

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: P593667

Luminaire Tested: **HCC8S30D010BZ-HM82555850-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S30D010BZ-HM82555850-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

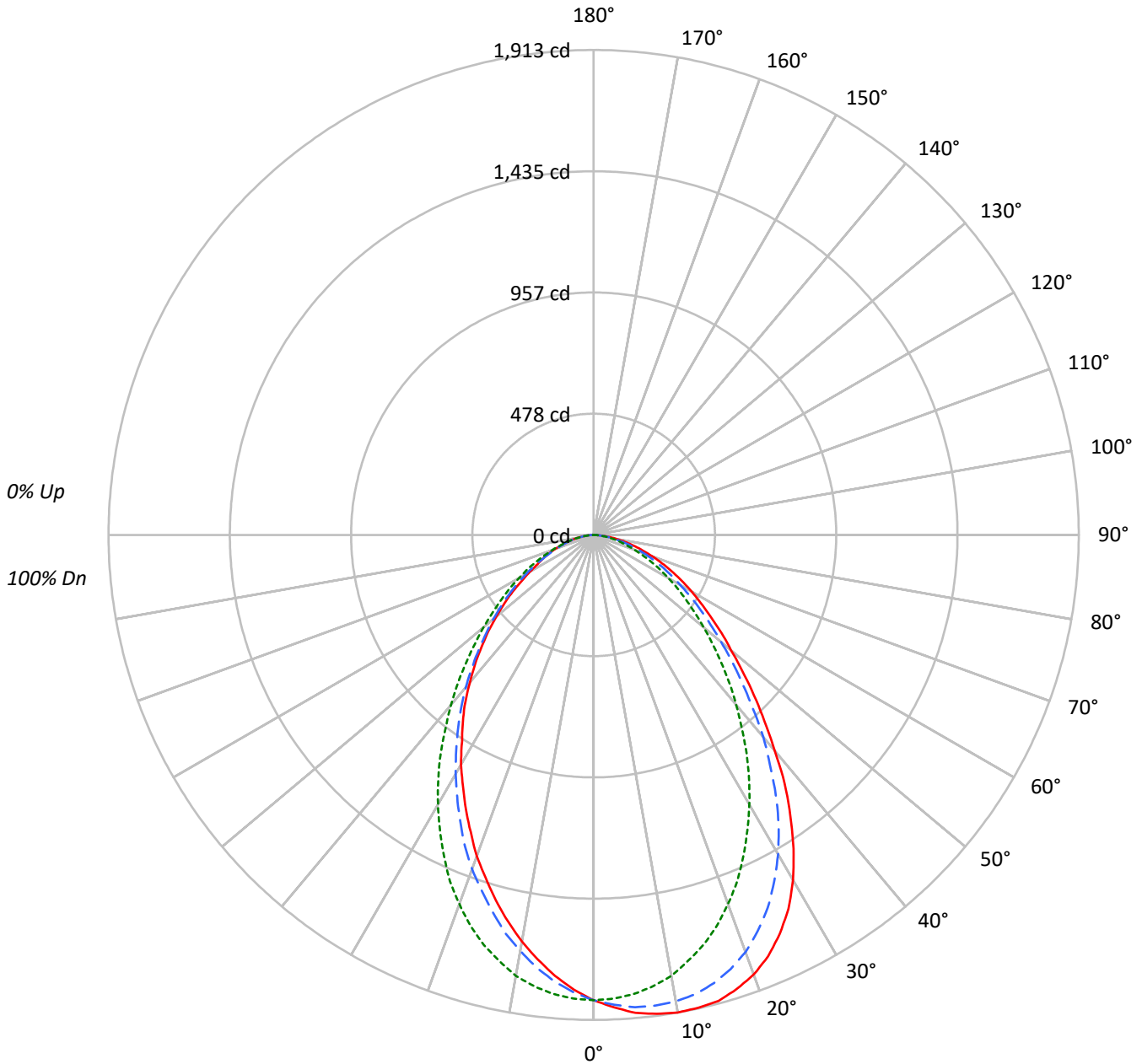
Lumens per Lamp: N/A  
Luminaire Lumens: 3387.6 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 59  | 54  | 63  | 57  | 53  | 51  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 41  |    |    |    |  |  |  |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 56603 | 56603 | 56603 |
| 5°  | 58593 | 56278 | 54043 |
| 10° | 59890 | 55291 | 51001 |
| 15° | 60745 | 53428 | 47624 |
| 20° | 60564 | 50834 | 44215 |
| 25° | 59062 | 47538 | 40591 |
| 30° | 55956 | 43721 | 37248 |
| 35° | 50910 | 39568 | 33846 |
| 40° | 44714 | 35190 | 30581 |
| 45° | 38991 | 30954 | 27264 |
| 50° | 33931 | 27124 | 24015 |
| 55° | 30262 | 23838 | 20892 |
| 60° | 27494 | 20889 | 17817 |
| 65° | 24713 | 18176 | 16169 |
| 70° | 22008 | 15489 | 14597 |
| 75° | 19289 | 13058 | 12462 |
| 80° | 16355 | 10619 | 11063 |
| 85° | 12312 | 7961  | 8810  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.9  | 5.1       |
| 10°-20°   | 473.7  | 14.0      |
| 20°-30°   | 657.6  | 19.4      |
| 30°-40°   | 679.8  | 20.1      |
| 40°-50°   | 569.2  | 16.8      |
| 50°-60°   | 413.2  | 12.2      |
| 60°-70°   | 260.8  | 7.7       |
| 70°-80°   | 129.2  | 3.8       |
| 80°-90°   | 32.1   | 0.9       |
| 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°    | 1303.2 | 38.5      |
| 0°-40°    | 1983.0 | 58.5      |
| 0°-60°    | 2965.5 | 87.5      |
| 0°-90°    | 3387.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3387.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1836 | 1836 | 1836 | 1836 | 1836 |      |
| 5°  | 1893 | 1870 | 1818 | 1768 | 1746 | 181  |
| 15° | 1903 | 1831 | 1674 | 1539 | 1492 | 536  |
| 25° | 1736 | 1624 | 1397 | 1245 | 1193 | 795  |
| 35° | 1352 | 1253 | 1051 | 932  | 899  | 842  |
| 45° | 894  | 829  | 710  | 640  | 625  | 692  |
| 55° | 563  | 513  | 443  | 406  | 389  | 508  |
| 65° | 339  | 296  | 249  | 219  | 222  | 338  |
| 75° | 162  | 134  | 110  | 105  | 105  | 174  |
| 85° | 35   | 27   | 22   | 25   | 25   | 42   |
| 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°    | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 |
| 2.5°  | 1865.4 | 1865.4 | 1867.9 | 1865.4 | 1865.4 | 1865.4 | 1862.9 | 1862.9 | 1860.4 | 1860.4 | 1855.4 |
| 5°    | 1892.9 | 1887.9 | 1892.9 | 1887.9 | 1887.9 | 1887.9 | 1885.4 | 1880.4 | 1877.9 | 1872.9 | 1870.4 |
| 7.5°  | 1905.3 | 1902.8 | 1902.8 | 1900.3 | 1900.3 | 1897.8 | 1895.4 | 1892.9 | 1882.9 | 1880.4 | 1872.9 |
| 10°   | 1912.7 | 1910.2 | 1910.2 | 1907.8 | 1902.8 | 1902.8 | 1897.8 | 1895.4 | 1882.9 | 1877.9 | 1867.9 |
| 12.5° | 1910.2 | 1910.2 | 1910.2 | 1907.8 | 1900.3 | 1897.8 | 1892.9 | 1885.4 | 1875.4 | 1865.4 | 1855.4 |
| 15°   | 1902.8 | 1902.8 | 1897.8 | 1895.4 | 1887.9 | 1882.9 | 1880.4 | 1867.9 | 1857.9 | 1845.6 | 1830.6 |
| 17.5° | 1877.9 | 1877.9 | 1875.4 | 1870.4 | 1862.9 | 1857.9 | 1852.9 | 1840.6 | 1830.6 | 1810.6 | 1795.7 |
| 20°   | 1845.6 | 1843.1 | 1840.6 | 1833.1 | 1825.6 | 1823.1 | 1815.6 | 1798.2 | 1785.8 | 1770.8 | 1750.9 |
| 22.5° | 1798.2 | 1795.7 | 1793.2 | 1788.3 | 1775.8 | 1770.8 | 1765.8 | 1753.4 | 1730.9 | 1716.0 | 1691.1 |
| 25°   | 1735.9 | 1735.9 | 1730.9 | 1723.5 | 1711.0 | 1706.1 | 1698.6 | 1686.1 | 1666.1 | 1643.8 | 1623.8 |
| 27.5° | 1663.6 | 1661.3 | 1653.8 | 1648.8 | 1638.8 | 1631.3 | 1618.8 | 1604.0 | 1584.0 | 1566.6 | 1541.7 |
| 30°   | 1571.5 | 1571.5 | 1566.6 | 1559.1 | 1546.7 | 1541.7 | 1531.7 | 1514.3 | 1494.3 | 1472.0 | 1454.5 |
| 32.5° | 1467.0 | 1467.0 | 1459.5 | 1454.5 | 1447.0 | 1434.5 | 1432.0 | 1412.2 | 1394.7 | 1377.3 | 1357.4 |
| 35°   | 1352.4 | 1354.9 | 1349.9 | 1339.9 | 1327.5 | 1327.5 | 1322.5 | 1305.0 | 1285.2 | 1267.7 | 1252.7 |
| 37.5° | 1237.9 | 1230.4 | 1227.9 | 1222.9 | 1215.4 | 1205.4 | 1200.4 | 1193.0 | 1175.6 | 1163.1 | 1140.7 |
| 40°   | 1110.8 | 1113.3 | 1108.3 | 1103.3 | 1100.8 | 1093.4 | 1090.9 | 1078.4 | 1065.9 | 1051.1 | 1041.1 |
| 42.5° | 996.3  | 996.3  | 996.3  | 991.3  | 986.3  | 978.8  | 976.3  | 968.8  | 953.9  | 943.9  | 929.0  |
| 45°   | 894.1  | 886.6  | 886.6  | 884.1  | 881.6  | 876.6  | 869.2  | 864.3  | 854.3  | 846.8  | 829.3  |
| 47.5° | 794.5  | 797.0  | 794.5  | 792.0  | 784.5  | 782.0  | 779.5  | 769.6  | 759.7  | 752.2  | 739.7  |
| 50°   | 707.3  | 712.3  | 707.3  | 707.3  | 702.3  | 699.8  | 694.9  | 687.4  | 679.9  | 667.5  | 655.0  |
| 52.5° | 635.0  | 635.0  | 632.5  | 630.2  | 622.7  | 617.7  | 615.2  | 612.7  | 600.2  | 590.2  | 580.4  |
| 55°   | 562.9  | 565.4  | 565.4  | 557.9  | 555.4  | 550.4  | 547.9  | 540.4  | 535.5  | 520.5  | 513.1  |
| 57.5° | 500.6  | 498.1  | 500.6  | 495.6  | 490.7  | 485.7  | 483.2  | 478.2  | 470.7  | 460.7  | 450.7  |
| 60°   | 445.8  | 440.9  | 440.9  | 438.4  | 433.4  | 430.9  | 425.9  | 418.4  | 410.9  | 400.9  | 393.6  |
| 62.5° | 391.1  | 388.6  | 386.1  | 383.6  | 378.6  | 376.1  | 373.6  | 366.1  | 358.6  | 351.1  | 343.7  |
| 65°   | 338.7  | 338.7  | 336.2  | 331.3  | 328.8  | 326.3  | 323.8  | 318.8  | 308.8  | 303.9  | 296.4  |
| 67.5° | 291.4  | 288.9  | 288.9  | 283.9  | 278.9  | 276.4  | 276.4  | 271.4  | 264.0  | 256.6  | 251.6  |
| 70°   | 244.1  | 246.6  | 244.1  | 241.6  | 236.6  | 236.6  | 231.6  | 229.1  | 219.1  | 216.6  | 209.3  |
| 72.5° | 201.8  | 201.8  | 199.3  | 199.3  | 194.3  | 191.8  | 191.8  | 186.8  | 181.8  | 176.8  | 171.8  |
| 75°   | 161.9  | 161.9  | 161.9  | 159.4  | 156.9  | 152.0  | 152.0  | 149.5  | 144.5  | 139.5  | 134.5  |
| 77.5° | 127.0  | 124.5  | 124.5  | 122.0  | 119.5  | 117.0  | 117.0  | 114.6  | 109.6  | 107.1  | 102.1  |
| 80°   | 92.1   | 89.7   | 89.7   | 89.7   | 84.7   | 87.2   | 84.7   | 82.2   | 79.7   | 77.2   | 74.7   |
| 82.5° | 59.8   | 62.3   | 62.3   | 59.8   | 57.3   | 57.3   | 57.3   | 54.8   | 54.8   | 52.3   | 49.8   |
| 85°   | 34.8   | 34.8   | 34.8   | 34.8   | 32.3   | 32.3   | 32.3   | 29.8   | 29.8   | 29.8   | 27.3   |
| 87.5° | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 |
| 2.5°  | 1855.4 | 1850.4 | 1848.1 | 1845.6 | 1845.6 | 1843.1 | 1840.6 | 1835.6 | 1835.6 | 1830.6 | 1828.1 |
| 5°    | 1865.4 | 1857.9 | 1852.9 | 1848.1 | 1845.6 | 1840.6 | 1835.6 | 1828.1 | 1825.6 | 1818.1 | 1810.6 |
| 7.5°  | 1867.9 | 1855.4 | 1850.4 | 1840.6 | 1835.6 | 1830.6 | 1820.6 | 1813.1 | 1803.1 | 1795.7 | 1785.8 |
| 10°   | 1857.9 | 1848.1 | 1835.6 | 1823.1 | 1820.6 | 1813.1 | 1798.2 | 1788.3 | 1775.8 | 1765.8 | 1750.9 |
| 12.5° | 1843.1 | 1828.1 | 1815.6 | 1800.7 | 1793.2 | 1785.8 | 1770.8 | 1755.8 | 1738.4 | 1721.0 | 1706.1 |
| 15°   | 1818.1 | 1800.7 | 1783.3 | 1765.8 | 1755.8 | 1748.4 | 1730.9 | 1713.5 | 1696.1 | 1673.6 | 1658.8 |
| 17.5° | 1780.8 | 1760.8 | 1743.4 | 1721.0 | 1711.0 | 1703.6 | 1681.1 | 1661.3 | 1638.8 | 1616.3 | 1601.5 |
| 20°   | 1733.4 | 1708.6 | 1688.6 | 1663.6 | 1656.3 | 1643.8 | 1621.3 | 1599.0 | 1574.0 | 1549.1 | 1531.7 |
| 22.5° | 1671.1 | 1646.3 | 1623.8 | 1599.0 | 1586.5 | 1574.0 | 1551.6 | 1524.2 | 1499.3 | 1479.4 | 1462.0 |
| 25°   | 1599.0 | 1576.5 | 1549.1 | 1526.7 | 1511.8 | 1496.8 | 1472.0 | 1449.5 | 1427.2 | 1397.2 | 1379.8 |
| 27.5° | 1519.3 | 1491.8 | 1472.0 | 1442.0 | 1427.2 | 1417.2 | 1389.7 | 1359.9 | 1339.9 | 1312.5 | 1292.6 |
| 30°   | 1429.5 | 1404.7 | 1382.2 | 1352.4 | 1337.4 | 1327.5 | 1302.5 | 1275.2 | 1255.2 | 1227.9 | 1207.9 |
| 32.5° | 1334.9 | 1307.5 | 1280.2 | 1260.2 | 1242.7 | 1232.9 | 1205.4 | 1188.0 | 1163.1 | 1140.7 | 1118.3 |
| 35°   | 1232.9 | 1205.4 | 1185.6 | 1158.1 | 1148.1 | 1138.2 | 1115.8 | 1093.4 | 1070.9 | 1051.1 | 1033.6 |
| 37.5° | 1123.2 | 1103.3 | 1080.9 | 1060.9 | 1053.5 | 1043.6 | 1016.1 | 996.3  | 978.8  | 958.9  | 943.9  |
| 40°   | 1016.1 | 998.8  | 983.8  | 963.8  | 951.4  | 943.9  | 924.0  | 906.6  | 886.6  | 874.2  | 859.3  |
| 42.5° | 919.0  | 899.1  | 884.1  | 869.2  | 856.8  | 849.3  | 831.8  | 819.3  | 804.5  | 792.0  | 774.5  |
| 45°   | 817.0  | 807.0  | 789.5  | 777.0  | 769.6  | 759.7  | 747.2  | 732.2  | 719.8  | 709.8  | 697.3  |
| 47.5° | 727.2  | 717.3  | 704.8  | 689.9  | 684.9  | 677.5  | 665.0  | 655.0  | 645.0  | 635.0  | 622.7  |
| 50°   | 645.0  | 632.5  | 622.7  | 612.7  | 607.7  | 600.2  | 587.7  | 582.8  | 575.4  | 565.4  | 557.9  |
| 52.5° | 570.4  | 560.4  | 550.4  | 538.0  | 535.5  | 530.5  | 523.0  | 513.1  | 505.6  | 500.6  | 495.6  |
| 55°   | 503.1  | 493.1  | 485.7  | 475.7  | 473.2  | 468.2  | 458.2  | 453.2  | 448.3  | 443.4  | 438.4  |
| 57.5° | 443.4  | 433.4  | 423.4  | 418.4  | 413.4  | 408.4  | 405.9  | 398.4  | 393.6  | 391.1  | 386.1  |
| 60°   | 388.6  | 378.6  | 371.1  | 363.6  | 361.1  | 358.6  | 353.6  | 348.7  | 343.7  | 338.7  | 336.2  |
| 62.5° | 336.2  | 326.3  | 321.3  | 316.3  | 311.3  | 311.3  | 306.3  | 301.4  | 296.4  | 293.9  | 288.9  |
| 65°   | 288.9  | 283.9  | 276.4  | 269.0  | 266.5  | 266.5  | 259.0  | 256.6  | 254.1  | 249.1  | 244.1  |
| 67.5° | 244.1  | 239.1  | 231.6  | 229.1  | 226.6  | 224.1  | 221.6  | 216.6  | 211.6  | 209.3  | 204.3  |
| 70°   | 204.3  | 199.3  | 194.3  | 191.8  | 189.3  | 186.8  | 181.8  | 179.3  | 174.3  | 171.8  | 169.3  |
| 72.5° | 164.3  | 161.9  | 156.9  | 154.5  | 152.0  | 149.5  | 147.0  | 144.5  | 139.5  | 137.0  | 134.5  |
| 75°   | 132.0  | 129.5  | 124.5  | 122.0  | 119.5  | 119.5  | 117.0  | 112.1  | 109.6  | 109.6  | 107.1  |
| 77.5° | 99.6   | 97.1   | 94.6   | 92.1   | 89.7   | 89.7   | 87.2   | 84.7   | 82.2   | 82.2   | 79.7   |
| 80°   | 72.2   | 69.8   | 67.3   | 67.3   | 67.3   | 64.8   | 62.3   | 62.3   | 59.8   | 59.8   | 57.3   |
| 82.5° | 47.3   | 47.3   | 44.8   | 44.8   | 44.8   | 42.3   | 42.3   | 39.8   | 39.8   | 39.8   | 39.8   |
| 85°   | 27.3   | 27.3   | 27.3   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 22.5   | 24.9   |
| 87.5° | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 10.0   | 10.0   | 10.0   |
| 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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CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 |
| 2.5°  | 1825.6 | 1823.1 | 1818.1 | 1818.1 | 1813.1 | 1813.1 | 1810.6 | 1808.1 | 1805.6 | 1803.1 | 1800.7 |
| 5°    | 1808.1 | 1798.2 | 1793.2 | 1790.8 | 1785.8 | 1783.3 | 1775.8 | 1770.8 | 1768.3 | 1763.3 | 1758.3 |
| 7.5°  | 1775.8 | 1765.8 | 1755.8 | 1753.4 | 1750.9 | 1740.9 | 1733.4 | 1726.0 | 1721.0 | 1716.0 | 1711.0 |
| 10°   | 1738.4 | 1728.4 | 1716.0 | 1711.0 | 1706.1 | 1693.6 | 1683.6 | 1676.1 | 1666.1 | 1656.3 | 1653.8 |
| 12.5° | 1693.6 | 1678.6 | 1663.6 | 1658.8 | 1651.3 | 1638.8 | 1628.8 | 1616.3 | 1609.0 | 1596.5 | 1594.0 |
| 15°   | 1641.3 | 1623.8 | 1611.5 | 1599.0 | 1594.0 | 1581.5 | 1564.1 | 1554.1 | 1539.2 | 1534.2 | 1521.7 |
| 17.5° | 1579.0 | 1561.6 | 1544.2 | 1539.2 | 1531.7 | 1514.3 | 1496.8 | 1484.3 | 1469.5 | 1462.0 | 1454.5 |
| 20°   | 1514.3 | 1491.8 | 1474.5 | 1469.5 | 1459.5 | 1444.5 | 1427.2 | 1414.7 | 1402.2 | 1387.2 | 1379.8 |
| 22.5° | 1439.5 | 1414.7 | 1399.7 | 1387.2 | 1384.7 | 1367.4 | 1347.4 | 1337.4 | 1327.5 | 1315.0 | 1305.0 |
| 25°   | 1357.4 | 1334.9 | 1317.5 | 1307.5 | 1302.5 | 1287.6 | 1272.7 | 1260.2 | 1245.2 | 1237.9 | 1225.4 |
| 27.5° | 1272.7 | 1257.7 | 1235.4 | 1225.4 | 1217.9 | 1205.4 | 1188.0 | 1180.6 | 1165.6 | 1155.6 | 1148.1 |
| 30°   | 1190.5 | 1168.1 | 1155.6 | 1143.2 | 1135.7 | 1123.2 | 1108.3 | 1100.8 | 1088.4 | 1078.4 | 1070.9 |
| 32.5° | 1100.8 | 1085.9 | 1068.4 | 1063.4 | 1053.5 | 1041.1 | 1031.1 | 1018.6 | 1008.6 | 998.8  | 996.3  |
| 35°   | 1018.6 | 998.8  | 981.3  | 976.3  | 968.8  | 956.4  | 951.4  | 943.9  | 931.5  | 929.0  | 919.0  |
| 37.5° | 929.0  | 919.0  | 899.1  | 891.6  | 889.1  | 879.1  | 869.2  | 864.3  | 856.8  | 849.3  | 846.8  |
| 40°   | 844.3  | 831.8  | 821.8  | 814.5  | 809.5  | 802.0  | 792.0  | 789.5  | 784.5  | 774.5  | 772.1  |
| 42.5° | 764.6  | 752.2  | 742.2  | 739.7  | 732.2  | 724.8  | 719.8  | 712.3  | 709.8  | 707.3  | 702.3  |
| 45°   | 687.4  | 679.9  | 670.0  | 667.5  | 665.0  | 655.0  | 650.0  | 645.0  | 640.0  | 637.5  | 632.5  |
| 47.5° | 617.7  | 610.2  | 602.7  | 600.2  | 595.2  | 592.7  | 585.2  | 582.8  | 575.4  | 572.9  | 570.4  |
| 50°   | 550.4  | 545.4  | 540.4  | 538.0  | 533.0  | 530.5  | 525.5  | 520.5  | 515.6  | 513.1  | 510.6  |
| 52.5° | 490.7  | 485.7  | 480.7  | 478.2  | 475.7  | 470.7  | 465.7  | 460.7  | 458.2  | 455.7  | 453.2  |
| 55°   | 433.4  | 428.4  | 425.9  | 423.4  | 420.9  | 418.4  | 410.9  | 408.4  | 405.9  | 403.4  | 398.4  |
| 57.5° | 381.1  | 376.1  | 371.1  | 371.1  | 368.6  | 366.1  | 361.1  | 356.1  | 356.1  | 351.1  | 346.2  |
| 60°   | 333.8  | 328.8  | 323.8  | 321.3  | 318.8  | 313.8  | 311.3  | 308.8  | 306.3  | 303.9  | 298.9  |
| 62.5° | 283.9  | 281.4  | 276.4  | 276.4  | 271.4  | 269.0  | 266.5  | 264.0  | 261.5  | 256.6  | 254.1  |
| 65°   | 241.6  | 239.1  | 234.1  | 231.6  | 231.6  | 229.1  | 224.1  | 221.6  | 219.1  | 219.1  | 216.6  |
| 67.5° | 201.8  | 199.3  | 194.3  | 191.8  | 191.8  | 189.3  | 186.8  | 186.8  | 184.3  | 181.8  | 184.3  |
| 70°   | 166.8  | 161.9  | 161.9  | 159.4  | 159.4  | 156.9  | 154.5  | 154.5  | 154.5  | 156.9  | 156.9  |
| 72.5° | 132.0  | 129.5  | 127.0  | 127.0  | 127.0  | 127.0  | 124.5  | 124.5  | 127.0  | 129.5  | 129.5  |
| 75°   | 104.6  | 102.1  | 102.1  | 102.1  | 99.6   | 99.6   | 102.1  | 102.1  | 104.6  | 104.6  | 104.6  |
| 77.5° | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 79.7   | 79.7   | 82.2   | 82.2   | 82.2   |
| 80°   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 62.3   |
| 82.5° | 39.8   | 39.8   | 39.8   | 39.8   | 39.8   | 39.8   | 39.8   | 42.3   | 42.3   | 42.3   | 42.3   |
| 85°   | 22.5   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   |
| 87.5° | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   |
| 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: P593667

CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 | 1835.6 |
| 2.5°  | 1798.2 | 1798.2 | 1798.2 | 1800.7 | 1795.7 | 1795.7 | 1795.7 | 1795.7 |
| 5°    | 1755.8 | 1753.4 | 1750.9 | 1753.4 | 1748.4 | 1748.4 | 1745.9 | 1745.9 |
| 7.5°  | 1703.6 | 1701.1 | 1698.6 | 1698.6 | 1693.6 | 1693.6 | 1691.1 | 1688.6 |
| 10°   | 1646.3 | 1641.3 | 1643.8 | 1638.8 | 1636.3 | 1633.8 | 1631.3 | 1628.8 |
| 12.5° | 1584.0 | 1579.0 | 1576.5 | 1571.5 | 1566.6 | 1564.1 | 1566.6 | 1561.6 |
| 15°   | 1516.8 | 1509.3 | 1506.8 | 1501.8 | 1496.8 | 1494.3 | 1494.3 | 1491.8 |
| 17.5° | 1442.0 | 1437.0 | 1434.5 | 1429.5 | 1427.2 | 1422.2 | 1419.7 | 1417.2 |
| 20°   | 1372.3 | 1359.9 | 1362.4 | 1357.4 | 1354.9 | 1344.9 | 1344.9 | 1347.4 |
| 22.5° | 1295.1 | 1287.6 | 1282.7 | 1277.7 | 1275.2 | 1270.2 | 1270.2 | 1267.7 |
| 25°   | 1217.9 | 1210.4 | 1207.9 | 1202.9 | 1200.4 | 1195.4 | 1193.0 | 1193.0 |
| 27.5° | 1143.2 | 1133.2 | 1133.2 | 1128.2 | 1123.2 | 1120.8 | 1118.3 | 1115.8 |
| 30°   | 1063.4 | 1056.0 | 1053.5 | 1053.5 | 1051.1 | 1051.1 | 1043.6 | 1046.1 |
| 32.5° | 988.8  | 983.8  | 981.3  | 976.3  | 976.3  | 973.8  | 973.8  | 966.3  |
| 35°   | 914.0  | 906.6  | 909.1  | 904.1  | 901.6  | 899.1  | 901.6  | 899.1  |
| 37.5° | 841.8  | 836.8  | 836.8  | 831.8  | 831.8  | 829.3  | 826.8  | 831.8  |
| 40°   | 769.6  | 767.1  | 764.6  | 762.1  | 764.6  | 762.1  | 757.2  | 759.7  |
| 42.5° | 697.3  | 697.3  | 694.9  | 694.9  | 692.4  | 692.4  | 692.4  | 692.4  |
| 45°   | 632.5  | 630.2  | 630.2  | 627.7  | 627.7  | 627.7  | 627.7  | 625.2  |
| 47.5° | 567.9  | 565.4  | 565.4  | 565.4  | 562.9  | 562.9  | 560.4  | 562.9  |
| 50°   | 505.6  | 505.6  | 503.1  | 503.1  | 505.6  | 503.1  | 500.6  | 500.6  |
| 52.5° | 448.3  | 448.3  | 445.8  | 445.8  | 443.4  | 440.9  | 443.4  | 443.4  |
| 55°   | 396.1  | 393.6  | 391.1  | 391.1  | 388.6  | 386.1  | 386.1  | 388.6  |
| 57.5° | 346.2  | 343.7  | 341.2  | 341.2  | 336.2  | 333.8  | 333.8  | 333.8  |
| 60°   | 298.9  | 293.9  | 293.9  | 291.4  | 291.4  | 288.9  | 288.9  | 288.9  |
| 62.5° | 254.1  | 251.6  | 251.6  | 251.6  | 251.6  | 249.1  | 249.1  | 249.1  |
| 65°   | 216.6  | 216.6  | 216.6  | 219.1  | 219.1  | 221.6  | 221.6  | 221.6  |
| 67.5° | 186.8  | 189.3  | 189.3  | 189.3  | 191.8  | 191.8  | 191.8  | 189.3  |
| 70°   | 159.4  | 159.4  | 159.4  | 161.9  | 161.9  | 161.9  | 161.9  | 161.9  |
| 72.5° | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  | 132.0  |
| 75°   | 104.6  | 107.1  | 107.1  | 107.1  | 104.6  | 107.1  | 107.1  | 104.6  |
| 77.5° | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   |
| 80°   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   |
| 82.5° | 42.3   | 42.3   | 42.3   | 42.3   | 42.3   | 42.3   | 42.3   | 42.3   |
| 85°   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   |
| 87.5° | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



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

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