

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: P584404

Luminaire Tested: **HCC8S35D010MB-HM82555830-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584404  
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: HCC8S35D010MB-HM82555830-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3692.1 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

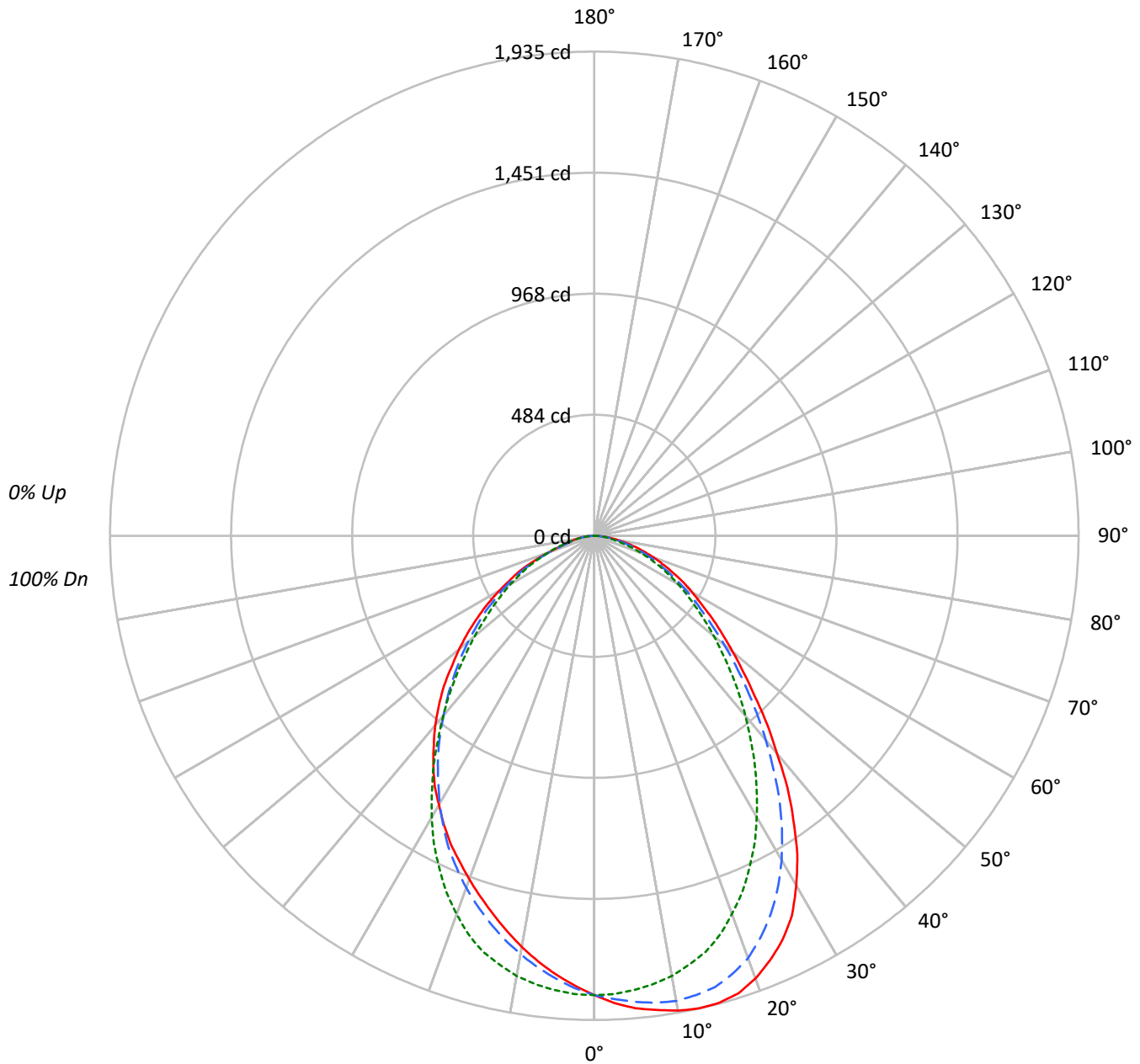
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 56606 | 56606 | 56606 |
| 5°  | 58680 | 56417 | 54482 |
| 10° | 60338 | 55930 | 52253 |
| 15° | 61681 | 54938 | 49945 |
| 20° | 61781 | 52793 | 47917 |
| 25° | 60594 | 49859 | 46222 |
| 30° | 57473 | 46235 | 44195 |
| 35° | 52220 | 42113 | 42207 |
| 40° | 45660 | 37790 | 39779 |
| 45° | 39571 | 33662 | 37072 |
| 50° | 34651 | 29897 | 33778 |
| 55° | 30838 | 26499 | 30563 |
| 60° | 27814 | 23799 | 26858 |
| 65° | 25115 | 20926 | 23400 |
| 70° | 22576 | 17626 | 17401 |
| 75° | 19885 | 13975 | 13046 |
| 80° | 16675 | 11578 | 12502 |
| 85° | 12914 | 10119 | 11074 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.2  | 4.7       |
| 10°-20°   | 487.8  | 13.2      |
| 20°-30°   | 697.1  | 18.9      |
| 30°-40°   | 740.7  | 20.1      |
| 40°-50°   | 637.7  | 17.3      |
| 50°-60°   | 476.8  | 12.9      |
| 60°-70°   | 304.1  | 8.2       |
| 70°-80°   | 138.4  | 3.7       |
| 80°-90°   | 36.3   | 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°    | 1358.0 | 36.8      |
| 0°-40°    | 2098.7 | 56.8      |
| 0°-60°    | 3213.2 | 87.0      |
| 0°-90°    | 3692.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3692.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1836 | 1836 | 1836 | 1836 | 1836 |      |
| 5°  | 1896 | 1870 | 1823 | 1776 | 1760 | 182  |
| 15° | 1932 | 1867 | 1721 | 1604 | 1564 | 544  |
| 25° | 1781 | 1669 | 1465 | 1377 | 1358 | 815  |
| 35° | 1387 | 1291 | 1119 | 1090 | 1121 | 864  |
| 45° | 907  | 858  | 772  | 793  | 850  | 705  |
| 55° | 574  | 527  | 493  | 534  | 568  | 516  |
| 65° | 344  | 305  | 287  | 300  | 321  | 343  |
| 75° | 167  | 143  | 117  | 107  | 110  | 177  |
| 85° | 36   | 31   | 29   | 31   | 31   | 44   |
| 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°    | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 |
| 2.5°  | 1869.6 | 1864.4 | 1867.0 | 1864.4 | 1867.0 | 1867.0 | 1861.8 | 1861.8 | 1861.8 | 1861.8 | 1853.9 |
| 5°    | 1895.7 | 1893.1 | 1893.1 | 1890.4 | 1887.8 | 1890.4 | 1887.8 | 1885.3 | 1880.0 | 1877.4 | 1869.6 |
| 7.5°  | 1911.3 | 1911.3 | 1911.3 | 1911.3 | 1908.8 | 1906.1 | 1903.5 | 1898.2 | 1893.1 | 1887.8 | 1882.7 |
| 10°   | 1927.0 | 1929.6 | 1927.0 | 1924.3 | 1921.7 | 1916.6 | 1913.9 | 1908.8 | 1900.9 | 1893.1 | 1887.8 |
| 12.5° | 1934.8 | 1934.8 | 1932.1 | 1932.1 | 1927.0 | 1924.3 | 1916.6 | 1908.8 | 1900.9 | 1893.1 | 1880.0 |
| 15°   | 1932.1 | 1932.1 | 1929.6 | 1927.0 | 1919.2 | 1916.6 | 1911.3 | 1903.5 | 1890.4 | 1880.0 | 1867.0 |
| 17.5° | 1916.6 | 1913.9 | 1908.8 | 1908.8 | 1898.2 | 1895.7 | 1890.4 | 1880.0 | 1867.0 | 1851.4 | 1835.7 |
| 20°   | 1882.7 | 1882.7 | 1880.0 | 1877.4 | 1867.0 | 1859.2 | 1853.9 | 1841.0 | 1830.5 | 1812.2 | 1796.6 |
| 22.5° | 1835.7 | 1841.0 | 1835.7 | 1830.5 | 1817.5 | 1814.9 | 1807.1 | 1791.4 | 1775.8 | 1754.8 | 1736.6 |
| 25°   | 1780.9 | 1778.3 | 1775.8 | 1770.5 | 1760.1 | 1754.8 | 1744.4 | 1728.8 | 1713.1 | 1689.7 | 1668.8 |
| 27.5° | 1710.5 | 1700.1 | 1700.1 | 1689.7 | 1681.9 | 1674.1 | 1668.8 | 1653.2 | 1632.3 | 1614.1 | 1587.9 |
| 30°   | 1614.1 | 1616.7 | 1603.6 | 1601.0 | 1587.9 | 1582.8 | 1572.4 | 1556.7 | 1538.5 | 1517.6 | 1496.8 |
| 32.5° | 1509.7 | 1501.9 | 1501.9 | 1491.5 | 1481.1 | 1473.3 | 1470.7 | 1452.5 | 1436.8 | 1415.9 | 1395.1 |
| 35°   | 1387.2 | 1387.2 | 1379.4 | 1376.7 | 1366.3 | 1361.2 | 1353.3 | 1342.8 | 1324.6 | 1306.4 | 1290.7 |
| 37.5° | 1267.2 | 1262.1 | 1259.5 | 1254.2 | 1246.4 | 1238.6 | 1238.6 | 1220.3 | 1217.8 | 1196.8 | 1176.0 |
| 40°   | 1134.3 | 1139.5 | 1134.3 | 1126.5 | 1123.8 | 1118.7 | 1116.1 | 1105.6 | 1097.7 | 1079.5 | 1066.5 |
| 42.5° | 1022.1 | 1017.0 | 1017.0 | 1014.3 | 1003.9 | 1003.9 | 998.7  | 993.5  | 980.4  | 975.2  | 959.6  |
| 45°   | 907.4  | 912.6  | 904.8  | 907.4  | 896.9  | 896.9  | 896.9  | 886.5  | 876.1  | 868.3  | 857.9  |
| 47.5° | 808.3  | 810.9  | 810.9  | 803.1  | 800.5  | 800.5  | 795.4  | 790.1  | 782.3  | 771.9  | 764.0  |
| 50°   | 722.3  | 724.9  | 719.6  | 717.1  | 711.9  | 709.2  | 709.2  | 698.8  | 693.6  | 683.2  | 677.9  |
| 52.5° | 644.0  | 644.0  | 641.4  | 641.4  | 633.6  | 633.6  | 628.5  | 620.6  | 615.4  | 610.1  | 597.1  |
| 55°   | 573.6  | 573.6  | 571.1  | 568.5  | 568.5  | 560.7  | 558.0  | 550.2  | 545.0  | 534.5  | 526.8  |
| 57.5° | 505.9  | 508.4  | 505.9  | 503.3  | 500.6  | 498.0  | 492.9  | 485.0  | 479.8  | 472.0  | 466.7  |
| 60°   | 451.0  | 451.0  | 448.5  | 445.9  | 440.6  | 438.1  | 435.5  | 430.2  | 422.4  | 417.3  | 409.4  |
| 62.5° | 398.9  | 396.3  | 393.8  | 391.1  | 385.9  | 385.9  | 380.7  | 375.5  | 367.7  | 362.4  | 357.2  |
| 65°   | 344.2  | 344.2  | 341.5  | 341.5  | 339.0  | 333.8  | 331.1  | 328.5  | 318.1  | 315.6  | 305.1  |
| 67.5° | 294.7  | 297.2  | 292.1  | 292.1  | 286.8  | 286.8  | 284.2  | 276.4  | 273.7  | 268.6  | 263.3  |
| 70°   | 250.4  | 250.4  | 250.4  | 247.7  | 242.5  | 239.8  | 237.3  | 232.1  | 229.4  | 224.3  | 219.0  |
| 72.5° | 205.9  | 205.9  | 203.4  | 203.4  | 200.8  | 198.1  | 195.5  | 190.4  | 190.4  | 185.1  | 179.9  |
| 75°   | 166.9  | 166.9  | 164.2  | 161.6  | 159.1  | 159.1  | 156.5  | 153.8  | 148.7  | 146.0  | 143.4  |
| 77.5° | 127.8  | 127.8  | 127.8  | 125.2  | 122.6  | 122.6  | 122.6  | 117.3  | 112.1  | 112.1  | 109.5  |
| 80°   | 93.9   | 93.9   | 91.3   | 91.3   | 88.7   | 88.7   | 88.7   | 86.0   | 83.5   | 80.9   | 78.2   |
| 82.5° | 62.5   | 62.5   | 62.5   | 62.5   | 60.0   | 60.0   | 60.0   | 57.4   | 54.7   | 54.7   | 54.7   |
| 85°   | 36.5   | 36.5   | 36.5   | 36.5   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 31.3   | 31.3   |
| 87.5° | 15.7   | 13.1   | 15.7   | 13.1   | 15.7   | 13.1   | 15.7   | 13.1   | 13.1   | 13.1   | 13.1   |
| 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



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 |
| 2.5°  | 1856.5 | 1853.9 | 1851.4 | 1848.8 | 1848.8 | 1846.1 | 1841.0 | 1838.3 | 1835.7 | 1833.1 | 1833.1 |
| 5°    | 1867.0 | 1864.4 | 1859.2 | 1853.9 | 1851.4 | 1846.1 | 1841.0 | 1835.7 | 1830.5 | 1822.6 | 1820.1 |
| 7.5°  | 1874.9 | 1867.0 | 1861.8 | 1851.4 | 1848.8 | 1843.5 | 1835.7 | 1827.9 | 1817.5 | 1807.1 | 1799.2 |
| 10°   | 1874.9 | 1864.4 | 1856.5 | 1843.5 | 1838.3 | 1833.1 | 1822.6 | 1809.6 | 1796.6 | 1786.2 | 1773.2 |
| 12.5° | 1869.6 | 1856.5 | 1843.5 | 1830.5 | 1822.6 | 1814.9 | 1799.2 | 1786.2 | 1770.5 | 1754.8 | 1744.4 |
| 15°   | 1851.4 | 1835.7 | 1820.1 | 1804.4 | 1796.6 | 1786.2 | 1770.5 | 1752.3 | 1736.6 | 1720.9 | 1702.7 |
| 17.5° | 1817.5 | 1801.8 | 1783.6 | 1765.3 | 1754.8 | 1747.0 | 1723.6 | 1710.5 | 1687.0 | 1671.4 | 1655.8 |
| 20°   | 1773.2 | 1754.8 | 1731.3 | 1713.1 | 1700.1 | 1692.3 | 1674.1 | 1650.6 | 1632.3 | 1608.8 | 1593.2 |
| 22.5° | 1715.8 | 1692.3 | 1668.8 | 1650.6 | 1637.5 | 1627.1 | 1603.6 | 1580.2 | 1564.5 | 1543.6 | 1525.4 |
| 25°   | 1648.0 | 1624.5 | 1601.0 | 1575.0 | 1562.0 | 1551.5 | 1530.7 | 1509.7 | 1488.9 | 1465.4 | 1449.8 |
| 27.5° | 1567.1 | 1541.1 | 1520.1 | 1496.8 | 1483.7 | 1468.0 | 1444.5 | 1423.7 | 1402.9 | 1387.2 | 1366.3 |
| 30°   | 1478.5 | 1449.8 | 1429.0 | 1405.5 | 1392.4 | 1379.4 | 1355.9 | 1335.1 | 1316.8 | 1298.5 | 1288.1 |
| 32.5° | 1371.6 | 1350.7 | 1329.9 | 1306.4 | 1296.0 | 1288.1 | 1264.6 | 1243.8 | 1222.9 | 1207.3 | 1199.4 |
| 35°   | 1269.9 | 1246.4 | 1228.2 | 1207.3 | 1194.3 | 1186.4 | 1165.5 | 1147.3 | 1136.9 | 1118.7 | 1108.1 |
| 37.5° | 1163.0 | 1144.7 | 1123.8 | 1103.0 | 1095.2 | 1087.3 | 1071.7 | 1053.4 | 1037.8 | 1024.8 | 1019.5 |
| 40°   | 1050.9 | 1035.2 | 1017.0 | 1003.9 | 996.1  | 988.2  | 975.2  | 962.2  | 951.8  | 938.8  | 933.5  |
| 42.5° | 943.9  | 933.5  | 917.9  | 902.2  | 894.4  | 891.8  | 876.1  | 865.7  | 860.5  | 855.3  | 850.1  |
| 45°   | 847.5  | 831.8  | 821.3  | 810.9  | 803.1  | 797.9  | 790.1  | 782.3  | 777.0  | 771.9  | 766.6  |
| 47.5° | 753.5  | 740.5  | 730.1  | 722.3  | 714.5  | 711.9  | 706.7  | 698.8  | 693.6  | 693.6  | 693.6  |
| 50°   | 667.5  | 657.1  | 646.7  | 641.4  | 638.9  | 633.6  | 628.5  | 625.8  | 623.2  | 623.2  | 623.2  |
| 52.5° | 591.9  | 581.5  | 573.6  | 568.5  | 568.5  | 563.2  | 558.0  | 555.4  | 555.4  | 555.4  | 555.4  |
| 55°   | 521.5  | 513.7  | 508.4  | 503.3  | 498.0  | 495.5  | 495.5  | 495.5  | 492.9  | 492.9  | 495.5  |
| 57.5° | 459.0  | 453.7  | 445.9  | 440.6  | 438.1  | 438.1  | 435.5  | 432.8  | 435.5  | 438.1  | 440.6  |
| 60°   | 401.6  | 396.3  | 393.8  | 385.9  | 385.9  | 385.9  | 383.4  | 383.4  | 383.4  | 385.9  | 388.5  |
| 62.5° | 349.5  | 346.8  | 341.5  | 339.0  | 336.4  | 336.4  | 333.8  | 333.8  | 333.8  | 333.8  | 336.4  |
| 65°   | 302.5  | 297.2  | 292.1  | 292.1  | 292.1  | 289.4  | 289.4  | 284.2  | 286.8  | 286.8  | 284.2  |
| 67.5° | 258.2  | 252.9  | 250.4  | 247.7  | 245.1  | 245.1  | 242.5  | 239.8  | 237.3  | 237.3  | 237.3  |
| 70°   | 216.5  | 211.2  | 211.2  | 205.9  | 205.9  | 203.4  | 200.8  | 200.8  | 198.1  | 195.5  | 193.0  |
| 72.5° | 174.7  | 172.2  | 169.5  | 166.9  | 166.9  | 166.9  | 164.2  | 161.6  | 159.1  | 156.5  | 151.2  |
| 75°   | 138.2  | 138.2  | 133.0  | 130.3  | 130.3  | 127.8  | 125.2  | 122.6  | 119.9  | 117.3  | 114.8  |
| 77.5° | 106.9  | 104.3  | 99.1   | 96.4   | 96.4   | 96.4   | 93.9   | 91.3   | 88.7   | 86.0   | 83.5   |
| 80°   | 78.2   | 75.6   | 73.0   | 70.4   | 70.4   | 70.4   | 67.8   | 67.8   | 65.2   | 65.2   | 65.2   |
| 82.5° | 52.1   | 52.1   | 49.6   | 49.6   | 49.6   | 49.6   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   |
| 85°   | 31.3   | 31.3   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   |
| 87.5° | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   |
| 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°    | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 |
| 2.5°  | 1827.9 | 1827.9 | 1822.6 | 1820.1 | 1817.5 | 1820.1 | 1814.9 | 1812.2 | 1809.6 | 1809.6 | 1807.1 |
| 5°    | 1812.2 | 1809.6 | 1799.2 | 1796.6 | 1794.0 | 1791.4 | 1786.2 | 1780.9 | 1775.8 | 1773.2 | 1770.5 |
| 7.5°  | 1791.4 | 1783.6 | 1773.2 | 1770.5 | 1767.9 | 1760.1 | 1752.3 | 1747.0 | 1739.3 | 1736.6 | 1731.3 |
| 10°   | 1762.7 | 1752.3 | 1744.4 | 1736.6 | 1731.3 | 1723.6 | 1715.8 | 1708.0 | 1697.6 | 1694.9 | 1687.0 |
| 12.5° | 1728.8 | 1715.8 | 1700.1 | 1697.6 | 1689.7 | 1679.2 | 1668.8 | 1661.0 | 1653.2 | 1648.0 | 1640.2 |
| 15°   | 1687.0 | 1674.1 | 1658.4 | 1650.6 | 1642.7 | 1634.9 | 1621.9 | 1611.4 | 1603.6 | 1595.9 | 1587.9 |
| 17.5° | 1637.5 | 1621.9 | 1608.8 | 1601.0 | 1595.9 | 1582.8 | 1572.4 | 1559.3 | 1551.5 | 1543.6 | 1535.8 |
| 20°   | 1577.5 | 1564.5 | 1546.3 | 1538.5 | 1535.8 | 1525.4 | 1512.4 | 1507.2 | 1496.8 | 1488.9 | 1483.7 |
| 22.5° | 1509.7 | 1496.8 | 1481.1 | 1475.8 | 1465.4 | 1460.2 | 1447.2 | 1441.9 | 1436.8 | 1429.0 | 1426.3 |
| 25°   | 1434.1 | 1421.1 | 1408.1 | 1405.5 | 1397.6 | 1392.4 | 1384.6 | 1376.7 | 1376.7 | 1369.0 | 1369.0 |
| 27.5° | 1355.9 | 1342.8 | 1332.4 | 1327.3 | 1324.6 | 1319.4 | 1311.6 | 1308.9 | 1306.4 | 1303.8 | 1303.8 |
| 30°   | 1272.5 | 1256.8 | 1251.7 | 1249.0 | 1246.4 | 1241.2 | 1238.6 | 1233.3 | 1236.0 | 1238.6 | 1236.0 |
| 32.5° | 1183.9 | 1178.6 | 1168.2 | 1163.0 | 1165.5 | 1163.0 | 1157.7 | 1163.0 | 1160.4 | 1165.5 | 1168.2 |
| 35°   | 1097.7 | 1092.6 | 1087.3 | 1087.3 | 1082.2 | 1082.2 | 1082.2 | 1084.8 | 1089.9 | 1092.6 | 1097.7 |
| 37.5° | 1014.3 | 1006.6 | 1003.9 | 1001.3 | 1003.9 | 1003.9 | 1003.9 | 1009.1 | 1014.3 | 1019.5 | 1027.4 |
| 40°   | 925.7  | 920.4  | 920.4  | 920.4  | 920.4  | 928.3  | 925.7  | 930.8  | 936.1  | 943.9  | 951.8  |
| 42.5° | 842.2  | 842.2  | 844.8  | 844.8  | 844.8  | 844.8  | 850.1  | 857.9  | 865.7  | 873.6  | 881.4  |
| 45°   | 764.0  | 764.0  | 764.0  | 769.2  | 769.2  | 771.9  | 782.3  | 787.4  | 792.7  | 800.5  | 808.3  |
| 47.5° | 691.0  | 691.0  | 693.6  | 696.2  | 698.8  | 704.1  | 709.2  | 717.1  | 724.9  | 730.1  | 738.0  |
| 50°   | 623.2  | 625.8  | 631.0  | 636.3  | 636.3  | 638.9  | 646.7  | 651.8  | 657.1  | 664.9  | 667.5  |
| 52.5° | 558.0  | 563.2  | 568.5  | 571.1  | 573.6  | 578.9  | 581.5  | 589.3  | 591.9  | 599.7  | 602.4  |
| 55°   | 498.0  | 500.6  | 508.4  | 511.1  | 511.1  | 516.3  | 521.5  | 526.8  | 534.5  | 534.5  | 539.8  |
| 57.5° | 443.3  | 445.9  | 451.0  | 453.7  | 451.0  | 459.0  | 461.6  | 466.7  | 469.4  | 474.5  | 477.2  |
| 60°   | 388.5  | 393.8  | 396.3  | 396.3  | 398.9  | 401.6  | 406.7  | 406.7  | 412.0  | 417.3  | 417.3  |
| 62.5° | 336.4  | 339.0  | 341.5  | 344.2  | 346.8  | 344.2  | 352.0  | 352.0  | 357.2  | 359.9  | 365.0  |
| 65°   | 286.8  | 289.4  | 289.4  | 292.1  | 292.1  | 294.7  | 294.7  | 297.2  | 299.9  | 305.1  | 307.6  |
| 67.5° | 237.3  | 237.3  | 237.3  | 239.8  | 237.3  | 239.8  | 239.8  | 242.5  | 242.5  | 247.7  | 250.4  |
| 70°   | 193.0  | 190.4  | 187.7  | 187.7  | 187.7  | 187.7  | 185.1  | 187.7  | 187.7  | 190.4  | 190.4  |
| 72.5° | 148.7  | 146.0  | 143.4  | 140.8  | 140.8  | 138.2  | 135.6  | 138.2  | 138.2  | 140.8  | 140.8  |
| 75°   | 112.1  | 106.9  | 106.9  | 106.9  | 104.3  | 104.3  | 104.3  | 106.9  | 106.9  | 106.9  | 109.5  |
| 77.5° | 83.5   | 83.5   | 80.9   | 80.9   | 80.9   | 83.5   | 83.5   | 86.0   | 86.0   | 86.0   | 86.0   |
| 80°   | 62.5   | 65.2   | 65.2   | 65.2   | 65.2   | 67.8   | 67.8   | 67.8   | 67.8   | 70.4   | 70.4   |
| 82.5° | 47.0   | 47.0   | 47.0   | 47.0   | 49.6   | 49.6   | 49.6   | 49.6   | 49.6   | 49.6   | 49.6   |
| 85°   | 28.6   | 31.3   | 31.3   | 28.6   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   |
| 87.5° | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   |
| 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: P584404

CATALOG NUMBER: HCC8S35D010MB-HM82555830-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 | 1835.7 |
| 2.5°  | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1801.8 | 1801.8 | 1801.8 | 1799.2 |
| 5°    | 1765.3 | 1765.3 | 1765.3 | 1760.1 | 1762.7 | 1762.7 | 1757.5 | 1760.1 |
| 7.5°  | 1726.2 | 1723.6 | 1720.9 | 1720.9 | 1718.4 | 1715.8 | 1713.1 | 1715.8 |
| 10°   | 1681.9 | 1674.1 | 1674.1 | 1671.4 | 1671.4 | 1666.2 | 1666.2 | 1668.8 |
| 12.5° | 1632.3 | 1627.1 | 1627.1 | 1624.5 | 1621.9 | 1619.3 | 1616.7 | 1616.7 |
| 15°   | 1582.8 | 1577.5 | 1575.0 | 1572.4 | 1569.7 | 1564.5 | 1567.1 | 1564.5 |
| 17.5° | 1533.2 | 1525.4 | 1525.4 | 1522.8 | 1520.1 | 1515.0 | 1515.0 | 1512.4 |
| 20°   | 1475.8 | 1473.3 | 1468.0 | 1470.7 | 1468.0 | 1462.9 | 1460.2 | 1460.2 |
| 22.5° | 1418.6 | 1418.6 | 1415.9 | 1415.9 | 1413.3 | 1410.6 | 1408.1 | 1408.1 |
| 25°   | 1363.8 | 1361.2 | 1363.8 | 1363.8 | 1355.9 | 1355.9 | 1355.9 | 1358.5 |
| 27.5° | 1301.1 | 1303.8 | 1301.1 | 1301.1 | 1301.1 | 1301.1 | 1303.8 | 1301.1 |
| 30°   | 1238.6 | 1238.6 | 1238.6 | 1241.2 | 1246.4 | 1243.8 | 1243.8 | 1241.2 |
| 32.5° | 1170.8 | 1173.4 | 1173.4 | 1176.0 | 1178.6 | 1183.9 | 1183.9 | 1186.4 |
| 35°   | 1103.0 | 1108.1 | 1110.8 | 1108.1 | 1116.1 | 1116.1 | 1121.2 | 1121.2 |
| 37.5° | 1032.6 | 1035.2 | 1040.5 | 1043.0 | 1048.2 | 1050.9 | 1053.4 | 1053.4 |
| 40°   | 957.0  | 967.4  | 970.0  | 972.7  | 980.4  | 980.4  | 983.1  | 988.2  |
| 42.5° | 886.5  | 896.9  | 899.6  | 902.2  | 907.4  | 915.3  | 912.6  | 917.9  |
| 45°   | 818.7  | 826.6  | 829.3  | 831.8  | 839.7  | 842.2  | 842.2  | 850.1  |
| 47.5° | 745.8  | 751.0  | 753.5  | 758.8  | 764.0  | 769.2  | 774.4  | 771.9  |
| 50°   | 672.8  | 680.6  | 685.7  | 688.4  | 696.2  | 698.8  | 701.4  | 704.1  |
| 52.5° | 607.5  | 612.8  | 615.4  | 617.9  | 625.8  | 628.5  | 631.0  | 636.3  |
| 55°   | 545.0  | 547.6  | 552.8  | 550.2  | 558.0  | 560.7  | 563.2  | 568.5  |
| 57.5° | 482.4  | 485.0  | 487.6  | 487.6  | 492.9  | 498.0  | 500.6  | 503.3  |
| 60°   | 422.4  | 427.7  | 430.2  | 430.2  | 430.2  | 435.5  | 435.5  | 435.5  |
| 62.5° | 367.7  | 367.7  | 370.3  | 370.3  | 375.5  | 375.5  | 375.5  | 375.5  |
| 65°   | 310.3  | 312.9  | 315.6  | 315.6  | 320.7  | 318.1  | 323.3  | 320.7  |
| 67.5° | 250.4  | 250.4  | 255.5  | 255.5  | 252.9  | 255.5  | 255.5  | 255.5  |
| 70°   | 190.4  | 190.4  | 193.0  | 193.0  | 193.0  | 193.0  | 193.0  | 193.0  |
| 72.5° | 140.8  | 140.8  | 140.8  | 143.4  | 140.8  | 140.8  | 143.4  | 140.8  |
| 75°   | 109.5  | 109.5  | 109.5  | 109.5  | 109.5  | 109.5  | 109.5  | 109.5  |
| 77.5° | 86.0   | 86.0   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   |
| 80°   | 70.4   | 70.4   | 70.4   | 70.4   | 73.0   | 70.4   | 70.4   | 70.4   |
| 82.5° | 52.1   | 49.6   | 52.1   | 49.6   | 52.1   | 52.1   | 52.1   | 52.1   |
| 85°   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   | 31.3   |
| 87.5° | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   | 13.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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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(END OF REPORT)