

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: P584589

Luminaire Tested: **HCC8W40D010BZ-HM82555927-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584589  
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: HCC8W40D010BZ-HM82555927-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

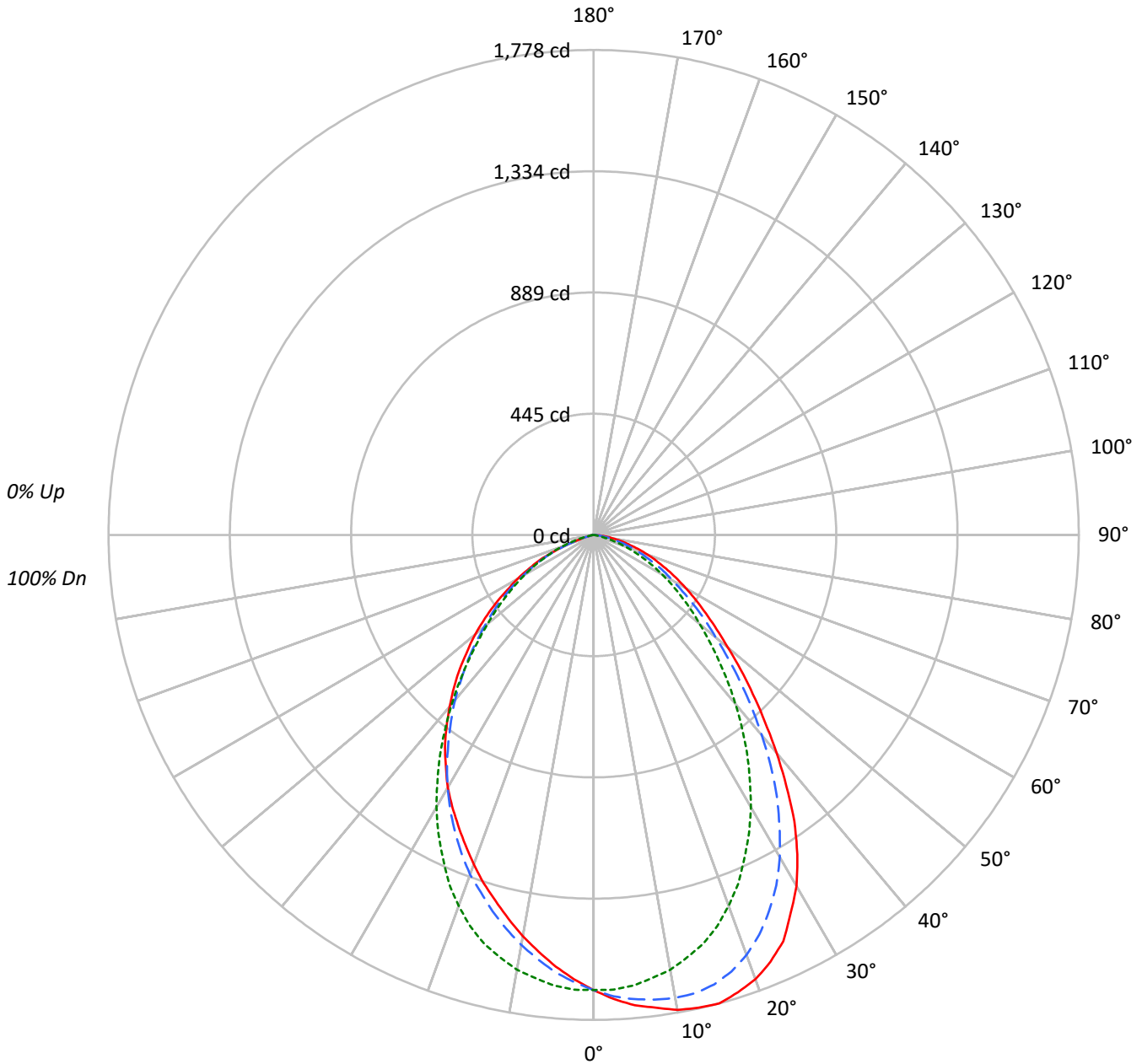
Lumens per Lamp: N/A  
Luminaire Lumens: 3108.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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



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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°  | 51453 | 51453 | 51453 |
| 5°  | 53578 | 51340 | 49180 |
| 10° | 55369 | 50682 | 46777 |
| 15° | 56771 | 49524 | 44349 |
| 20° | 56882 | 47471 | 42151 |
| 25° | 55922 | 44466 | 39972 |
| 30° | 52929 | 41030 | 38096 |
| 35° | 48260 | 36899 | 35770 |
| 40° | 41969 | 32529 | 33028 |
| 45° | 35999 | 28167 | 30239 |
| 50° | 30746 | 24289 | 27162 |
| 55° | 26951 | 20919 | 23601 |
| 60° | 23997 | 17842 | 19846 |
| 65° | 21291 | 14564 | 15826 |
| 70° | 18897 | 10792 | 8989  |
| 75° | 15751 | 5647  | 2681  |
| 80° | 12413 | 1776  | 444   |
| 85° | 8845  | 885   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.2  | 5.1       |
| 10°-20°   | 440.7  | 14.2      |
| 20°-30°   | 623.7  | 20.1      |
| 30°-40°   | 652.5  | 21.0      |
| 40°-50°   | 544.3  | 17.5      |
| 50°-60°   | 385.9  | 12.4      |
| 60°-70°   | 222.3  | 7.2       |
| 70°-80°   | 71.5   | 2.3       |
| 80°-90°   | 9.9    | 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°    | 1221.6 | 39.3      |
| 0°-40°    | 1874.1 | 60.3      |
| 0°-60°    | 2804.3 | 90.2      |
| 0°-90°    | 3108.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3108.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1669 | 1669 | 1669 | 1669 | 1669 |      |
| 5°  | 1731 | 1708 | 1659 | 1609 | 1589 | 166  |
| 15° | 1778 | 1706 | 1551 | 1429 | 1389 | 500  |
| 25° | 1644 | 1521 | 1307 | 1202 | 1175 | 750  |
| 35° | 1282 | 1170 | 980  | 928  | 950  | 795  |
| 45° | 826  | 758  | 646  | 653  | 693  | 640  |
| 55° | 501  | 449  | 389  | 409  | 439  | 453  |
| 65° | 292  | 244  | 200  | 200  | 217  | 292  |
| 75° | 132  | 97   | 47   | 22   | 22   | 143  |
| 85° | 25   | 12   | 2    | 0    | 0    | 31   |
| 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°    | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 |
| 2.5°  | 1703.5 | 1701.0 | 1698.5 | 1701.0 | 1698.5 | 1701.0 | 1698.5 | 1698.5 | 1696.0 | 1693.5 | 1693.5 |
| 5°    | 1730.9 | 1728.5 | 1728.5 | 1728.5 | 1726.0 | 1723.5 | 1723.5 | 1721.0 | 1716.0 | 1713.5 | 1708.5 |
| 7.5°  | 1748.3 | 1750.8 | 1750.8 | 1750.8 | 1745.8 | 1745.8 | 1740.9 | 1735.9 | 1730.9 | 1726.0 | 1718.5 |
| 10°   | 1768.3 | 1768.3 | 1765.8 | 1763.3 | 1758.3 | 1755.8 | 1753.3 | 1748.3 | 1740.9 | 1730.9 | 1723.5 |
| 12.5° | 1775.8 | 1775.8 | 1773.3 | 1768.3 | 1765.8 | 1763.3 | 1760.8 | 1753.3 | 1743.4 | 1730.9 | 1721.0 |
| 15°   | 1778.3 | 1773.3 | 1770.8 | 1768.3 | 1763.3 | 1755.8 | 1755.8 | 1745.8 | 1733.4 | 1718.5 | 1706.0 |
| 17.5° | 1758.3 | 1760.8 | 1755.8 | 1750.8 | 1743.4 | 1738.4 | 1730.9 | 1723.5 | 1708.5 | 1691.0 | 1678.5 |
| 20°   | 1733.4 | 1730.9 | 1728.5 | 1721.0 | 1711.0 | 1708.5 | 1701.0 | 1688.5 | 1676.0 | 1656.1 | 1638.6 |
| 22.5° | 1693.5 | 1691.0 | 1686.0 | 1681.0 | 1671.0 | 1666.1 | 1658.6 | 1643.6 | 1626.1 | 1606.3 | 1586.3 |
| 25°   | 1643.6 | 1638.6 | 1631.1 | 1621.1 | 1613.6 | 1608.8 | 1598.8 | 1583.8 | 1563.8 | 1541.4 | 1521.4 |
| 27.5° | 1563.8 | 1571.3 | 1566.3 | 1551.3 | 1543.9 | 1533.9 | 1531.4 | 1511.4 | 1493.9 | 1471.6 | 1449.1 |
| 30°   | 1486.5 | 1486.5 | 1479.1 | 1471.6 | 1459.1 | 1451.6 | 1441.6 | 1426.7 | 1409.2 | 1381.7 | 1364.3 |
| 32.5° | 1389.2 | 1386.7 | 1376.7 | 1374.2 | 1364.3 | 1349.3 | 1346.8 | 1326.8 | 1309.4 | 1289.5 | 1267.0 |
| 35°   | 1282.0 | 1277.0 | 1267.0 | 1259.5 | 1254.5 | 1247.0 | 1239.6 | 1222.1 | 1204.6 | 1184.6 | 1169.8 |
| 37.5° | 1159.8 | 1159.8 | 1157.3 | 1144.8 | 1139.8 | 1134.8 | 1127.3 | 1109.9 | 1099.9 | 1079.9 | 1064.9 |
| 40°   | 1042.6 | 1040.1 | 1032.6 | 1030.1 | 1025.1 | 1017.6 | 1012.6 | 1002.6 | 987.7  | 972.7  | 957.7  |
| 42.5° | 927.8  | 930.3  | 920.3  | 922.8  | 912.8  | 907.9  | 905.4  | 890.4  | 882.9  | 868.0  | 855.5  |
| 45°   | 825.5  | 823.0  | 818.1  | 815.6  | 810.6  | 805.6  | 800.6  | 793.1  | 780.6  | 765.6  | 758.3  |
| 47.5° | 730.8  | 723.3  | 723.3  | 720.8  | 718.3  | 708.3  | 705.8  | 698.3  | 690.9  | 675.9  | 665.9  |
| 50°   | 640.9  | 640.9  | 640.9  | 638.4  | 631.1  | 628.6  | 623.6  | 616.1  | 608.6  | 598.6  | 583.6  |
| 52.5° | 568.7  | 568.7  | 568.7  | 566.2  | 556.2  | 553.7  | 551.2  | 541.2  | 531.2  | 523.7  | 513.8  |
| 55°   | 501.3  | 503.8  | 501.3  | 496.3  | 488.9  | 488.9  | 481.4  | 476.4  | 466.4  | 458.9  | 449.0  |
| 57.5° | 444.0  | 444.0  | 439.0  | 436.5  | 431.5  | 429.0  | 424.0  | 419.0  | 406.5  | 399.0  | 386.6  |
| 60°   | 389.1  | 386.6  | 386.6  | 381.6  | 376.6  | 371.6  | 369.1  | 361.6  | 356.6  | 344.1  | 334.2  |
| 62.5° | 339.2  | 339.2  | 334.2  | 334.2  | 324.3  | 324.3  | 321.8  | 314.3  | 306.8  | 294.3  | 289.3  |
| 65°   | 291.8  | 291.8  | 289.3  | 286.8  | 279.3  | 276.8  | 274.3  | 266.9  | 259.4  | 251.9  | 244.4  |
| 67.5° | 249.4  | 249.4  | 244.4  | 241.9  | 236.9  | 234.4  | 229.4  | 224.4  | 216.9  | 209.6  | 202.1  |
| 70°   | 209.6  | 207.1  | 204.6  | 202.1  | 197.1  | 194.6  | 189.6  | 184.6  | 177.1  | 172.1  | 164.6  |
| 72.5° | 169.6  | 169.6  | 167.1  | 162.1  | 159.6  | 157.1  | 154.6  | 149.7  | 142.2  | 134.7  | 129.7  |
| 75°   | 132.2  | 132.2  | 132.2  | 127.2  | 122.2  | 119.7  | 119.7  | 114.7  | 109.7  | 102.2  | 97.2   |
| 77.5° | 102.2  | 99.7   | 97.2   | 97.2   | 92.2   | 89.8   | 87.3   | 84.8   | 77.4   | 74.9   | 69.9   |
| 80°   | 69.9   | 72.4   | 69.9   | 67.4   | 64.9   | 62.4   | 62.4   | 57.4   | 54.9   | 49.9   | 44.9   |
| 82.5° | 47.4   | 44.9   | 44.9   | 42.4   | 42.4   | 39.9   | 39.9   | 34.9   | 32.4   | 30.0   | 27.5   |
| 85°   | 25.0   | 25.0   | 22.5   | 22.5   | 22.5   | 20.0   | 20.0   | 17.5   | 17.5   | 15.0   | 12.5   |
| 87.5° | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 5.0    | 5.0    | 5.0    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 |
| 2.5°  | 1691.0 | 1686.0 | 1683.5 | 1683.5 | 1681.0 | 1678.5 | 1676.0 | 1673.5 | 1668.6 | 1668.6 | 1663.6 |
| 5°    | 1703.5 | 1698.5 | 1696.0 | 1688.5 | 1683.5 | 1683.5 | 1673.5 | 1671.0 | 1663.6 | 1658.6 | 1653.6 |
| 7.5°  | 1713.5 | 1703.5 | 1696.0 | 1688.5 | 1683.5 | 1678.5 | 1668.6 | 1658.6 | 1648.6 | 1638.6 | 1633.6 |
| 10°   | 1713.5 | 1703.5 | 1691.0 | 1678.5 | 1673.5 | 1668.6 | 1656.1 | 1641.1 | 1628.6 | 1618.6 | 1606.3 |
| 12.5° | 1708.5 | 1693.5 | 1678.5 | 1668.6 | 1658.6 | 1651.1 | 1636.1 | 1621.1 | 1606.3 | 1586.3 | 1576.3 |
| 15°   | 1693.5 | 1673.5 | 1658.6 | 1641.1 | 1633.6 | 1621.1 | 1608.8 | 1586.3 | 1568.8 | 1551.3 | 1538.9 |
| 17.5° | 1663.6 | 1638.6 | 1621.1 | 1603.8 | 1591.3 | 1583.8 | 1563.8 | 1543.9 | 1523.9 | 1503.9 | 1488.9 |
| 20°   | 1618.6 | 1596.3 | 1576.3 | 1553.8 | 1543.9 | 1533.9 | 1508.9 | 1488.9 | 1469.1 | 1446.6 | 1431.6 |
| 22.5° | 1563.8 | 1541.4 | 1513.9 | 1496.4 | 1481.6 | 1469.1 | 1446.6 | 1424.2 | 1404.2 | 1384.2 | 1364.3 |
| 25°   | 1496.4 | 1474.1 | 1449.1 | 1421.7 | 1411.7 | 1399.2 | 1374.2 | 1351.8 | 1329.3 | 1306.9 | 1289.5 |
| 27.5° | 1424.2 | 1394.2 | 1374.2 | 1344.3 | 1334.3 | 1321.9 | 1294.5 | 1269.5 | 1249.5 | 1232.1 | 1212.1 |
| 30°   | 1336.8 | 1314.4 | 1287.0 | 1259.5 | 1249.5 | 1237.1 | 1214.6 | 1192.1 | 1172.3 | 1152.3 | 1132.3 |
| 32.5° | 1242.1 | 1219.6 | 1192.1 | 1172.3 | 1157.3 | 1147.3 | 1124.8 | 1104.9 | 1084.9 | 1064.9 | 1047.6 |
| 35°   | 1142.3 | 1117.4 | 1097.4 | 1077.4 | 1064.9 | 1052.6 | 1030.1 | 1012.6 | 997.7  | 980.2  | 962.7  |
| 37.5° | 1040.1 | 1022.6 | 1002.6 | 980.2  | 967.7  | 957.7  | 940.3  | 920.3  | 907.9  | 892.9  | 880.5  |
| 40°   | 940.3  | 920.3  | 902.9  | 882.9  | 873.0  | 865.5  | 848.0  | 833.0  | 820.5  | 808.1  | 800.6  |
| 42.5° | 838.0  | 820.5  | 803.1  | 790.6  | 783.1  | 775.6  | 763.1  | 745.8  | 738.3  | 725.8  | 718.3  |
| 45°   | 743.3  | 728.3  | 715.8  | 698.3  | 693.4  | 688.4  | 673.4  | 660.9  | 653.4  | 645.9  | 640.9  |
| 47.5° | 653.4  | 643.4  | 628.6  | 618.6  | 611.1  | 606.1  | 596.1  | 586.1  | 578.6  | 573.7  | 568.7  |
| 50°   | 576.2  | 563.7  | 553.7  | 543.7  | 538.7  | 531.2  | 521.2  | 516.2  | 511.3  | 506.3  | 506.3  |
| 52.5° | 503.8  | 491.4  | 481.4  | 473.9  | 468.9  | 463.9  | 456.4  | 454.0  | 449.0  | 449.0  | 446.5  |
| 55°   | 436.5  | 429.0  | 419.0  | 409.0  | 406.5  | 404.0  | 399.0  | 394.1  | 391.6  | 389.1  | 391.6  |
| 57.5° | 379.1  | 371.6  | 361.6  | 354.1  | 351.6  | 349.1  | 346.6  | 341.6  | 339.2  | 339.2  | 339.2  |
| 60°   | 326.8  | 319.3  | 311.8  | 304.3  | 304.3  | 299.3  | 296.8  | 294.3  | 291.8  | 289.3  | 289.3  |
| 62.5° | 279.3  | 271.9  | 264.4  | 259.4  | 256.9  | 254.4  | 249.4  | 246.9  | 244.4  | 244.4  | 241.9  |
| 65°   | 236.9  | 226.9  | 224.4  | 216.9  | 214.4  | 212.1  | 209.6  | 204.6  | 202.1  | 199.6  | 197.1  |
| 67.5° | 194.6  | 189.6  | 182.1  | 177.1  | 174.6  | 172.1  | 169.6  | 164.6  | 162.1  | 159.6  | 154.6  |
| 70°   | 157.1  | 152.1  | 147.2  | 142.2  | 139.7  | 137.2  | 132.2  | 127.2  | 124.7  | 119.7  | 112.2  |
| 72.5° | 122.2  | 117.2  | 112.2  | 107.2  | 104.7  | 102.2  | 97.2   | 92.2   | 87.3   | 82.3   | 77.4   |
| 75°   | 92.2   | 87.3   | 79.8   | 74.9   | 72.4   | 72.4   | 64.9   | 59.9   | 54.9   | 47.4   | 42.4   |
| 77.5° | 64.9   | 57.4   | 54.9   | 49.9   | 47.4   | 42.4   | 37.4   | 32.4   | 27.5   | 25.0   | 20.0   |
| 80°   | 42.4   | 37.4   | 32.4   | 30.0   | 27.5   | 25.0   | 22.5   | 17.5   | 12.5   | 10.0   | 7.5    |
| 82.5° | 25.0   | 22.5   | 20.0   | 17.5   | 15.0   | 12.5   | 10.0   | 10.0   | 7.5    | 5.0    | 2.5    |
| 85°   | 12.5   | 10.0   | 7.5    | 7.5    | 5.0    | 5.0    | 5.0    | 2.5    | 2.5    | 2.5    | 2.5    |
| 87.5° | 5.0    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 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    |



TEST NUMBER: P584589

CATALOG NUMBER: HCC8W40D010BZ-HM82555927-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 |
| 2.5°  | 1661.1 | 1658.6 | 1656.1 | 1653.6 | 1653.6 | 1648.6 | 1648.6 | 1646.1 | 1641.1 | 1638.6 | 1638.6 |
| 5°    | 1646.1 | 1638.6 | 1633.6 | 1631.1 | 1628.6 | 1621.1 | 1618.6 | 1613.6 | 1608.8 | 1603.8 | 1601.3 |
| 7.5°  | 1623.6 | 1611.1 | 1606.3 | 1603.8 | 1596.3 | 1588.8 | 1583.8 | 1576.3 | 1568.8 | 1561.3 | 1558.8 |
| 10°   | 1596.3 | 1583.8 | 1571.3 | 1566.3 | 1558.8 | 1553.8 | 1543.9 | 1533.9 | 1526.4 | 1518.9 | 1511.4 |
| 12.5° | 1561.3 | 1546.4 | 1533.9 | 1528.9 | 1521.4 | 1511.4 | 1496.4 | 1491.4 | 1479.1 | 1474.1 | 1464.1 |
| 15°   | 1521.4 | 1503.9 | 1491.4 | 1484.0 | 1476.6 | 1461.6 | 1451.6 | 1441.6 | 1429.1 | 1424.2 | 1414.2 |
| 17.5° | 1471.6 | 1451.6 | 1439.1 | 1431.6 | 1426.7 | 1414.2 | 1399.2 | 1386.7 | 1374.2 | 1369.2 | 1361.8 |
| 20°   | 1411.7 | 1399.2 | 1381.7 | 1374.2 | 1369.2 | 1354.3 | 1339.3 | 1334.3 | 1324.4 | 1314.4 | 1306.9 |
| 22.5° | 1344.3 | 1331.8 | 1314.4 | 1306.9 | 1304.5 | 1292.0 | 1279.5 | 1272.0 | 1264.5 | 1257.0 | 1249.5 |
| 25°   | 1274.5 | 1259.5 | 1244.6 | 1239.6 | 1234.6 | 1224.6 | 1214.6 | 1209.6 | 1202.1 | 1197.1 | 1192.1 |
| 27.5° | 1199.6 | 1184.6 | 1172.3 | 1164.8 | 1159.8 | 1152.3 | 1147.3 | 1142.3 | 1137.3 | 1132.3 | 1129.8 |
| 30°   | 1119.9 | 1104.9 | 1094.9 | 1089.9 | 1084.9 | 1082.4 | 1074.9 | 1072.4 | 1069.9 | 1064.9 | 1067.4 |
| 32.5° | 1040.1 | 1027.6 | 1017.6 | 1010.1 | 1010.1 | 1005.1 | 1002.6 | 1002.6 | 1000.2 | 1000.2 | 1000.2 |
| 35°   | 952.7  | 945.2  | 937.8  | 935.3  | 932.8  | 930.3  | 927.8  | 930.3  | 927.8  | 930.3  | 932.8  |
| 37.5° | 873.0  | 865.5  | 860.5  | 858.0  | 855.5  | 858.0  | 855.5  | 855.5  | 858.0  | 863.0  | 865.5  |
| 40°   | 790.6  | 785.6  | 780.6  | 783.1  | 780.6  | 780.6  | 780.6  | 788.1  | 790.6  | 793.1  | 795.6  |
| 42.5° | 713.3  | 708.3  | 705.8  | 705.8  | 708.3  | 705.8  | 710.8  | 713.3  | 718.3  | 725.8  | 730.8  |
| 45°   | 638.4  | 636.1  | 636.1  | 638.4  | 636.1  | 640.9  | 640.9  | 645.9  | 653.4  | 658.4  | 663.4  |
| 47.5° | 568.7  | 568.7  | 568.7  | 571.2  | 571.2  | 573.7  | 578.6  | 581.1  | 586.1  | 591.1  | 596.1  |
| 50°   | 503.8  | 506.3  | 508.8  | 508.8  | 508.8  | 513.8  | 518.7  | 521.2  | 523.7  | 526.2  | 533.7  |
| 52.5° | 446.5  | 449.0  | 449.0  | 451.5  | 454.0  | 456.4  | 458.9  | 463.9  | 466.4  | 471.4  | 473.9  |
| 55°   | 391.6  | 391.6  | 396.5  | 399.0  | 399.0  | 399.0  | 404.0  | 404.0  | 409.0  | 411.5  | 416.5  |
| 57.5° | 339.2  | 341.6  | 341.6  | 344.1  | 344.1  | 346.6  | 349.1  | 351.6  | 354.1  | 356.6  | 359.1  |
| 60°   | 289.3  | 289.3  | 289.3  | 291.8  | 294.3  | 296.8  | 294.3  | 299.3  | 299.3  | 304.3  | 306.8  |
| 62.5° | 241.9  | 244.4  | 244.4  | 244.4  | 244.4  | 244.4  | 244.4  | 246.9  | 249.4  | 251.9  | 254.4  |
| 65°   | 197.1  | 197.1  | 197.1  | 194.6  | 197.1  | 194.6  | 197.1  | 199.6  | 199.6  | 202.1  | 204.6  |
| 67.5° | 152.1  | 152.1  | 147.2  | 147.2  | 149.7  | 149.7  | 149.7  | 149.7  | 147.2  | 152.1  | 152.1  |
| 70°   | 109.7  | 107.2  | 104.7  | 102.2  | 102.2  | 99.7   | 99.7   | 97.2   | 97.2   | 97.2   | 97.2   |
| 72.5° | 72.4   | 67.4   | 62.4   | 59.9   | 57.4   | 57.4   | 52.4   | 49.9   | 52.4   | 52.4   | 52.4   |
| 75°   | 37.4   | 32.4   | 30.0   | 27.5   | 25.0   | 25.0   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   |
| 77.5° | 15.0   | 12.5   | 10.0   | 10.0   | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    |
| 80°   | 5.0    | 5.0    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 85°   | 2.5    | 0.0    | 0.0    | 2.5    | 0.0    | 2.5    | 2.5    | 2.5    | 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: P584589

CATALOG NUMBER: HCC8W40D010BZ-HM82555927-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 | 1668.6 |
| 2.5°  | 1636.1 | 1636.1 | 1633.6 | 1636.1 | 1631.1 | 1633.6 | 1631.1 | 1631.1 |
| 5°    | 1598.8 | 1593.8 | 1593.8 | 1593.8 | 1591.3 | 1591.3 | 1588.8 | 1588.8 |
| 7.5°  | 1553.8 | 1551.3 | 1548.8 | 1546.4 | 1543.9 | 1541.4 | 1541.4 | 1541.4 |
| 10°   | 1508.9 | 1503.9 | 1503.9 | 1501.4 | 1496.4 | 1493.9 | 1493.9 | 1493.9 |
| 12.5° | 1456.6 | 1454.1 | 1451.6 | 1451.6 | 1441.6 | 1444.1 | 1441.6 | 1441.6 |
| 15°   | 1406.7 | 1404.2 | 1404.2 | 1396.7 | 1391.7 | 1391.7 | 1391.7 | 1389.2 |
| 17.5° | 1354.3 | 1351.8 | 1349.3 | 1344.3 | 1339.3 | 1339.3 | 1336.8 | 1339.3 |
| 20°   | 1299.5 | 1297.0 | 1292.0 | 1292.0 | 1289.5 | 1287.0 | 1282.0 | 1284.5 |
| 22.5° | 1244.6 | 1239.6 | 1237.1 | 1237.1 | 1234.6 | 1234.6 | 1229.6 | 1229.6 |
| 25°   | 1187.1 | 1184.6 | 1182.3 | 1184.6 | 1179.8 | 1179.8 | 1174.8 | 1174.8 |
| 27.5° | 1127.3 | 1124.8 | 1124.8 | 1124.8 | 1122.4 | 1124.8 | 1122.4 | 1122.4 |
| 30°   | 1067.4 | 1067.4 | 1064.9 | 1064.9 | 1067.4 | 1064.9 | 1067.4 | 1069.9 |
| 32.5° | 1002.6 | 1002.6 | 1005.1 | 1005.1 | 1007.6 | 1007.6 | 1007.6 | 1007.6 |
| 35°   | 935.3  | 940.3  | 940.3  | 942.7  | 945.2  | 947.7  | 947.7  | 950.2  |
| 37.5° | 873.0  | 875.5  | 878.0  | 880.5  | 885.4  | 885.4  | 885.4  | 885.4  |
| 40°   | 805.6  | 808.1  | 813.1  | 810.6  | 820.5  | 823.0  | 820.5  | 820.5  |
| 42.5° | 735.8  | 740.8  | 743.3  | 748.3  | 750.8  | 755.8  | 758.3  | 758.3  |
| 45°   | 670.9  | 673.4  | 678.4  | 683.4  | 685.9  | 693.4  | 693.4  | 693.4  |
| 47.5° | 603.6  | 608.6  | 611.1  | 616.1  | 618.6  | 626.1  | 628.6  | 626.1  |
| 50°   | 538.7  | 543.7  | 548.7  | 548.7  | 556.2  | 558.7  | 563.7  | 566.2  |
| 52.5° | 476.4  | 478.9  | 483.9  | 486.4  | 491.4  | 496.3  | 498.8  | 501.3  |
| 55°   | 416.5  | 419.0  | 424.0  | 424.0  | 431.5  | 434.0  | 439.0  | 439.0  |
| 57.5° | 361.6  | 364.1  | 369.1  | 366.6  | 371.6  | 376.6  | 376.6  | 374.1  |
| 60°   | 309.3  | 309.3  | 309.3  | 314.3  | 316.8  | 319.3  | 321.8  | 321.8  |
| 62.5° | 254.4  | 259.4  | 261.9  | 261.9  | 264.4  | 266.9  | 266.9  | 264.4  |
| 65°   | 204.6  | 209.6  | 212.1  | 212.1  | 214.4  | 214.4  | 214.4  | 216.9  |
| 67.5° | 154.6  | 154.6  | 154.6  | 157.1  | 154.6  | 154.6  | 154.6  | 154.6  |
| 70°   | 97.2   | 97.2   | 97.2   | 97.2   | 94.7   | 97.2   | 97.2   | 99.7   |
| 72.5° | 52.4   | 52.4   | 52.4   | 52.4   | 52.4   | 52.4   | 52.4   | 52.4   |
| 75°   | 22.5   | 22.5   | 22.5   | 25.0   | 22.5   | 22.5   | 22.5   | 22.5   |
| 77.5° | 10.0   | 7.5    | 10.0   | 10.0   | 7.5    | 7.5    | 7.5    | 7.5    |
| 80°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 85°   | 0.0    | 2.5    | 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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



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

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