

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: P584395

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584395  
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: HCC8S35D010MB-HM82555830-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3712.9 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

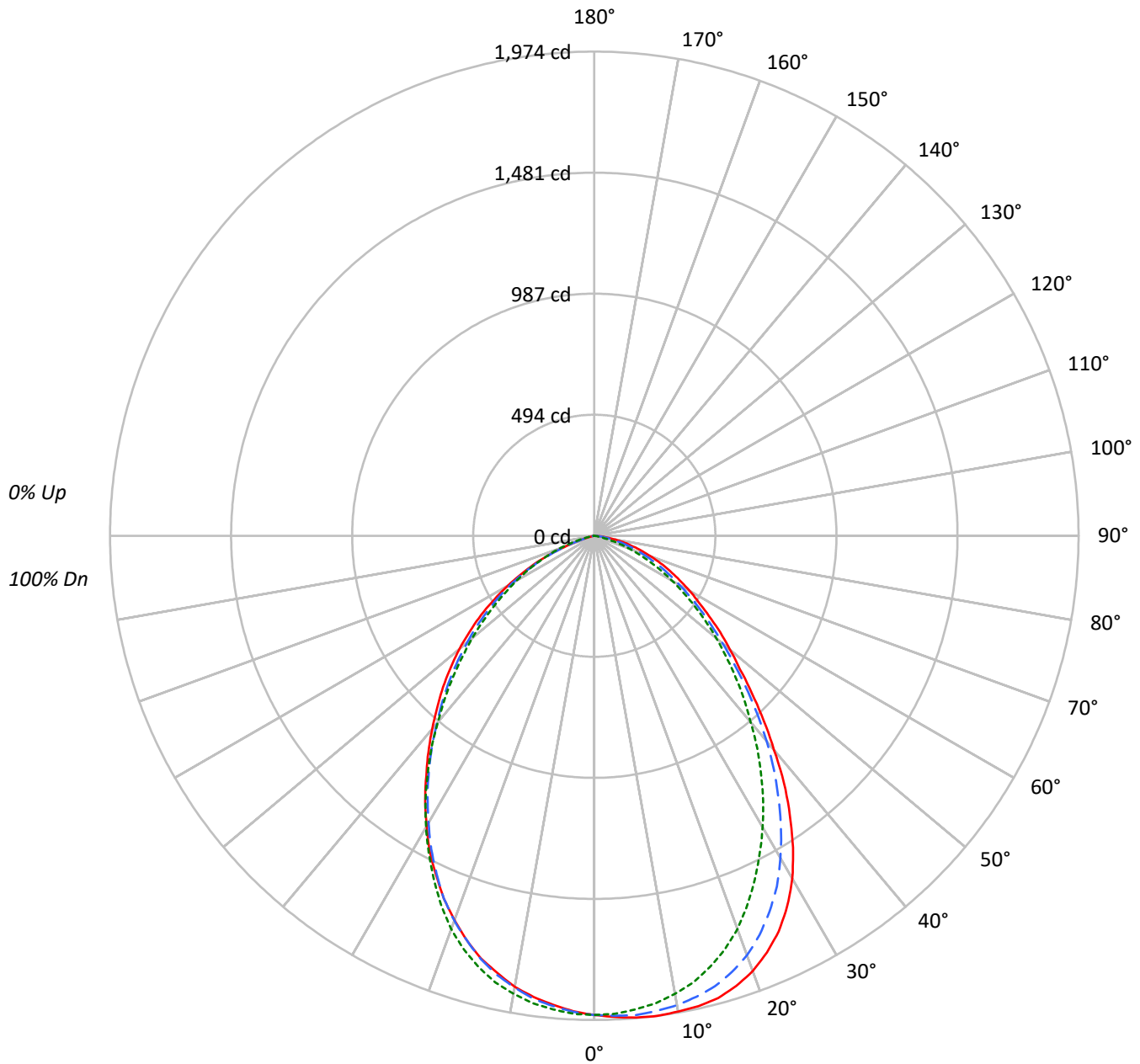
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



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   | 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  | 84  | 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°  | 60242 | 60242 | 60242 |
| 5°  | 61038 | 59986 | 59423 |
| 10° | 61663 | 59374 | 58478 |
| 15° | 62281 | 58121 | 56956 |
| 20° | 61968 | 55976 | 54693 |
| 25° | 60522 | 52625 | 51917 |
| 30° | 57487 | 48849 | 48664 |
| 35° | 52333 | 44574 | 44966 |
| 40° | 45881 | 39896 | 41365 |
| 45° | 39584 | 35489 | 37992 |
| 50° | 34660 | 31154 | 34406 |
| 55° | 30709 | 26779 | 30289 |
| 60° | 27673 | 22523 | 25088 |
| 65° | 24932 | 18073 | 19219 |
| 70° | 21873 | 13163 | 10585 |
| 75° | 18646 | 6839  | 2800  |
| 80° | 14366 | 1847  | 462   |
| 85° | 9234  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.3  | 5.0       |
| 10°-20°   | 518.2  | 14.0      |
| 20°-30°   | 735.5  | 19.8      |
| 30°-40°   | 774.2  | 20.9      |
| 40°-50°   | 658.6  | 17.7      |
| 50°-60°   | 475.9  | 12.8      |
| 60°-70°   | 270.7  | 7.3       |
| 70°-80°   | 85.3   | 2.3       |
| 80°-90°   | 10.4   | 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°    | 1437.9 | 38.7      |
| 0°-40°    | 2212.1 | 59.6      |
| 0°-60°    | 3346.6 | 90.1      |
| 0°-90°    | 3712.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3712.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1954 | 1954 | 1954 | 1954 | 1954 |      |
| 5°  | 1972 | 1961 | 1938 | 1925 | 1920 | 188  |
| 15° | 1951 | 1902 | 1821 | 1787 | 1784 | 549  |
| 25° | 1779 | 1690 | 1547 | 1521 | 1526 | 815  |
| 35° | 1390 | 1309 | 1184 | 1176 | 1194 | 865  |
| 45° | 908  | 874  | 814  | 835  | 871  | 706  |
| 55° | 571  | 530  | 498  | 527  | 563  | 515  |
| 65° | 342  | 295  | 248  | 245  | 263  | 339  |
| 75° | 156  | 120  | 57   | 26   | 24   | 168  |
| 85° | 26   | 16   | 0    | 0    | 0    | 34   |
| 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°    | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 |
| 2.5°  | 1964.0 | 1966.6 | 1961.4 | 1961.4 | 1966.6 | 1961.4 | 1964.0 | 1964.0 | 1961.4 | 1961.4 | 1958.8 |
| 5°    | 1971.9 | 1969.3 | 1969.3 | 1969.3 | 1971.9 | 1966.6 | 1964.0 | 1966.6 | 1961.4 | 1961.4 | 1961.4 |
| 7.5°  | 1974.4 | 1974.4 | 1971.9 | 1969.3 | 1969.3 | 1969.3 | 1966.6 | 1964.0 | 1961.4 | 1956.2 | 1953.6 |
| 10°   | 1969.3 | 1969.3 | 1971.9 | 1966.6 | 1966.6 | 1961.4 | 1961.4 | 1956.2 | 1956.2 | 1950.9 | 1943.2 |
| 12.5° | 1964.0 | 1961.4 | 1961.4 | 1956.2 | 1956.2 | 1950.9 | 1950.9 | 1943.2 | 1940.5 | 1932.7 | 1924.9 |
| 15°   | 1950.9 | 1948.4 | 1943.2 | 1940.5 | 1937.9 | 1935.4 | 1930.1 | 1927.5 | 1919.7 | 1909.3 | 1901.5 |
| 17.5° | 1924.9 | 1922.3 | 1919.7 | 1914.5 | 1909.3 | 1906.6 | 1904.0 | 1896.2 | 1885.8 | 1878.0 | 1864.9 |
| 20°   | 1888.4 | 1885.8 | 1885.8 | 1878.0 | 1875.3 | 1867.6 | 1864.9 | 1854.5 | 1846.6 | 1831.0 | 1820.6 |
| 22.5° | 1838.8 | 1841.4 | 1836.2 | 1831.0 | 1825.8 | 1818.0 | 1812.7 | 1802.3 | 1789.2 | 1773.6 | 1760.6 |
| 25°   | 1778.8 | 1781.4 | 1776.3 | 1771.0 | 1763.2 | 1757.9 | 1752.8 | 1737.1 | 1724.0 | 1705.8 | 1690.1 |
| 27.5° | 1703.2 | 1703.2 | 1703.2 | 1697.9 | 1685.0 | 1682.4 | 1677.1 | 1661.5 | 1643.2 | 1627.6 | 1611.9 |
| 30°   | 1614.5 | 1611.9 | 1611.9 | 1604.1 | 1598.9 | 1588.4 | 1580.6 | 1567.6 | 1554.5 | 1536.3 | 1518.0 |
| 32.5° | 1507.6 | 1510.2 | 1502.4 | 1497.1 | 1489.4 | 1489.4 | 1478.9 | 1468.5 | 1452.8 | 1434.6 | 1416.3 |
| 35°   | 1390.2 | 1392.8 | 1387.6 | 1385.0 | 1371.9 | 1369.3 | 1366.7 | 1353.7 | 1343.2 | 1330.3 | 1309.3 |
| 37.5° | 1270.2 | 1267.6 | 1265.0 | 1265.0 | 1257.2 | 1251.9 | 1246.8 | 1239.0 | 1223.3 | 1212.9 | 1202.4 |
| 40°   | 1139.8 | 1139.8 | 1139.8 | 1137.3 | 1134.6 | 1129.4 | 1126.7 | 1121.6 | 1111.1 | 1100.7 | 1092.8 |
| 42.5° | 1022.5 | 1022.5 | 1019.9 | 1017.2 | 1012.0 | 1014.6 | 1009.4 | 1004.2 | 993.7  | 986.0  | 980.7  |
| 45°   | 907.7  | 907.7  | 907.7  | 910.2  | 905.1  | 897.3  | 897.3  | 892.0  | 886.8  | 881.6  | 873.8  |
| 47.5° | 805.9  | 813.8  | 808.5  | 805.9  | 808.5  | 798.1  | 798.1  | 793.0  | 787.7  | 782.5  | 772.0  |
| 50°   | 722.5  | 722.5  | 722.5  | 717.2  | 714.6  | 714.6  | 706.8  | 701.7  | 699.0  | 693.8  | 683.3  |
| 52.5° | 646.8  | 641.6  | 641.6  | 639.0  | 636.4  | 631.2  | 631.2  | 626.0  | 615.5  | 610.4  | 602.5  |
| 55°   | 571.2  | 571.2  | 568.6  | 565.9  | 563.4  | 560.8  | 558.1  | 550.4  | 545.1  | 537.3  | 529.5  |
| 57.5° | 503.4  | 508.7  | 506.0  | 500.8  | 495.6  | 495.6  | 490.3  | 485.2  | 477.3  | 469.5  | 461.7  |
| 60°   | 448.7  | 446.0  | 446.0  | 443.4  | 438.2  | 435.6  | 433.0  | 425.2  | 417.3  | 409.5  | 401.7  |
| 62.5° | 391.3  | 391.3  | 391.3  | 386.0  | 380.8  | 378.2  | 375.6  | 370.4  | 360.0  | 352.1  | 346.9  |
| 65°   | 341.7  | 339.0  | 336.5  | 333.9  | 331.2  | 326.0  | 323.5  | 318.2  | 310.4  | 302.6  | 294.7  |
| 67.5° | 292.1  | 289.6  | 289.6  | 286.9  | 279.1  | 276.5  | 276.5  | 268.6  | 260.8  | 253.0  | 245.2  |
| 70°   | 242.6  | 242.6  | 242.6  | 237.3  | 234.7  | 232.2  | 229.5  | 224.3  | 216.5  | 208.7  | 200.8  |
| 72.5° | 200.8  | 198.3  | 198.3  | 195.6  | 187.8  | 185.2  | 182.6  | 177.3  | 169.5  | 164.4  | 159.1  |
| 75°   | 156.5  | 156.5  | 153.9  | 151.3  | 148.7  | 146.0  | 143.4  | 138.2  | 130.5  | 122.6  | 120.0  |
| 77.5° | 120.0  | 117.4  | 117.4  | 114.8  | 109.5  | 107.0  | 107.0  | 101.7  | 93.9   | 88.7   | 83.5   |
| 80°   | 80.9   | 83.5   | 80.9   | 78.2   | 75.6   | 73.1   | 70.4   | 67.8   | 62.7   | 57.4   | 52.1   |
| 82.5° | 49.6   | 52.1   | 49.6   | 49.6   | 47.0   | 44.3   | 44.3   | 39.2   | 36.5   | 33.9   | 31.3   |
| 85°   | 26.1   | 26.1   | 26.1   | 26.1   | 23.5   | 23.5   | 23.5   | 20.8   | 18.2   | 15.7   | 15.7   |
| 87.5° | 7.8    | 10.4   | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 5.3    | 5.3    | 5.3    |
| 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



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 |
| 2.5°  | 1961.4 | 1958.8 | 1956.2 | 1956.2 | 1956.2 | 1956.2 | 1956.2 | 1953.6 | 1950.9 | 1950.9 | 1950.9 |
| 5°    | 1956.2 | 1956.2 | 1956.2 | 1953.6 | 1950.9 | 1950.9 | 1945.8 | 1943.2 | 1940.5 | 1937.9 | 1935.4 |
| 7.5°  | 1950.9 | 1945.8 | 1943.2 | 1940.5 | 1937.9 | 1937.9 | 1932.7 | 1927.5 | 1927.5 | 1922.3 | 1917.0 |
| 10°   | 1935.4 | 1932.7 | 1927.5 | 1922.3 | 1919.7 | 1917.0 | 1911.9 | 1904.0 | 1901.5 | 1896.2 | 1891.0 |
| 12.5° | 1917.0 | 1911.9 | 1906.6 | 1896.2 | 1893.6 | 1891.0 | 1880.5 | 1872.7 | 1867.6 | 1864.9 | 1851.9 |
| 15°   | 1893.6 | 1883.1 | 1875.3 | 1862.3 | 1859.7 | 1854.5 | 1846.6 | 1838.8 | 1828.4 | 1820.6 | 1815.3 |
| 17.5° | 1851.9 | 1841.4 | 1828.4 | 1815.3 | 1810.2 | 1810.2 | 1797.1 | 1786.7 | 1773.6 | 1768.4 | 1757.9 |
| 20°   | 1802.3 | 1789.2 | 1778.8 | 1763.2 | 1755.3 | 1747.5 | 1739.7 | 1724.0 | 1713.6 | 1705.8 | 1692.8 |
| 22.5° | 1744.9 | 1726.7 | 1713.6 | 1697.9 | 1685.0 | 1677.1 | 1664.0 | 1651.1 | 1638.0 | 1630.1 | 1619.7 |
| 25°   | 1671.9 | 1656.2 | 1635.4 | 1619.7 | 1611.9 | 1601.5 | 1585.8 | 1572.7 | 1559.8 | 1546.7 | 1541.5 |
| 27.5° | 1591.1 | 1570.2 | 1551.9 | 1533.7 | 1525.9 | 1518.0 | 1499.8 | 1484.1 | 1473.7 | 1460.6 | 1455.5 |
| 30°   | 1502.4 | 1481.4 | 1460.6 | 1445.0 | 1437.1 | 1424.1 | 1413.6 | 1395.4 | 1382.4 | 1371.9 | 1358.9 |
| 32.5° | 1400.6 | 1385.0 | 1366.7 | 1343.2 | 1338.0 | 1327.6 | 1311.9 | 1304.1 | 1288.4 | 1280.7 | 1270.2 |
| 35°   | 1291.1 | 1280.7 | 1262.5 | 1244.1 | 1236.3 | 1231.1 | 1218.0 | 1202.4 | 1192.0 | 1184.1 | 1179.0 |
| 37.5° | 1186.7 | 1173.7 | 1155.5 | 1142.4 | 1137.3 | 1129.4 | 1113.8 | 1105.9 | 1095.5 | 1090.3 | 1079.9 |
| 40°   | 1074.6 | 1061.5 | 1048.5 | 1040.7 | 1032.9 | 1027.6 | 1017.2 | 1009.4 | 999.0  | 991.1  | 988.6  |
| 42.5° | 965.1  | 957.2  | 946.8  | 936.4  | 933.7  | 925.9  | 920.7  | 912.9  | 905.1  | 902.5  | 894.7  |
| 45°   | 865.9  | 858.1  | 847.7  | 837.3  | 834.6  | 829.4  | 826.9  | 819.0  | 813.8  | 813.8  | 813.8  |
| 47.5° | 766.8  | 759.1  | 748.6  | 743.4  | 746.0  | 735.6  | 735.6  | 732.9  | 727.7  | 727.7  | 730.3  |
| 50°   | 678.2  | 667.8  | 665.1  | 659.9  | 654.7  | 649.4  | 652.1  | 644.3  | 644.3  | 649.4  | 646.8  |
| 52.5° | 594.7  | 584.3  | 581.6  | 576.5  | 573.8  | 573.8  | 571.2  | 571.2  | 568.6  | 571.2  | 571.2  |
| 55°   | 519.1  | 511.2  | 506.0  | 500.8  | 498.1  | 498.1  | 498.1  | 495.6  | 493.0  | 498.1  | 500.8  |
| 57.5° | 451.3  | 448.7  | 443.4  | 435.6  | 433.0  | 430.3  | 427.8  | 427.8  | 427.8  | 427.8  | 430.3  |
| 60°   | 391.3  | 386.0  | 380.8  | 372.9  | 372.9  | 370.4  | 367.8  | 365.2  | 365.2  | 365.2  | 365.2  |
| 62.5° | 339.0  | 331.2  | 323.5  | 318.2  | 315.6  | 313.0  | 310.4  | 305.1  | 305.1  | 305.1  | 305.1  |
| 65°   | 286.9  | 279.1  | 273.9  | 268.6  | 263.4  | 263.4  | 258.2  | 255.7  | 250.4  | 247.7  | 242.6  |
| 67.5° | 237.3  | 232.2  | 226.9  | 219.1  | 216.5  | 213.8  | 208.7  | 206.1  | 198.3  | 195.6  | 193.0  |
| 70°   | 193.0  | 185.2  | 179.9  | 174.8  | 172.2  | 166.9  | 161.7  | 156.5  | 151.3  | 146.0  | 140.9  |
| 72.5° | 151.3  | 143.4  | 138.2  | 133.0  | 127.8  | 127.8  | 120.0  | 114.8  | 107.0  | 101.7  | 93.9   |
| 75°   | 112.1  | 104.3  | 99.1   | 91.3   | 88.7   | 86.0   | 78.2   | 73.1   | 65.2   | 57.4   | 52.1   |
| 77.5° | 75.6   | 70.4   | 65.2   | 57.4   | 52.1   | 52.1   | 44.3   | 39.2   | 33.9   | 26.1   | 23.5   |
| 80°   | 47.0   | 41.7   | 36.5   | 31.3   | 31.3   | 26.1   | 23.5   | 18.2   | 13.1   | 10.4   | 7.8    |
| 82.5° | 26.1   | 23.5   | 20.8   | 15.7   | 15.7   | 13.1   | 10.4   | 7.8    | 5.3    | 2.6    | 2.6    |
| 85°   | 13.1   | 10.4   | 7.8    | 7.8    | 5.3    | 5.3    | 5.3    | 2.6    | 2.6    | 0.0    | 0.0    |
| 87.5° | 5.3    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 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°    | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 |
| 2.5°  | 1948.4 | 1948.4 | 1945.8 | 1945.8 | 1945.8 | 1943.2 | 1945.8 | 1943.2 | 1943.2 | 1943.2 | 1945.8 |
| 5°    | 1937.9 | 1932.7 | 1932.7 | 1930.1 | 1930.1 | 1927.5 | 1930.1 | 1927.5 | 1924.9 | 1922.3 | 1924.9 |
| 7.5°  | 1917.0 | 1911.9 | 1909.3 | 1906.6 | 1906.6 | 1906.6 | 1904.0 | 1901.5 | 1904.0 | 1896.2 | 1901.5 |
| 10°   | 1888.4 | 1885.8 | 1880.5 | 1878.0 | 1875.3 | 1878.0 | 1875.3 | 1870.1 | 1870.1 | 1870.1 | 1867.6 |
| 12.5° | 1851.9 | 1846.6 | 1844.1 | 1841.4 | 1836.2 | 1836.2 | 1838.8 | 1833.7 | 1833.7 | 1828.4 | 1828.4 |
| 15°   | 1807.5 | 1802.3 | 1797.1 | 1797.1 | 1791.8 | 1791.8 | 1789.2 | 1789.2 | 1786.7 | 1784.1 | 1784.1 |
| 17.5° | 1752.8 | 1744.9 | 1739.7 | 1742.4 | 1739.7 | 1737.1 | 1737.1 | 1731.8 | 1729.3 | 1731.8 | 1731.8 |
| 20°   | 1687.5 | 1682.4 | 1677.1 | 1679.7 | 1674.6 | 1671.9 | 1674.6 | 1666.7 | 1669.3 | 1669.3 | 1669.3 |
| 22.5° | 1614.5 | 1611.9 | 1604.1 | 1604.1 | 1598.9 | 1596.2 | 1598.9 | 1598.9 | 1601.5 | 1598.9 | 1598.9 |
| 25°   | 1533.7 | 1528.4 | 1523.3 | 1523.3 | 1520.6 | 1518.0 | 1520.6 | 1523.3 | 1520.6 | 1523.3 | 1523.3 |
| 27.5° | 1447.5 | 1439.8 | 1439.8 | 1434.6 | 1434.6 | 1437.1 | 1434.6 | 1437.1 | 1439.8 | 1439.8 | 1445.0 |
| 30°   | 1353.7 | 1351.1 | 1348.5 | 1345.8 | 1345.8 | 1348.5 | 1348.5 | 1348.5 | 1351.1 | 1356.3 | 1356.3 |
| 32.5° | 1265.0 | 1259.8 | 1254.5 | 1254.5 | 1259.8 | 1257.2 | 1259.8 | 1259.8 | 1265.0 | 1265.0 | 1270.2 |
| 35°   | 1168.5 | 1168.5 | 1163.3 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1171.2 | 1176.3 | 1179.0 | 1184.1 |
| 37.5° | 1079.9 | 1072.0 | 1074.6 | 1074.6 | 1077.2 | 1074.6 | 1082.4 | 1082.4 | 1087.7 | 1087.7 | 1092.8 |
| 40°   | 983.3  | 983.3  | 986.0  | 983.3  | 986.0  | 986.0  | 991.1  | 996.4  | 999.0  | 1004.2 | 1006.8 |
| 42.5° | 892.0  | 897.3  | 892.0  | 894.7  | 897.3  | 899.8  | 902.5  | 905.1  | 915.5  | 920.7  | 928.6  |
| 45°   | 808.5  | 811.2  | 813.8  | 816.4  | 813.8  | 819.0  | 821.6  | 826.9  | 834.6  | 837.3  | 839.9  |
| 47.5° | 727.7  | 730.3  | 732.9  | 735.6  | 735.6  | 740.7  | 743.4  | 748.6  | 753.8  | 756.4  | 759.1  |
| 50°   | 649.4  | 654.7  | 657.3  | 657.3  | 659.9  | 665.1  | 670.3  | 670.3  | 675.6  | 683.3  | 686.0  |
| 52.5° | 579.0  | 579.0  | 584.3  | 586.9  | 589.4  | 589.4  | 597.3  | 600.0  | 602.5  | 607.7  | 612.9  |
| 55°   | 500.8  | 508.7  | 511.2  | 511.2  | 516.5  | 521.6  | 524.2  | 526.9  | 526.9  | 537.3  | 537.3  |
| 57.5° | 433.0  | 435.6  | 440.7  | 440.7  | 440.7  | 448.7  | 448.7  | 453.8  | 456.4  | 459.1  | 464.2  |
| 60°   | 365.2  | 370.4  | 370.4  | 372.9  | 370.4  | 375.6  | 378.2  | 383.4  | 386.0  | 388.6  | 391.3  |
| 62.5° | 302.6  | 302.6  | 305.1  | 305.1  | 305.1  | 305.1  | 310.4  | 310.4  | 315.6  | 318.2  | 320.8  |
| 65°   | 242.6  | 242.6  | 242.6  | 242.6  | 242.6  | 242.6  | 242.6  | 242.6  | 245.2  | 245.2  | 250.4  |
| 67.5° | 187.8  | 185.2  | 179.9  | 182.6  | 179.9  | 179.9  | 177.3  | 177.3  | 179.9  | 179.9  | 185.2  |
| 70°   | 135.6  | 133.0  | 127.8  | 127.8  | 125.2  | 122.6  | 120.0  | 117.4  | 114.8  | 114.8  | 114.8  |
| 72.5° | 88.7   | 83.5   | 75.6   | 73.1   | 73.1   | 67.8   | 62.7   | 60.0   | 60.0   | 60.0   | 60.0   |
| 75°   | 44.3   | 39.2   | 33.9   | 31.3   | 31.3   | 26.1   | 28.6   | 26.1   | 26.1   | 26.1   | 26.1   |
| 77.5° | 18.2   | 13.1   | 10.4   | 10.4   | 10.4   | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 80°   | 5.3    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 82.5° | 2.6    | 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: P584395

CATALOG NUMBER: HCC8S35D010MB-HM82555830-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 | 1953.6 |
| 2.5°  | 1943.2 | 1943.2 | 1937.9 | 1940.5 | 1940.5 | 1940.5 | 1940.5 | 1940.5 |
| 5°    | 1919.7 | 1922.3 | 1919.7 | 1922.3 | 1922.3 | 1919.7 | 1919.7 | 1919.7 |
| 7.5°  | 1896.2 | 1898.8 | 1896.2 | 1898.8 | 1898.8 | 1898.8 | 1896.2 | 1896.2 |
| 10°   | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1864.9 | 1867.6 | 1867.6 |
| 12.5° | 1828.4 | 1828.4 | 1828.4 | 1831.0 | 1831.0 | 1828.4 | 1828.4 | 1825.8 |
| 15°   | 1786.7 | 1781.4 | 1784.1 | 1786.7 | 1784.1 | 1784.1 | 1784.1 | 1784.1 |
| 17.5° | 1729.3 | 1731.8 | 1729.3 | 1729.3 | 1729.3 | 1729.3 | 1731.8 | 1729.3 |
| 20°   | 1669.3 | 1669.3 | 1671.9 | 1669.3 | 1669.3 | 1669.3 | 1669.3 | 1666.7 |
| 22.5° | 1601.5 | 1598.9 | 1598.9 | 1601.5 | 1601.5 | 1598.9 | 1601.5 | 1601.5 |
| 25°   | 1525.9 | 1528.4 | 1525.9 | 1525.9 | 1528.4 | 1528.4 | 1528.4 | 1525.9 |
| 27.5° | 1445.0 | 1447.5 | 1450.2 | 1447.5 | 1447.5 | 1447.5 | 1450.2 | 1452.8 |
| 30°   | 1361.5 | 1366.7 | 1361.5 | 1361.5 | 1366.7 | 1364.2 | 1366.7 | 1366.7 |
| 32.5° | 1272.9 | 1280.7 | 1275.4 | 1280.7 | 1280.7 | 1283.3 | 1280.7 | 1283.3 |
| 35°   | 1184.1 | 1192.0 | 1192.0 | 1192.0 | 1194.5 | 1197.2 | 1197.2 | 1194.5 |
| 37.5° | 1100.7 | 1103.2 | 1103.2 | 1108.5 | 1111.1 | 1113.8 | 1113.8 | 1111.1 |
| 40°   | 1014.6 | 1019.9 | 1022.5 | 1022.5 | 1022.5 | 1027.6 | 1032.9 | 1027.6 |
| 42.5° | 931.2  | 933.7  | 936.4  | 936.4  | 941.6  | 944.1  | 946.8  | 946.8  |
| 45°   | 850.3  | 855.5  | 858.1  | 860.8  | 863.3  | 868.6  | 865.9  | 871.2  |
| 47.5° | 766.8  | 774.6  | 777.3  | 779.9  | 785.0  | 787.7  | 790.3  | 793.0  |
| 50°   | 691.2  | 696.4  | 696.4  | 701.7  | 709.5  | 709.5  | 714.6  | 717.2  |
| 52.5° | 615.5  | 618.2  | 620.8  | 623.3  | 628.6  | 633.9  | 633.9  | 639.0  |
| 55°   | 542.6  | 545.1  | 545.1  | 547.7  | 550.4  | 560.8  | 563.4  | 563.4  |
| 57.5° | 466.9  | 466.9  | 472.1  | 474.6  | 477.3  | 482.6  | 482.6  | 482.6  |
| 60°   | 393.9  | 396.4  | 396.4  | 399.1  | 401.7  | 406.8  | 409.5  | 406.8  |
| 62.5° | 320.8  | 323.5  | 323.5  | 326.0  | 331.2  | 333.9  | 331.2  | 331.2  |
| 65°   | 253.0  | 255.7  | 255.7  | 258.2  | 263.4  | 263.4  | 260.8  | 263.4  |
| 67.5° | 185.2  | 185.2  | 185.2  | 185.2  | 185.2  | 185.2  | 185.2  | 185.2  |
| 70°   | 117.4  | 114.8  | 112.1  | 114.8  | 114.8  | 114.8  | 112.1  | 117.4  |
| 72.5° | 57.4   | 60.0   | 60.0   | 60.0   | 60.0   | 60.0   | 60.0   | 57.4   |
| 75°   | 26.1   | 26.1   | 23.5   | 23.5   | 23.5   | 26.1   | 26.1   | 23.5   |
| 77.5° | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 80°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

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