

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: P584487

Luminaire Tested: **HCC8S35D010BZ-HM82555935-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S35D010BZ-HM82555935-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

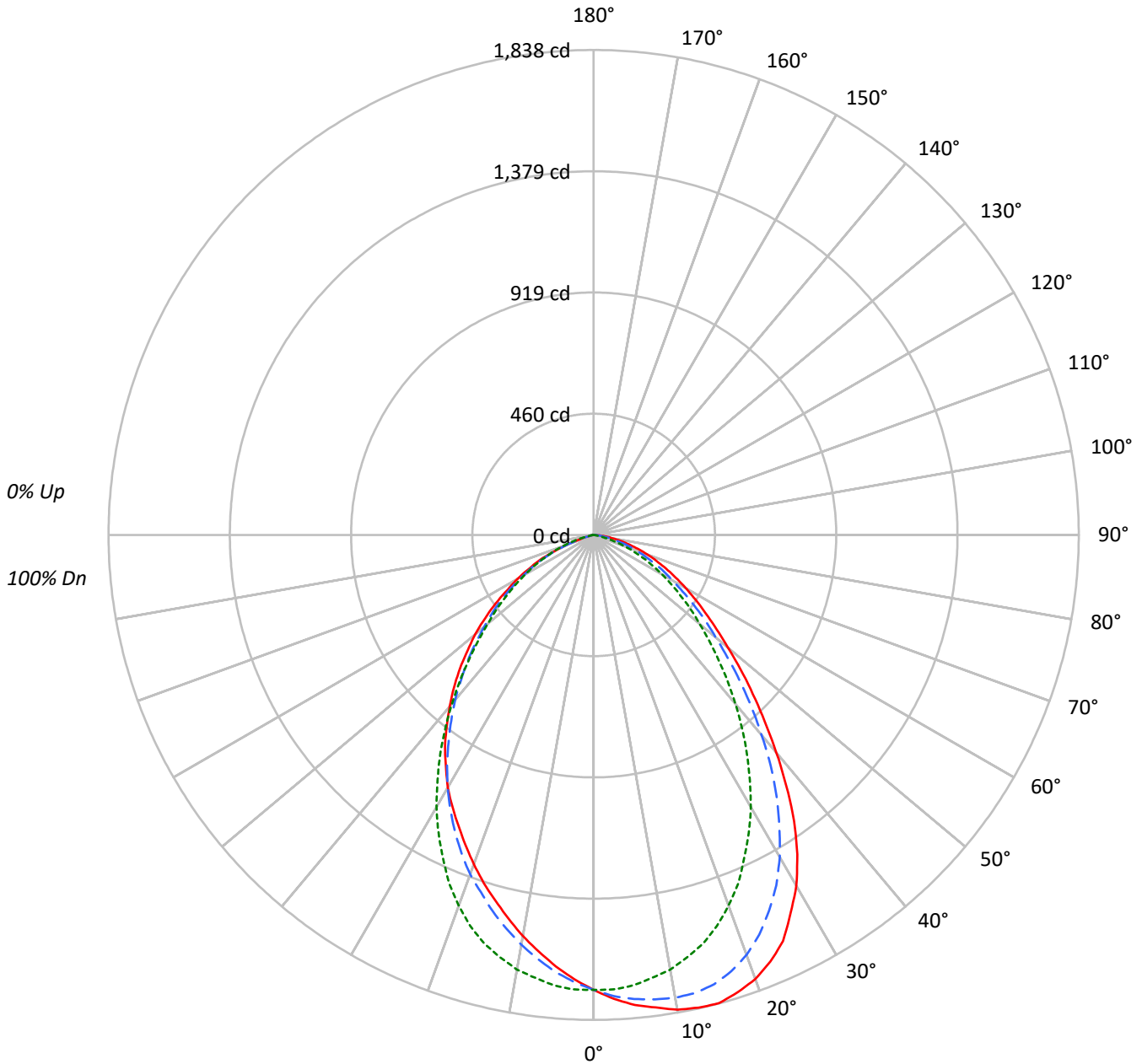
Lumens per Lamp: N/A  
Luminaire Lumens: 3211.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |    |    | 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  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 82  | 70  | 63  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 43  | 37  | 61  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 59  | 47  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 53168 | 53168 | 53168 |
| 5°  | 55365 | 53052 | 50814 |
| 10° | 57213 | 52372 | 48336 |
| 15° | 58661 | 51174 | 45824 |
| 20° | 58776 | 49049 | 43556 |
| 25° | 57787 | 45946 | 41298 |
| 30° | 54692 | 42397 | 39367 |
| 35° | 49863 | 38126 | 36963 |
| 40° | 43362 | 33612 | 34131 |
| 45° | 37203 | 29109 | 31242 |
| 50° | 31777 | 25099 | 28064 |
| 55° | 27848 | 21612 | 24386 |
| 60° | 24792 | 18434 | 20500 |
| 65° | 21999 | 15045 | 16366 |
| 70° | 19519 | 11162 | 9286  |
| 75° | 16275 | 5838  | 2764  |
| 80° | 12803 | 1829  | 462   |
| 85° | 9128  | 920   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.5  | 5.1       |
| 10°-20°   | 455.3  | 14.2      |
| 20°-30°   | 644.5  | 20.1      |
| 30°-40°   | 674.3  | 21.0      |
| 40°-50°   | 562.4  | 17.5      |
| 50°-60°   | 398.8  | 12.4      |
| 60°-70°   | 229.7  | 7.2       |
| 70°-80°   | 73.9   | 2.3       |
| 80°-90°   | 10.2   | 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°    | 1262.3 | 39.3      |
| 0°-40°    | 1936.6 | 60.3      |
| 0°-60°    | 2897.8 | 90.2      |
| 0°-90°    | 3211.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3211.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1724 | 1724 | 1724 | 1724 | 1724 |      |
| 5°  | 1789 | 1765 | 1714 | 1662 | 1642 | 172  |
| 15° | 1838 | 1763 | 1603 | 1477 | 1435 | 517  |
| 25° | 1698 | 1572 | 1350 | 1242 | 1214 | 775  |
| 35° | 1325 | 1209 | 1013 | 959  | 982  | 821  |
| 45° | 853  | 784  | 668  | 675  | 716  | 661  |
| 55° | 518  | 464  | 402  | 423  | 454  | 468  |
| 65° | 302  | 252  | 206  | 206  | 224  | 301  |
| 75° | 137  | 100  | 49   | 23   | 23   | 148  |
| 85° | 26   | 13   | 3    | 0    | 0    | 32   |
| 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°    | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 |
| 2.5°  | 1760.2 | 1757.6 | 1755.1 | 1757.6 | 1755.1 | 1757.6 | 1755.1 | 1755.1 | 1752.4 | 1749.9 | 1749.9 |
| 5°    | 1788.6 | 1786.0 | 1786.0 | 1786.0 | 1783.5 | 1780.8 | 1780.8 | 1778.3 | 1773.2 | 1770.5 | 1765.4 |
| 7.5°  | 1806.6 | 1809.2 | 1809.2 | 1809.2 | 1804.1 | 1804.1 | 1798.9 | 1793.8 | 1788.6 | 1783.5 | 1775.7 |
| 10°   | 1827.2 | 1827.2 | 1824.7 | 1822.0 | 1816.9 | 1814.4 | 1811.7 | 1806.6 | 1798.9 | 1788.6 | 1780.8 |
| 12.5° | 1835.0 | 1835.0 | 1832.3 | 1827.2 | 1824.7 | 1822.0 | 1819.5 | 1811.7 | 1801.4 | 1788.6 | 1778.3 |
| 15°   | 1837.5 | 1832.3 | 1829.8 | 1827.2 | 1822.0 | 1814.4 | 1814.4 | 1804.1 | 1791.1 | 1775.7 | 1762.7 |
| 17.5° | 1816.9 | 1819.5 | 1814.4 | 1809.2 | 1801.4 | 1796.3 | 1788.6 | 1780.8 | 1765.4 | 1747.3 | 1734.5 |
| 20°   | 1791.1 | 1788.6 | 1786.0 | 1778.3 | 1768.0 | 1765.4 | 1757.6 | 1744.8 | 1731.8 | 1711.2 | 1693.3 |
| 22.5° | 1749.9 | 1747.3 | 1742.1 | 1737.0 | 1726.7 | 1721.5 | 1713.9 | 1698.4 | 1680.3 | 1659.7 | 1639.1 |
| 25°   | 1698.4 | 1693.3 | 1685.5 | 1675.2 | 1667.5 | 1662.2 | 1651.9 | 1636.5 | 1615.9 | 1592.7 | 1572.1 |
| 27.5° | 1615.9 | 1623.6 | 1618.5 | 1603.0 | 1595.3 | 1585.0 | 1582.4 | 1561.8 | 1543.7 | 1520.5 | 1497.4 |
| 30°   | 1536.0 | 1536.0 | 1528.3 | 1520.5 | 1507.7 | 1499.9 | 1489.6 | 1474.1 | 1456.2 | 1427.8 | 1409.7 |
| 32.5° | 1435.4 | 1432.9 | 1422.6 | 1420.0 | 1409.7 | 1394.2 | 1391.7 | 1371.1 | 1353.0 | 1332.4 | 1309.2 |
| 35°   | 1324.6 | 1319.5 | 1309.2 | 1301.5 | 1296.4 | 1288.6 | 1280.9 | 1262.8 | 1244.7 | 1224.1 | 1208.7 |
| 37.5° | 1198.4 | 1198.4 | 1195.8 | 1182.9 | 1177.8 | 1172.6 | 1164.9 | 1146.8 | 1136.5 | 1115.9 | 1100.5 |
| 40°   | 1077.2 | 1074.7 | 1066.9 | 1064.4 | 1059.3 | 1051.5 | 1046.3 | 1036.0 | 1020.6 | 1005.1 | 989.7  |
| 42.5° | 958.8  | 961.3  | 951.0  | 953.6  | 943.3  | 938.2  | 935.5  | 920.1  | 912.3  | 896.8  | 884.0  |
| 45°   | 853.1  | 850.5  | 845.3  | 842.8  | 837.6  | 832.5  | 827.2  | 819.6  | 806.6  | 791.2  | 783.5  |
| 47.5° | 755.1  | 747.4  | 747.4  | 744.8  | 742.3  | 732.0  | 729.3  | 721.6  | 713.9  | 698.4  | 688.1  |
| 50°   | 662.4  | 662.4  | 662.4  | 659.7  | 652.1  | 649.4  | 644.3  | 636.6  | 628.8  | 618.5  | 603.1  |
| 52.5° | 587.6  | 587.6  | 587.6  | 585.0  | 574.7  | 572.2  | 569.5  | 559.2  | 548.9  | 541.3  | 531.0  |
| 55°   | 518.0  | 520.7  | 518.0  | 512.9  | 505.1  | 505.1  | 497.4  | 492.3  | 482.0  | 474.2  | 463.9  |
| 57.5° | 458.7  | 458.7  | 453.6  | 451.0  | 445.9  | 443.3  | 438.1  | 433.0  | 420.1  | 412.4  | 399.4  |
| 60°   | 402.0  | 399.4  | 399.4  | 394.3  | 389.1  | 384.0  | 381.4  | 373.7  | 368.5  | 355.7  | 345.4  |
| 62.5° | 350.5  | 350.5  | 345.4  | 345.4  | 335.1  | 335.1  | 332.4  | 324.8  | 317.0  | 304.1  | 298.9  |
| 65°   | 301.5  | 301.5  | 298.9  | 296.4  | 288.6  | 286.1  | 283.4  | 275.8  | 268.0  | 260.3  | 252.5  |
| 67.5° | 257.7  | 257.7  | 252.5  | 250.0  | 244.9  | 242.2  | 237.1  | 231.9  | 224.3  | 216.5  | 208.8  |
| 70°   | 216.5  | 214.0  | 211.3  | 208.8  | 203.5  | 201.0  | 195.9  | 190.7  | 182.9  | 177.8  | 170.1  |
| 72.5° | 175.3  | 175.3  | 172.6  | 167.5  | 165.0  | 162.3  | 159.8  | 154.7  | 146.9  | 139.2  | 134.1  |
| 75°   | 136.6  | 136.6  | 136.6  | 131.4  | 126.3  | 123.8  | 123.8  | 118.6  | 113.5  | 105.7  | 100.5  |
| 77.5° | 105.7  | 103.0  | 100.5  | 100.5  | 95.4   | 92.7   | 90.2   | 87.6   | 79.9   | 77.3   | 72.1   |
| 80°   | 72.1   | 74.8   | 72.1   | 69.6   | 67.0   | 64.5   | 64.5   | 59.3   | 56.7   | 51.5   | 46.4   |
| 82.5° | 49.0   | 46.4   | 46.4   | 43.8   | 43.8   | 41.2   | 41.2   | 36.1   | 33.5   | 30.9   | 28.4   |
| 85°   | 25.8   | 25.8   | 23.2   | 23.2   | 23.2   | 20.6   | 20.6   | 18.1   | 18.1   | 15.5   | 12.9   |
| 87.5° | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 5.2    | 5.2    | 5.2    |
| 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°    | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 |
| 2.5°  | 1747.3 | 1742.1 | 1739.6 | 1739.6 | 1737.0 | 1734.5 | 1731.8 | 1729.3 | 1724.2 | 1724.2 | 1719.0 |
| 5°    | 1760.2 | 1755.1 | 1752.4 | 1744.8 | 1739.6 | 1739.6 | 1729.3 | 1726.7 | 1719.0 | 1713.9 | 1708.7 |
| 7.5°  | 1770.5 | 1760.2 | 1752.4 | 1744.8 | 1739.6 | 1734.5 | 1724.2 | 1713.9 | 1703.6 | 1693.3 | 1688.1 |
| 10°   | 1770.5 | 1760.2 | 1747.3 | 1734.5 | 1729.3 | 1724.2 | 1711.2 | 1695.8 | 1683.0 | 1672.6 | 1659.7 |
| 12.5° | 1765.4 | 1749.9 | 1734.5 | 1724.2 | 1713.9 | 1706.1 | 1690.6 | 1675.2 | 1659.7 | 1639.1 | 1628.8 |
| 15°   | 1749.9 | 1729.3 | 1713.9 | 1695.8 | 1688.1 | 1675.2 | 1662.2 | 1639.1 | 1621.0 | 1603.0 | 1590.1 |
| 17.5° | 1719.0 | 1693.3 | 1675.2 | 1657.1 | 1644.3 | 1636.5 | 1615.9 | 1595.3 | 1574.7 | 1554.0 | 1538.6 |
| 20°   | 1672.6 | 1649.4 | 1628.8 | 1605.6 | 1595.3 | 1585.0 | 1559.2 | 1538.6 | 1518.0 | 1494.7 | 1479.3 |
| 22.5° | 1615.9 | 1592.7 | 1564.3 | 1546.3 | 1530.8 | 1518.0 | 1494.7 | 1471.6 | 1450.9 | 1430.3 | 1409.7 |
| 25°   | 1546.3 | 1523.1 | 1497.4 | 1469.0 | 1458.7 | 1445.7 | 1420.0 | 1396.9 | 1373.6 | 1350.4 | 1332.4 |
| 27.5° | 1471.6 | 1440.6 | 1420.0 | 1389.1 | 1378.8 | 1366.0 | 1337.6 | 1311.8 | 1291.2 | 1273.1 | 1252.5 |
| 30°   | 1381.4 | 1358.2 | 1329.8 | 1301.5 | 1291.2 | 1278.3 | 1255.1 | 1231.9 | 1211.3 | 1190.7 | 1170.1 |
| 32.5° | 1283.4 | 1260.3 | 1231.9 | 1211.3 | 1195.8 | 1185.5 | 1162.3 | 1141.7 | 1121.1 | 1100.5 | 1082.4 |
| 35°   | 1180.4 | 1154.6 | 1133.9 | 1113.3 | 1100.5 | 1087.5 | 1064.4 | 1046.3 | 1030.9 | 1012.8 | 994.8  |
| 37.5° | 1074.7 | 1056.6 | 1036.0 | 1012.8 | 1000.0 | 989.7  | 971.6  | 951.0  | 938.2  | 922.6  | 909.8  |
| 40°   | 971.6  | 951.0  | 932.9  | 912.3  | 902.0  | 894.3  | 876.2  | 860.8  | 847.9  | 835.0  | 827.2  |
| 42.5° | 865.9  | 847.9  | 829.9  | 816.9  | 809.2  | 801.5  | 788.6  | 770.6  | 762.9  | 749.9  | 742.3  |
| 45°   | 768.0  | 752.6  | 739.6  | 721.6  | 716.4  | 711.3  | 695.8  | 683.0  | 675.2  | 667.5  | 662.4  |
| 47.5° | 675.2  | 664.9  | 649.4  | 639.1  | 631.5  | 626.3  | 615.9  | 605.6  | 597.9  | 592.8  | 587.6  |
| 50°   | 595.3  | 582.5  | 572.2  | 561.9  | 556.7  | 548.9  | 538.6  | 533.5  | 528.3  | 523.2  | 523.2  |
| 52.5° | 520.7  | 507.7  | 497.4  | 489.6  | 484.5  | 479.3  | 471.7  | 469.0  | 463.9  | 463.9  | 461.3  |
| 55°   | 451.0  | 443.3  | 433.0  | 422.7  | 420.1  | 417.5  | 412.4  | 407.2  | 404.6  | 402.0  | 404.6  |
| 57.5° | 391.7  | 384.0  | 373.7  | 366.0  | 363.4  | 360.8  | 358.2  | 353.1  | 350.5  | 350.5  | 350.5  |
| 60°   | 337.6  | 329.9  | 322.1  | 314.5  | 314.5  | 309.2  | 306.7  | 304.1  | 301.5  | 298.9  | 298.9  |
| 62.5° | 288.6  | 280.9  | 273.1  | 268.0  | 265.5  | 262.8  | 257.7  | 255.2  | 252.5  | 252.5  | 250.0  |
| 65°   | 244.9  | 234.6  | 231.9  | 224.3  | 221.6  | 219.1  | 216.5  | 211.3  | 208.8  | 206.2  | 203.5  |
| 67.5° | 201.0  | 195.9  | 188.1  | 182.9  | 180.4  | 177.8  | 175.3  | 170.1  | 167.5  | 165.0  | 159.8  |
| 70°   | 162.3  | 157.2  | 152.0  | 146.9  | 144.4  | 141.7  | 136.6  | 131.4  | 128.9  | 123.8  | 116.0  |
| 72.5° | 126.3  | 121.1  | 116.0  | 110.8  | 108.3  | 105.7  | 100.5  | 95.4   | 90.2   | 85.1   | 79.9   |
| 75°   | 95.4   | 90.2   | 82.4   | 77.3   | 74.8   | 74.8   | 67.0   | 61.8   | 56.7   | 49.0   | 43.8   |
| 77.5° | 67.0   | 59.3   | 56.7   | 51.5   | 49.0   | 43.8   | 38.7   | 33.5   | 28.4   | 25.8   | 20.6   |
| 80°   | 43.8   | 38.7   | 33.5   | 30.9   | 28.4   | 25.8   | 23.2   | 18.1   | 12.9   | 10.3   | 7.8    |
| 82.5° | 25.8   | 23.2   | 20.6   | 18.1   | 15.5   | 12.9   | 10.3   | 10.3   | 7.8    | 5.2    | 2.6    |
| 85°   | 12.9   | 10.3   | 7.8    | 7.8    | 5.2    | 5.2    | 5.2    | 2.6    | 2.6    | 2.6    | 2.6    |
| 87.5° | 5.2    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 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: P584487

CATALOG NUMBER: HCC8S35D010BZ-HM82555935-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 |
| 2.5°  | 1716.4 | 1713.9 | 1711.2 | 1708.7 | 1708.7 | 1703.6 | 1703.6 | 1700.9 | 1695.8 | 1693.3 | 1693.3 |
| 5°    | 1700.9 | 1693.3 | 1688.1 | 1685.5 | 1683.0 | 1675.2 | 1672.6 | 1667.5 | 1662.2 | 1657.1 | 1654.6 |
| 7.5°  | 1677.8 | 1664.9 | 1659.7 | 1657.1 | 1649.4 | 1641.6 | 1636.5 | 1628.8 | 1621.0 | 1613.3 | 1610.7 |
| 10°   | 1649.4 | 1636.5 | 1623.6 | 1618.5 | 1610.7 | 1605.6 | 1595.3 | 1585.0 | 1577.3 | 1569.5 | 1561.8 |
| 12.5° | 1613.3 | 1597.9 | 1585.0 | 1579.8 | 1572.1 | 1561.8 | 1546.3 | 1541.1 | 1528.3 | 1523.1 | 1512.8 |
| 15°   | 1572.1 | 1554.0 | 1541.1 | 1533.4 | 1525.7 | 1510.2 | 1499.9 | 1489.6 | 1476.8 | 1471.6 | 1461.3 |
| 17.5° | 1520.5 | 1499.9 | 1487.1 | 1479.3 | 1474.1 | 1461.3 | 1445.7 | 1432.9 | 1420.0 | 1414.8 | 1407.2 |
| 20°   | 1458.7 | 1445.7 | 1427.8 | 1420.0 | 1414.8 | 1399.4 | 1383.9 | 1378.8 | 1368.5 | 1358.2 | 1350.4 |
| 22.5° | 1389.1 | 1376.3 | 1358.2 | 1350.4 | 1347.9 | 1334.9 | 1322.1 | 1314.3 | 1306.7 | 1298.9 | 1291.2 |
| 25°   | 1317.0 | 1301.5 | 1286.1 | 1280.9 | 1275.8 | 1265.4 | 1255.1 | 1250.0 | 1242.2 | 1237.1 | 1231.9 |
| 27.5° | 1239.6 | 1224.1 | 1211.3 | 1203.5 | 1198.4 | 1190.7 | 1185.5 | 1180.4 | 1175.2 | 1170.1 | 1167.5 |
| 30°   | 1157.1 | 1141.7 | 1131.4 | 1126.2 | 1121.1 | 1118.5 | 1110.8 | 1108.1 | 1105.6 | 1100.5 | 1103.0 |
| 32.5° | 1074.7 | 1061.8 | 1051.5 | 1043.8 | 1043.8 | 1038.5 | 1036.0 | 1036.0 | 1033.4 | 1033.4 | 1033.4 |
| 35°   | 984.5  | 976.7  | 969.1  | 966.4  | 963.9  | 961.3  | 958.8  | 961.3  | 958.8  | 961.3  | 963.9  |
| 37.5° | 902.0  | 894.3  | 889.2  | 886.5  | 884.0  | 886.5  | 884.0  | 884.0  | 886.5  | 891.7  | 894.3  |
| 40°   | 816.9  | 811.8  | 806.6  | 809.2  | 806.6  | 806.6  | 806.6  | 814.4  | 816.9  | 819.6  | 822.1  |
| 42.5° | 737.1  | 732.0  | 729.3  | 729.3  | 732.0  | 729.3  | 734.5  | 737.1  | 742.3  | 749.9  | 755.1  |
| 45°   | 659.7  | 657.2  | 657.2  | 659.7  | 657.2  | 662.4  | 662.4  | 667.5  | 675.2  | 680.3  | 685.5  |
| 47.5° | 587.6  | 587.6  | 587.6  | 590.1  | 590.1  | 592.8  | 597.9  | 600.4  | 605.6  | 610.7  | 615.9  |
| 50°   | 520.7  | 523.2  | 525.8  | 525.8  | 525.8  | 531.0  | 536.1  | 538.6  | 541.3  | 543.8  | 551.6  |
| 52.5° | 461.3  | 463.9  | 463.9  | 466.5  | 469.0  | 471.7  | 474.2  | 479.3  | 482.0  | 487.1  | 489.6  |
| 55°   | 404.6  | 404.6  | 409.7  | 412.4  | 412.4  | 412.4  | 417.5  | 417.5  | 422.7  | 425.3  | 430.4  |
| 57.5° | 350.5  | 353.1  | 353.1  | 355.7  | 355.7  | 358.2  | 360.8  | 363.4  | 366.0  | 368.5  | 371.1  |
| 60°   | 298.9  | 298.9  | 298.9  | 301.5  | 304.1  | 306.7  | 304.1  | 309.2  | 309.2  | 314.5  | 317.0  |
| 62.5° | 250.0  | 252.5  | 252.5  | 252.5  | 252.5  | 252.5  | 252.5  | 255.2  | 257.7  | 260.3  | 262.8  |
| 65°   | 203.5  | 203.5  | 203.5  | 201.0  | 203.5  | 201.0  | 203.5  | 206.2  | 206.2  | 208.8  | 211.3  |
| 67.5° | 157.2  | 157.2  | 152.0  | 152.0  | 154.7  | 154.7  | 154.7  | 154.7  | 152.0  | 157.2  | 157.2  |
| 70°   | 113.5  | 110.8  | 108.3  | 105.7  | 105.7  | 103.0  | 103.0  | 100.5  | 100.5  | 100.5  | 100.5  |
| 72.5° | 74.8   | 69.6   | 64.5   | 61.8   | 59.3   | 59.3   | 54.1   | 51.5   | 54.1   | 54.1   | 54.1   |
| 75°   | 38.7   | 33.5   | 30.9   | 28.4   | 25.8   | 25.8   | 23.2   | 23.2   | 23.2   | 23.2   | 23.2   |
| 77.5° | 15.5   | 12.9   | 10.3   | 10.3   | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 80°   | 5.2    | 5.2    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 82.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 85°   | 2.6    | 0.0    | 0.0    | 2.6    | 0.0    | 2.6    | 2.6    | 2.6    | 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    |



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TEST NUMBER: P584487

CATALOG NUMBER: HCC8S35D010BZ-HM82555935-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 | 1724.2 |
| 2.5°  | 1690.6 | 1690.6 | 1688.1 | 1690.6 | 1685.5 | 1688.1 | 1685.5 | 1685.5 |
| 5°    | 1651.9 | 1646.8 | 1646.8 | 1646.8 | 1644.3 | 1644.3 | 1641.6 | 1641.6 |
| 7.5°  | 1605.6 | 1603.0 | 1600.4 | 1597.9 | 1595.3 | 1592.7 | 1592.7 | 1592.7 |
| 10°   | 1559.2 | 1554.0 | 1554.0 | 1551.4 | 1546.3 | 1543.7 | 1543.7 | 1543.7 |
| 12.5° | 1505.0 | 1502.5 | 1499.9 | 1499.9 | 1489.6 | 1492.2 | 1489.6 | 1489.6 |
| 15°   | 1453.5 | 1450.9 | 1450.9 | 1443.2 | 1438.1 | 1438.1 | 1438.1 | 1435.4 |
| 17.5° | 1399.4 | 1396.9 | 1394.2 | 1389.1 | 1383.9 | 1383.9 | 1381.4 | 1383.9 |
| 20°   | 1342.7 | 1340.1 | 1334.9 | 1334.9 | 1332.4 | 1329.8 | 1324.6 | 1327.3 |
| 22.5° | 1286.1 | 1280.9 | 1278.3 | 1278.3 | 1275.8 | 1275.8 | 1270.6 | 1270.6 |
| 25°   | 1226.8 | 1224.1 | 1221.6 | 1224.1 | 1219.0 | 1219.0 | 1213.8 | 1213.8 |
| 27.5° | 1164.9 | 1162.3 | 1162.3 | 1162.3 | 1159.8 | 1162.3 | 1159.8 | 1159.8 |
| 30°   | 1103.0 | 1103.0 | 1100.5 | 1100.5 | 1103.0 | 1100.5 | 1103.0 | 1105.6 |
| 32.5° | 1036.0 | 1036.0 | 1038.5 | 1038.5 | 1041.2 | 1041.2 | 1041.2 | 1041.2 |
| 35°   | 966.4  | 971.6  | 971.6  | 974.2  | 976.7  | 979.4  | 979.4  | 981.9  |
| 37.5° | 902.0  | 904.6  | 907.1  | 909.8  | 914.9  | 914.9  | 914.9  | 914.9  |
| 40°   | 832.5  | 835.0  | 840.2  | 837.6  | 847.9  | 850.5  | 847.9  | 847.9  |
| 42.5° | 760.3  | 765.4  | 768.0  | 773.2  | 775.7  | 780.9  | 783.5  | 783.5  |
| 45°   | 693.3  | 695.8  | 700.9  | 706.1  | 708.7  | 716.4  | 716.4  | 716.4  |
| 47.5° | 623.7  | 628.8  | 631.5  | 636.6  | 639.1  | 646.9  | 649.4  | 646.9  |
| 50°   | 556.7  | 561.9  | 567.0  | 567.0  | 574.7  | 577.3  | 582.5  | 585.0  |
| 52.5° | 492.3  | 494.8  | 499.9  | 502.6  | 507.7  | 512.9  | 515.4  | 518.0  |
| 55°   | 430.4  | 433.0  | 438.1  | 438.1  | 445.9  | 448.4  | 453.6  | 453.6  |
| 57.5° | 373.7  | 376.3  | 381.4  | 378.8  | 384.0  | 389.1  | 389.1  | 386.6  |
| 60°   | 319.6  | 319.6  | 319.6  | 324.8  | 327.3  | 329.9  | 332.4  | 332.4  |
| 62.5° | 262.8  | 268.0  | 270.6  | 270.6  | 273.1  | 275.8  | 275.8  | 273.1  |
| 65°   | 211.3  | 216.5  | 219.1  | 219.1  | 221.6  | 221.6  | 221.6  | 224.3  |
| 67.5° | 159.8  | 159.8  | 159.8  | 162.3  | 159.8  | 159.8  | 159.8  | 159.8  |
| 70°   | 100.5  | 100.5  | 100.5  | 100.5  | 97.9   | 100.5  | 100.5  | 103.0  |
| 72.5° | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   |
| 75°   | 23.2   | 23.2   | 23.2   | 25.8   | 23.2   | 23.2   | 23.2   | 23.2   |
| 77.5° | 10.3   | 7.8    | 10.3   | 10.3   | 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° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 85°   | 0.0    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



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(END OF REPORT)