.5 | 2088.5 | 2088.5 | 2085.6 | 2082.7 | 2080.0 | 2074.2 | 2068.5 | 2062.8 | 2057.1 |
| 10°   | 2105.6 | 2108.4 | 2105.6 | 2102.7 | 2099.9 | 2094.1 | 2091.3 | 2085.6 | 2077.1 | 2068.5 | 2062.8 |
| 12.5° | 2114.1 | 2114.1 | 2111.2 | 2111.2 | 2105.6 | 2102.7 | 2094.1 | 2085.6 | 2077.1 | 2068.5 | 2054.2 |
| 15°   | 2111.2 | 2111.2 | 2108.4 | 2105.6 | 2097.0 | 2094.1 | 2088.5 | 2080.0 | 2065.7 | 2054.2 | 2040.1 |
| 17.5° | 2094.1 | 2091.3 | 2085.6 | 2085.6 | 2074.2 | 2071.3 | 2065.7 | 2054.2 | 2040.1 | 2022.9 | 2005.8 |
| 20°   | 2057.1 | 2057.1 | 2054.2 | 2051.5 | 2040.1 | 2031.4 | 2025.8 | 2011.6 | 2000.2 | 1980.2 | 1963.0 |
| 22.5° | 2005.8 | 2011.6 | 2005.8 | 2000.2 | 1985.9 | 1983.0 | 1974.5 | 1957.4 | 1940.3 | 1917.5 | 1897.5 |
| 25°   | 1946.0 | 1943.2 | 1940.3 | 1934.7 | 1923.1 | 1917.5 | 1906.1 | 1889.0 | 1871.9 | 1846.2 | 1823.5 |
| 27.5° | 1869.1 | 1857.6 | 1857.6 | 1846.2 | 1837.7 | 1829.2 | 1823.5 | 1806.3 | 1783.6 | 1763.7 | 1735.2 |
| 30°   | 1763.7 | 1766.5 | 1752.2 | 1749.4 | 1735.2 | 1729.4 | 1718.1 | 1700.9 | 1681.0 | 1658.3 | 1635.4 |
| 32.5° | 1649.6 | 1641.1 | 1641.1 | 1629.8 | 1618.4 | 1609.8 | 1607.0 | 1587.0 | 1569.9 | 1547.1 | 1524.3 |
| 35°   | 1515.8 | 1515.8 | 1507.2 | 1504.3 | 1492.9 | 1487.3 | 1478.7 | 1467.3 | 1447.4 | 1427.4 | 1410.4 |
| 37.5° | 1384.8 | 1379.0 | 1376.1 | 1370.5 | 1361.9 | 1353.4 | 1353.4 | 1333.4 | 1330.6 | 1307.7 | 1285.0 |
| 40°   | 1239.5 | 1245.1 | 1239.5 | 1230.8 | 1228.0 | 1222.3 | 1219.4 | 1208.1 | 1199.6 | 1179.6 | 1165.3 |
| 42.5° | 1116.9 | 1111.1 | 1111.1 | 1108.4 | 1096.9 | 1096.9 | 1091.3 | 1085.5 | 1071.3 | 1065.6 | 1048.5 |
| 45°   | 991.5  | 997.2  | 988.7  | 991.5  | 980.1  | 980.1  | 980.1  | 968.7  | 957.3  | 948.8  | 937.4  |
| 47.5° | 883.3  | 886.0  | 886.0  | 877.5  | 874.7  | 874.7  | 869.0  | 863.3  | 854.8  | 843.4  | 834.8  |
| 50°   | 789.2  | 792.1  | 786.4  | 783.5  | 777.9  | 775.0  | 775.0  | 763.6  | 757.9  | 746.5  | 740.8  |
| 52.5° | 703.7  | 703.7  | 700.9  | 700.9  | 692.3  | 692.3  | 686.7  | 678.1  | 672.4  | 666.7  | 652.4  |
| 55°   | 626.8  | 626.8  | 623.9  | 621.2  | 621.2  | 612.5  | 609.8  | 601.2  | 595.5  | 584.0  | 575.5  |
| 57.5° | 552.8  | 555.6  | 552.8  | 549.9  | 547.0  | 544.3  | 538.5  | 530.0  | 524.2  | 515.7  | 510.0  |
| 60°   | 492.9  | 492.9  | 490.1  | 487.2  | 481.5  | 478.7  | 475.8  | 470.1  | 461.6  | 455.8  | 447.3  |
| 62.5° | 436.0  | 433.1  | 430.2  | 427.3  | 421.7  | 421.7  | 415.9  | 410.3  | 401.7  | 396.1  | 390.3  |
| 65°   | 376.1  | 376.1  | 373.3  | 373.3  | 370.4  | 364.7  | 361.8  | 359.0  | 347.7  | 344.8  | 333.4  |
| 67.5° | 321.9  | 324.8  | 319.1  | 319.1  | 313.4  | 313.4  | 310.5  | 302.0  | 299.1  | 293.5  | 287.8  |
| 70°   | 273.5  | 273.5  | 273.5  | 270.6  | 265.0  | 262.1  | 259.2  | 253.6  | 250.7  | 245.0  | 239.4  |
| 72.5° | 225.1  | 225.1  | 222.2  | 222.2  | 219.4  | 216.6  | 213.7  | 208.0  | 208.0  | 202.3  | 196.6  |
| 75°   | 182.3  | 182.3  | 179.5  | 176.7  | 173.8  | 173.8  | 171.0  | 168.1  | 162.4  | 159.6  | 156.7  |
| 77.5° | 139.6  | 139.6  | 139.6  | 136.8  | 133.9  | 133.9  | 133.9  | 128.2  | 122.6  | 122.6  | 119.7  |
| 80°   | 102.5  | 102.5  | 99.7   | 99.7   | 96.9   | 96.9   | 96.9   | 94.0   | 91.2   | 88.3   | 85.4   |
| 82.5° | 68.4   | 68.4   | 68.4   | 68.4   | 65.5   | 65.5   | 65.5   | 62.7   | 59.8   | 59.8   | 59.8   |
| 85°   | 39.9   | 39.9   | 39.9   | 39.9   | 37.0   | 37.0   | 37.0   | 37.0   | 37.0   | 34.1   | 34.1   |
| 87.5° | 17.1   | 14.3   | 17.1   | 14.3   | 17.1   | 14.3   | 17.1   | 14.3   | 14.3   | 14.3   | 14.3   |
| 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°    | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 |
| 2.5°  | 2028.6 | 2025.8 | 2022.9 | 2020.1 | 2020.1 | 2017.2 | 2011.6 | 2008.7 | 2005.8 | 2002.9 | 2002.9 |
| 5°    | 2040.1 | 2037.2 | 2031.4 | 2025.8 | 2022.9 | 2017.2 | 2011.6 | 2005.8 | 2000.2 | 1991.6 | 1988.7 |
| 7.5°  | 2048.6 | 2040.1 | 2034.3 | 2022.9 | 2020.1 | 2014.4 | 2005.8 | 1997.3 | 1985.9 | 1974.5 | 1965.9 |
| 10°   | 2048.6 | 2037.2 | 2028.6 | 2014.4 | 2008.7 | 2002.9 | 1991.6 | 1977.3 | 1963.0 | 1951.7 | 1937.4 |
| 12.5° | 2042.8 | 2028.6 | 2014.4 | 2000.2 | 1991.6 | 1983.0 | 1965.9 | 1951.7 | 1934.7 | 1917.5 | 1906.1 |
| 15°   | 2022.9 | 2005.8 | 1988.7 | 1971.7 | 1963.0 | 1951.7 | 1934.7 | 1914.6 | 1897.5 | 1880.5 | 1860.5 |
| 17.5° | 1985.9 | 1968.8 | 1948.9 | 1928.9 | 1917.5 | 1909.0 | 1883.4 | 1869.1 | 1843.5 | 1826.4 | 1809.2 |
| 20°   | 1937.4 | 1917.5 | 1891.9 | 1871.9 | 1857.6 | 1849.1 | 1829.2 | 1803.6 | 1783.6 | 1757.9 | 1740.8 |
| 22.5° | 1874.8 | 1849.1 | 1823.5 | 1803.6 | 1789.3 | 1778.0 | 1752.2 | 1726.6 | 1709.5 | 1686.7 | 1666.8 |
| 25°   | 1800.7 | 1775.1 | 1749.4 | 1720.9 | 1706.7 | 1695.3 | 1672.5 | 1649.6 | 1626.9 | 1601.2 | 1584.1 |
| 27.5° | 1712.4 | 1683.9 | 1661.0 | 1635.4 | 1621.1 | 1604.1 | 1578.5 | 1555.6 | 1532.8 | 1515.8 | 1492.9 |
| 30°   | 1615.5 | 1584.1 | 1561.4 | 1535.7 | 1521.5 | 1507.2 | 1481.6 | 1458.8 | 1438.8 | 1418.9 | 1407.5 |
| 32.5° | 1498.7 | 1475.9 | 1453.1 | 1427.4 | 1416.0 | 1407.5 | 1381.9 | 1359.0 | 1336.2 | 1319.1 | 1310.6 |
| 35°   | 1387.5 | 1361.9 | 1342.0 | 1319.1 | 1305.0 | 1296.4 | 1273.6 | 1253.6 | 1242.2 | 1222.3 | 1210.9 |
| 37.5° | 1270.7 | 1250.8 | 1228.0 | 1205.2 | 1196.7 | 1188.1 | 1171.0 | 1151.0 | 1134.0 | 1119.8 | 1114.0 |
| 40°   | 1148.3 | 1131.2 | 1111.1 | 1096.9 | 1088.4 | 1079.9 | 1065.6 | 1051.4 | 1040.0 | 1025.7 | 1020.0 |
| 42.5° | 1031.4 | 1020.0 | 1003.0 | 985.8  | 977.3  | 974.5  | 957.3  | 945.9  | 940.2  | 934.6  | 928.8  |
| 45°   | 925.9  | 908.9  | 897.5  | 886.0  | 877.5  | 871.9  | 863.3  | 854.8  | 849.0  | 843.4  | 837.6  |
| 47.5° | 823.4  | 809.1  | 797.7  | 789.2  | 780.7  | 777.9  | 772.1  | 763.6  | 757.9  | 757.9  | 757.9  |
| 50°   | 729.3  | 718.0  | 706.6  | 700.9  | 698.1  | 692.3  | 686.7  | 683.8  | 680.9  | 680.9  | 680.9  |
| 52.5° | 646.8  | 635.4  | 626.8  | 621.2  | 621.2  | 615.4  | 609.8  | 606.9  | 606.9  | 606.9  | 606.9  |
| 55°   | 569.9  | 561.3  | 555.6  | 549.9  | 544.3  | 541.4  | 541.4  | 541.4  | 538.5  | 538.5  | 541.4  |
| 57.5° | 501.5  | 495.7  | 487.2  | 481.5  | 478.7  | 478.7  | 475.8  | 473.0  | 475.8  | 478.7  | 481.5  |
| 60°   | 438.8  | 433.1  | 430.2  | 421.7  | 421.7  | 421.7  | 418.8  | 418.8  | 418.8  | 421.7  | 424.6  |
| 62.5° | 381.8  | 378.9  | 373.3  | 370.4  | 367.5  | 367.5  | 364.7  | 364.7  | 364.7  | 364.7  | 367.5  |
| 65°   | 330.5  | 324.8  | 319.1  | 319.1  | 319.1  | 316.3  | 316.3  | 310.5  | 313.4  | 313.4  | 310.5  |
| 67.5° | 282.1  | 276.4  | 273.5  | 270.6  | 267.9  | 267.9  | 265.0  | 262.1  | 259.2  | 259.2  | 259.2  |
| 70°   | 236.5  | 230.7  | 230.7  | 225.1  | 225.1  | 222.2  | 219.4  | 219.4  | 216.6  | 213.7  | 210.8  |
| 72.5° | 190.8  | 188.1  | 185.2  | 182.3  | 182.3  | 182.3  | 179.5  | 176.7  | 173.8  | 171.0  | 165.2  |
| 75°   | 150.9  | 150.9  | 145.3  | 142.4  | 142.4  | 139.6  | 136.8  | 133.9  | 131.1  | 128.2  | 125.3  |
| 77.5° | 116.8  | 113.9  | 108.3  | 105.4  | 105.4  | 105.4  | 102.5  | 99.7   | 96.9   | 94.0   | 91.2   |
| 80°   | 85.4   | 82.7   | 79.8   | 76.9   | 76.9   | 76.9   | 74.0   | 74.0   | 71.3   | 71.3   | 71.3   |
| 82.5° | 57.0   | 57.0   | 54.1   | 54.1   | 54.1   | 54.1   | 51.3   | 51.3   | 51.3   | 51.3   | 51.3   |
| 85°   | 34.1   | 34.1   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   |
| 87.5° | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 |
| 2.5°  | 1997.3 | 1997.3 | 1991.6 | 1988.7 | 1985.9 | 1988.7 | 1983.0 | 1980.2 | 1977.3 | 1977.3 | 1974.5 |
| 5°    | 1980.2 | 1977.3 | 1965.9 | 1963.0 | 1960.3 | 1957.4 | 1951.7 | 1946.0 | 1940.3 | 1937.4 | 1934.7 |
| 7.5°  | 1957.4 | 1948.9 | 1937.4 | 1934.7 | 1931.8 | 1923.1 | 1914.6 | 1909.0 | 1900.4 | 1897.5 | 1891.9 |
| 10°   | 1926.0 | 1914.6 | 1906.1 | 1897.5 | 1891.9 | 1883.4 | 1874.8 | 1866.2 | 1854.9 | 1852.0 | 1843.5 |
| 12.5° | 1889.0 | 1874.8 | 1857.6 | 1854.9 | 1846.2 | 1834.9 | 1823.5 | 1815.0 | 1806.3 | 1800.7 | 1792.1 |
| 15°   | 1843.5 | 1829.2 | 1812.1 | 1803.6 | 1795.0 | 1786.5 | 1772.2 | 1760.8 | 1752.2 | 1743.7 | 1735.2 |
| 17.5° | 1789.3 | 1772.2 | 1757.9 | 1749.4 | 1743.7 | 1729.4 | 1718.1 | 1703.8 | 1695.3 | 1686.7 | 1678.2 |
| 20°   | 1723.8 | 1709.5 | 1689.5 | 1681.0 | 1678.2 | 1666.8 | 1652.5 | 1646.9 | 1635.4 | 1626.9 | 1621.1 |
| 22.5° | 1649.6 | 1635.4 | 1618.4 | 1612.6 | 1601.2 | 1595.5 | 1581.4 | 1575.6 | 1569.9 | 1561.4 | 1558.5 |
| 25°   | 1567.1 | 1552.8 | 1538.6 | 1535.7 | 1527.2 | 1521.5 | 1513.0 | 1504.3 | 1504.3 | 1495.8 | 1495.8 |
| 27.5° | 1481.6 | 1467.3 | 1455.9 | 1450.3 | 1447.4 | 1441.7 | 1433.2 | 1430.3 | 1427.4 | 1424.5 | 1424.5 |
| 30°   | 1390.4 | 1373.3 | 1367.6 | 1364.8 | 1361.9 | 1356.3 | 1353.4 | 1347.6 | 1350.5 | 1353.4 | 1350.5 |
| 32.5° | 1293.5 | 1287.8 | 1276.5 | 1270.7 | 1273.6 | 1270.7 | 1265.1 | 1270.7 | 1267.8 | 1273.6 | 1276.5 |
| 35°   | 1199.6 | 1193.8 | 1188.1 | 1188.1 | 1182.4 | 1182.4 | 1182.4 | 1185.3 | 1190.9 | 1193.8 | 1199.6 |
| 37.5° | 1108.4 | 1099.8 | 1096.9 | 1094.1 | 1096.9 | 1096.9 | 1096.9 | 1102.6 | 1108.4 | 1114.0 | 1122.5 |
| 40°   | 1011.5 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1014.3 | 1011.5 | 1017.2 | 1022.9 | 1031.4 | 1040.0 |
| 42.5° | 920.3  | 920.3  | 923.2  | 923.2  | 923.2  | 923.2  | 928.8  | 937.4  | 945.9  | 954.4  | 963.1  |
| 45°   | 834.8  | 834.8  | 834.8  | 840.5  | 840.5  | 843.4  | 854.8  | 860.4  | 866.2  | 874.7  | 883.3  |
| 47.5° | 755.0  | 755.0  | 757.9  | 760.7  | 763.6  | 769.2  | 775.0  | 783.5  | 792.1  | 797.7  | 806.4  |
| 50°   | 680.9  | 683.8  | 689.4  | 695.2  | 695.2  | 698.1  | 706.6  | 712.3  | 718.0  | 726.6  | 729.3  |
| 52.5° | 609.8  | 615.4  | 621.2  | 623.9  | 626.8  | 632.5  | 635.4  | 643.9  | 646.8  | 655.3  | 658.2  |
| 55°   | 544.3  | 547.0  | 555.6  | 558.4  | 558.4  | 564.1  | 569.9  | 575.5  | 584.0  | 584.0  | 589.8  |
| 57.5° | 484.4  | 487.2  | 492.9  | 495.7  | 492.9  | 501.5  | 504.4  | 510.0  | 512.9  | 518.5  | 521.4  |
| 60°   | 424.6  | 430.2  | 433.1  | 433.1  | 436.0  | 438.8  | 444.5  | 444.5  | 450.2  | 455.8  | 455.8  |
| 62.5° | 367.5  | 370.4  | 373.3  | 376.1  | 378.9  | 376.1  | 384.7  | 384.7  | 390.3  | 393.2  | 398.9  |
| 65°   | 313.4  | 316.3  | 316.3  | 319.1  | 319.1  | 321.9  | 321.9  | 324.8  | 327.7  | 333.4  | 336.2  |
| 67.5° | 259.2  | 259.2  | 259.2  | 262.1  | 259.2  | 262.1  | 262.1  | 265.0  | 265.0  | 270.6  | 273.5  |
| 70°   | 210.8  | 208.0  | 205.1  | 205.1  | 205.1  | 205.1  | 202.3  | 205.1  | 205.1  | 208.0  | 208.0  |
| 72.5° | 162.4  | 159.6  | 156.7  | 153.8  | 153.8  | 150.9  | 148.2  | 150.9  | 150.9  | 153.8  | 153.8  |
| 75°   | 122.6  | 116.8  | 116.8  | 116.8  | 113.9  | 113.9  | 113.9  | 116.8  | 116.8  | 116.8  | 119.7  |
| 77.5° | 91.2   | 91.2   | 88.3   | 88.3   | 88.3   | 91.2   | 91.2   | 94.0   | 94.0   | 94.0   | 94.0   |
| 80°   | 68.4   | 71.3   | 71.3   | 71.3   | 71.3   | 74.0   | 74.0   | 74.0   | 74.0   | 76.9   | 76.9   |
| 82.5° | 51.3   | 51.3   | 51.3   | 51.3   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   |
| 85°   | 31.4   | 34.1   | 34.1   | 31.4   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   |
| 87.5° | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   |
| 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: P593719

CATALOG NUMBER: HCC8W35D010SL-HM82555950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 | 2005.8 |
| 2.5°  | 1971.7 | 1971.7 | 1971.7 | 1971.7 | 1968.8 | 1968.8 | 1968.8 | 1965.9 |
| 5°    | 1928.9 | 1928.9 | 1928.9 | 1923.1 | 1926.0 | 1926.0 | 1920.4 | 1923.1 |
| 7.5°  | 1886.1 | 1883.4 | 1880.5 | 1880.5 | 1877.6 | 1874.8 | 1871.9 | 1874.8 |
| 10°   | 1837.7 | 1829.2 | 1829.2 | 1826.4 | 1826.4 | 1820.6 | 1820.6 | 1823.5 |
| 12.5° | 1783.6 | 1778.0 | 1778.0 | 1775.1 | 1772.2 | 1769.3 | 1766.5 | 1766.5 |
| 15°   | 1729.4 | 1723.8 | 1720.9 | 1718.1 | 1715.2 | 1709.5 | 1712.4 | 1709.5 |
| 17.5° | 1675.3 | 1666.8 | 1666.8 | 1663.9 | 1661.0 | 1655.4 | 1655.4 | 1652.5 |
| 20°   | 1612.6 | 1609.8 | 1604.1 | 1607.0 | 1604.1 | 1598.4 | 1595.5 | 1595.5 |
| 22.5° | 1550.0 | 1550.0 | 1547.1 | 1547.1 | 1544.2 | 1541.5 | 1538.6 | 1538.6 |
| 25°   | 1490.1 | 1487.3 | 1490.1 | 1490.1 | 1481.6 | 1481.6 | 1481.6 | 1484.4 |
| 27.5° | 1421.8 | 1424.5 | 1421.8 | 1421.8 | 1421.8 | 1421.8 | 1424.5 | 1421.8 |
| 30°   | 1353.4 | 1353.4 | 1353.4 | 1356.3 | 1361.9 | 1359.0 | 1359.0 | 1356.3 |
| 32.5° | 1279.3 | 1282.1 | 1282.1 | 1285.0 | 1287.8 | 1293.5 | 1293.5 | 1296.4 |
| 35°   | 1205.2 | 1210.9 | 1213.8 | 1210.9 | 1219.4 | 1219.4 | 1225.2 | 1225.2 |
| 37.5° | 1128.3 | 1131.2 | 1136.8 | 1139.7 | 1145.4 | 1148.3 | 1151.0 | 1151.0 |
| 40°   | 1045.6 | 1057.0 | 1059.9 | 1062.7 | 1071.3 | 1071.3 | 1074.1 | 1079.9 |
| 42.5° | 968.7  | 980.1  | 983.0  | 985.8  | 991.5  | 1000.1 | 997.2  | 1003.0 |
| 45°   | 894.7  | 903.2  | 906.0  | 908.9  | 917.4  | 920.3  | 920.3  | 928.8  |
| 47.5° | 814.9  | 820.5  | 823.4  | 829.1  | 834.8  | 840.5  | 846.3  | 843.4  |
| 50°   | 735.1  | 743.6  | 749.3  | 752.2  | 760.7  | 763.6  | 766.5  | 769.2  |
| 52.5° | 663.8  | 669.6  | 672.4  | 675.3  | 683.8  | 686.7  | 689.4  | 695.2  |
| 55°   | 595.5  | 598.3  | 604.0  | 601.2  | 609.8  | 612.5  | 615.4  | 621.2  |
| 57.5° | 527.1  | 530.0  | 532.8  | 532.8  | 538.5  | 544.3  | 547.0  | 549.9  |
| 60°   | 461.6  | 467.2  | 470.1  | 470.1  | 470.1  | 475.8  | 475.8  | 475.8  |
| 62.5° | 401.7  | 401.7  | 404.6  | 404.6  | 410.3  | 410.3  | 410.3  | 410.3  |
| 65°   | 339.0  | 341.9  | 344.8  | 344.8  | 350.4  | 347.7  | 353.3  | 350.4  |
| 67.5° | 273.5  | 273.5  | 279.3  | 279.3  | 276.4  | 279.3  | 279.3  | 279.3  |
| 70°   | 208.0  | 208.0  | 210.8  | 210.8  | 210.8  | 210.8  | 210.8  | 210.8  |
| 72.5° | 153.8  | 153.8  | 153.8  | 156.7  | 153.8  | 153.8  | 156.7  | 153.8  |
| 75°   | 119.7  | 119.7  | 119.7  | 119.7  | 119.7  | 119.7  | 119.7  | 119.7  |
| 77.5° | 94.0   | 94.0   | 96.9   | 96.9   | 96.9   | 96.9   | 96.9   | 96.9   |
| 80°   | 76.9   | 76.9   | 76.9   | 76.9   | 79.8   | 76.9   | 76.9   | 76.9   |
| 82.5° | 57.0   | 54.1   | 57.0   | 54.1   | 57.0   | 57.0   | 57.0   | 57.0   |
| 85°   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   |
| 87.5° | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   | 14.3   |
| 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)