

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: P593683

Luminaire Tested: **HCC8S30D010SL-HM82555950-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593683  
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: HCC8S30D010SL-HM82555950-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

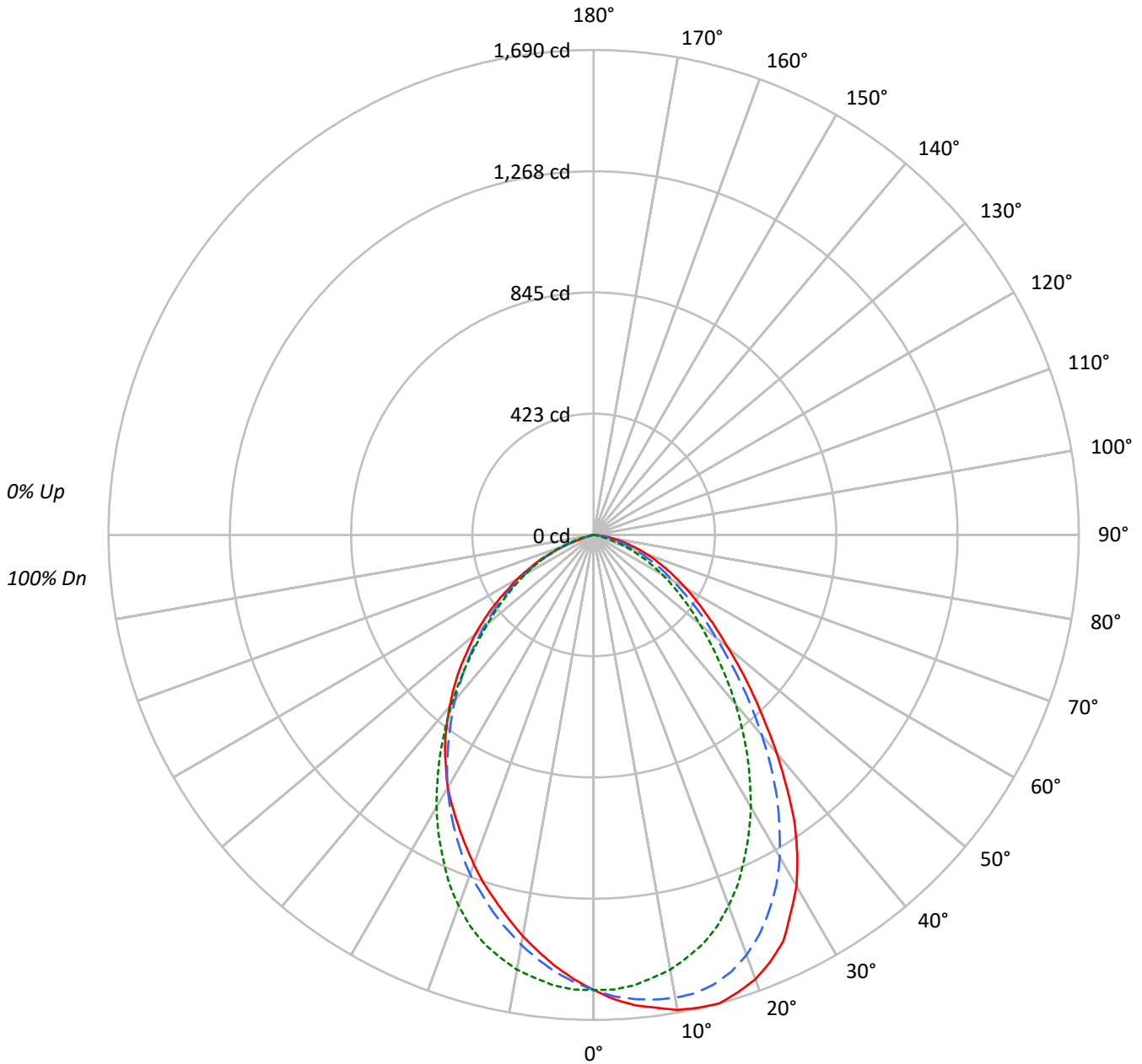
Lumens per Lamp: N/A  
Luminaire Lumens: 2953.9 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |    |    |    |    |    |   |  |   |
| 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 | 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°  | 48900 | 48900 | 48900 |
| 5°  | 50923 | 48796 | 46741 |
| 10° | 52626 | 48170 | 44460 |
| 15° | 53958 | 47069 | 42153 |
| 20° | 54063 | 45115 | 40058 |
| 25° | 53149 | 42261 | 37988 |
| 30° | 50305 | 38996 | 36212 |
| 35° | 45866 | 35069 | 34000 |
| 40° | 39884 | 30915 | 31394 |
| 45° | 34216 | 26776 | 28734 |
| 50° | 29225 | 23085 | 25814 |
| 55° | 25612 | 19881 | 22429 |
| 60° | 22807 | 16960 | 18859 |
| 65° | 20240 | 13834 | 15045 |
| 70° | 17960 | 10260 | 8547  |
| 75° | 14976 | 5373  | 2538  |
| 80° | 11774 | 1687  | 426   |
| 85° | 8385  | 849   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.4  | 5.1       |
| 10°-20°   | 418.8  | 14.2      |
| 20°-30°   | 592.8  | 20.1      |
| 30°-40°   | 620.2  | 21.0      |
| 40°-50°   | 517.3  | 17.5      |
| 50°-60°   | 366.8  | 12.4      |
| 60°-70°   | 211.3  | 7.2       |
| 70°-80°   | 68.0   | 2.3       |
| 80°-90°   | 9.4    | 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°    | 1161.0 | 39.3      |
| 0°-40°    | 1781.2 | 60.3      |
| 0°-60°    | 2665.3 | 90.2      |
| 0°-90°    | 2953.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2953.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1586 | 1586 | 1586 | 1586 | 1586 |      |
| 5°  | 1645 | 1624 | 1576 | 1529 | 1510 | 158  |
| 15° | 1690 | 1621 | 1474 | 1358 | 1320 | 475  |
| 25° | 1562 | 1446 | 1242 | 1142 | 1116 | 713  |
| 35° | 1218 | 1112 | 932  | 882  | 903  | 755  |
| 45° | 785  | 721  | 614  | 621  | 659  | 608  |
| 55° | 476  | 427  | 370  | 389  | 417  | 430  |
| 65° | 277  | 232  | 190  | 190  | 206  | 277  |
| 75° | 126  | 92   | 45   | 21   | 21   | 136  |
| 85° | 24   | 12   | 2    | 0    | 0    | 30   |
| 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°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 |
| 2.5°  | 1619.1 | 1616.7 | 1614.3 | 1616.7 | 1614.3 | 1616.7 | 1614.3 | 1614.3 | 1611.9 | 1609.5 | 1609.5 |
| 5°    | 1645.1 | 1642.7 | 1642.7 | 1642.7 | 1640.3 | 1638.0 | 1638.0 | 1635.6 | 1630.8 | 1628.5 | 1623.7 |
| 7.5°  | 1661.6 | 1664.0 | 1664.0 | 1664.0 | 1659.4 | 1659.4 | 1654.6 | 1649.9 | 1645.1 | 1640.3 | 1633.2 |
| 10°   | 1680.7 | 1680.7 | 1678.3 | 1675.9 | 1671.1 | 1668.8 | 1666.4 | 1661.6 | 1654.6 | 1645.1 | 1638.0 |
| 12.5° | 1687.8 | 1687.8 | 1685.4 | 1680.7 | 1678.3 | 1675.9 | 1673.5 | 1666.4 | 1657.0 | 1645.1 | 1635.6 |
| 15°   | 1690.2 | 1685.4 | 1683.0 | 1680.7 | 1675.9 | 1668.8 | 1668.8 | 1659.4 | 1647.5 | 1633.2 | 1621.4 |
| 17.5° | 1671.1 | 1673.5 | 1668.8 | 1664.0 | 1657.0 | 1652.2 | 1645.1 | 1638.0 | 1623.7 | 1607.2 | 1595.3 |
| 20°   | 1647.5 | 1645.1 | 1642.7 | 1635.6 | 1626.1 | 1623.7 | 1616.7 | 1604.8 | 1592.9 | 1574.0 | 1557.4 |
| 22.5° | 1609.5 | 1607.2 | 1602.4 | 1597.7 | 1588.1 | 1583.5 | 1576.4 | 1562.1 | 1545.6 | 1526.6 | 1507.7 |
| 25°   | 1562.1 | 1557.4 | 1550.2 | 1540.8 | 1533.7 | 1528.9 | 1519.4 | 1505.3 | 1486.2 | 1465.0 | 1445.9 |
| 27.5° | 1486.2 | 1493.4 | 1488.6 | 1474.4 | 1467.3 | 1457.8 | 1455.5 | 1436.4 | 1419.9 | 1398.6 | 1377.2 |
| 30°   | 1412.8 | 1412.8 | 1405.6 | 1398.6 | 1386.7 | 1379.6 | 1370.1 | 1355.9 | 1339.3 | 1313.3 | 1296.6 |
| 32.5° | 1320.4 | 1318.0 | 1308.5 | 1306.1 | 1296.6 | 1282.5 | 1280.1 | 1261.1 | 1244.5 | 1225.5 | 1204.2 |
| 35°   | 1218.4 | 1213.6 | 1204.2 | 1197.1 | 1192.3 | 1185.2 | 1178.1 | 1161.5 | 1144.9 | 1126.0 | 1111.7 |
| 37.5° | 1102.2 | 1102.2 | 1099.9 | 1088.1 | 1083.3 | 1078.5 | 1071.4 | 1054.9 | 1045.4 | 1026.3 | 1012.2 |
| 40°   | 990.8  | 988.4  | 981.4  | 979.0  | 974.3  | 967.1  | 962.4  | 952.9  | 938.7  | 924.4  | 910.3  |
| 42.5° | 881.8  | 884.1  | 874.7  | 877.0  | 867.6  | 862.9  | 860.5  | 846.2  | 839.2  | 824.9  | 813.0  |
| 45°   | 784.6  | 782.2  | 777.5  | 775.1  | 770.4  | 765.6  | 761.0  | 753.8  | 741.9  | 727.7  | 720.7  |
| 47.5° | 694.5  | 687.5  | 687.5  | 685.1  | 682.7  | 673.2  | 670.8  | 663.7  | 656.6  | 642.4  | 632.9  |
| 50°   | 609.2  | 609.2  | 609.2  | 606.9  | 599.7  | 597.4  | 592.6  | 585.5  | 578.3  | 568.9  | 554.7  |
| 52.5° | 540.5  | 540.5  | 540.5  | 538.1  | 528.6  | 526.3  | 523.9  | 514.4  | 504.8  | 497.8  | 488.3  |
| 55°   | 476.4  | 478.8  | 476.4  | 471.7  | 464.7  | 464.7  | 457.5  | 452.8  | 443.3  | 436.1  | 426.7  |
| 57.5° | 422.0  | 422.0  | 417.2  | 414.8  | 410.1  | 407.7  | 403.0  | 398.2  | 386.4  | 379.3  | 367.4  |
| 60°   | 369.8  | 367.4  | 367.4  | 362.6  | 357.9  | 353.3  | 350.9  | 343.7  | 339.0  | 327.1  | 317.6  |
| 62.5° | 322.3  | 322.3  | 317.6  | 317.6  | 308.2  | 308.2  | 305.8  | 298.7  | 291.5  | 279.8  | 275.0  |
| 65°   | 277.4  | 277.4  | 275.0  | 272.6  | 265.5  | 263.1  | 260.7  | 253.6  | 246.5  | 239.5  | 232.3  |
| 67.5° | 237.1  | 237.1  | 232.3  | 230.0  | 225.2  | 222.8  | 218.1  | 213.3  | 206.2  | 199.2  | 192.0  |
| 70°   | 199.2  | 196.8  | 194.4  | 192.0  | 187.3  | 184.9  | 180.1  | 175.4  | 168.2  | 163.6  | 156.5  |
| 72.5° | 161.2  | 161.2  | 158.9  | 154.1  | 151.7  | 149.3  | 147.0  | 142.2  | 135.1  | 128.1  | 123.3  |
| 75°   | 125.7  | 125.7  | 125.7  | 120.9  | 116.2  | 113.8  | 113.8  | 109.0  | 104.3  | 97.1   | 92.5   |
| 77.5° | 97.1   | 94.8   | 92.5   | 92.5   | 87.7   | 85.4   | 83.0   | 80.6   | 73.5   | 71.1   | 66.3   |
| 80°   | 66.3   | 68.7   | 66.3   | 64.0   | 61.6   | 59.2   | 59.2   | 54.6   | 52.2   | 47.4   | 42.7   |
| 82.5° | 45.1   | 42.7   | 42.7   | 40.3   | 40.3   | 37.9   | 37.9   | 33.2   | 30.8   | 28.4   | 26.0   |
| 85°   | 23.7   | 23.7   | 21.3   | 21.3   | 21.3   | 18.9   | 18.9   | 16.6   | 16.6   | 14.3   | 11.9   |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 4.8    | 4.8    | 4.8    |
| 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°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 |
| 2.5°  | 1607.2 | 1602.4 | 1600.0 | 1600.0 | 1597.7 | 1595.3 | 1592.9 | 1590.5 | 1585.8 | 1585.8 | 1581.1 |
| 5°    | 1619.1 | 1614.3 | 1611.9 | 1604.8 | 1600.0 | 1600.0 | 1590.5 | 1588.1 | 1581.1 | 1576.4 | 1571.6 |
| 7.5°  | 1628.5 | 1619.1 | 1611.9 | 1604.8 | 1600.0 | 1595.3 | 1585.8 | 1576.4 | 1566.9 | 1557.4 | 1552.6 |
| 10°   | 1628.5 | 1619.1 | 1607.2 | 1595.3 | 1590.5 | 1585.8 | 1574.0 | 1559.7 | 1548.0 | 1538.4 | 1526.6 |
| 12.5° | 1623.7 | 1609.5 | 1595.3 | 1585.8 | 1576.4 | 1569.2 | 1555.0 | 1540.8 | 1526.6 | 1507.7 | 1498.1 |
| 15°   | 1609.5 | 1590.5 | 1576.4 | 1559.7 | 1552.6 | 1540.8 | 1528.9 | 1507.7 | 1491.0 | 1474.4 | 1462.6 |
| 17.5° | 1581.1 | 1557.4 | 1540.8 | 1524.2 | 1512.3 | 1505.3 | 1486.2 | 1467.3 | 1448.3 | 1429.4 | 1415.1 |
| 20°   | 1538.4 | 1517.0 | 1498.1 | 1476.7 | 1467.3 | 1457.8 | 1434.2 | 1415.1 | 1396.2 | 1374.8 | 1360.7 |
| 22.5° | 1486.2 | 1465.0 | 1438.8 | 1422.3 | 1408.0 | 1396.2 | 1374.8 | 1353.6 | 1334.5 | 1315.6 | 1296.6 |
| 25°   | 1422.3 | 1400.9 | 1377.2 | 1351.2 | 1341.7 | 1329.8 | 1306.1 | 1284.8 | 1263.4 | 1242.1 | 1225.5 |
| 27.5° | 1353.6 | 1325.0 | 1306.1 | 1277.7 | 1268.2 | 1256.3 | 1230.3 | 1206.6 | 1187.6 | 1171.0 | 1152.0 |
| 30°   | 1270.6 | 1249.3 | 1223.1 | 1197.1 | 1187.6 | 1175.7 | 1154.4 | 1133.1 | 1114.1 | 1095.2 | 1076.2 |
| 32.5° | 1180.4 | 1159.2 | 1133.1 | 1114.1 | 1099.9 | 1090.4 | 1069.0 | 1050.1 | 1031.1 | 1012.2 | 995.5  |
| 35°   | 1085.7 | 1062.0 | 1043.0 | 1024.1 | 1012.2 | 1000.3 | 979.0  | 962.4  | 948.2  | 931.6  | 914.9  |
| 37.5° | 988.4  | 971.9  | 952.9  | 931.6  | 919.7  | 910.3  | 893.7  | 874.7  | 862.9  | 848.6  | 836.8  |
| 40°   | 893.7  | 874.7  | 858.1  | 839.2  | 829.7  | 822.6  | 805.9  | 791.8  | 779.9  | 768.0  | 761.0  |
| 42.5° | 796.5  | 779.9  | 763.3  | 751.4  | 744.3  | 737.2  | 725.4  | 708.8  | 701.6  | 689.9  | 682.7  |
| 45°   | 706.4  | 692.1  | 680.3  | 663.7  | 658.9  | 654.2  | 640.0  | 628.1  | 621.0  | 614.0  | 609.2  |
| 47.5° | 621.0  | 611.6  | 597.4  | 587.8  | 580.7  | 576.1  | 566.6  | 557.0  | 549.9  | 545.2  | 540.5  |
| 50°   | 547.5  | 535.8  | 526.3  | 516.7  | 512.0  | 504.8  | 495.5  | 490.7  | 485.9  | 481.2  | 481.2  |
| 52.5° | 478.8  | 466.9  | 457.5  | 450.4  | 445.6  | 440.9  | 433.7  | 431.4  | 426.7  | 426.7  | 424.4  |
| 55°   | 414.8  | 407.7  | 398.2  | 388.8  | 386.4  | 384.0  | 379.3  | 374.5  | 372.2  | 369.8  | 372.2  |
| 57.5° | 360.3  | 353.3  | 343.7  | 336.6  | 334.2  | 331.8  | 329.5  | 324.7  | 322.3  | 322.3  | 322.3  |
| 60°   | 310.6  | 303.4  | 296.3  | 289.2  | 289.2  | 284.4  | 282.0  | 279.8  | 277.4  | 275.0  | 275.0  |
| 62.5° | 265.5  | 258.4  | 251.2  | 246.5  | 244.1  | 241.8  | 237.1  | 234.7  | 232.3  | 232.3  | 230.0  |
| 65°   | 225.2  | 215.7  | 213.3  | 206.2  | 203.9  | 201.5  | 199.2  | 194.4  | 192.0  | 189.6  | 187.3  |
| 67.5° | 184.9  | 180.1  | 173.0  | 168.2  | 166.0  | 163.6  | 161.2  | 156.5  | 154.1  | 151.7  | 147.0  |
| 70°   | 149.3  | 144.6  | 139.8  | 135.1  | 132.7  | 130.4  | 125.7  | 120.9  | 118.5  | 113.8  | 106.7  |
| 72.5° | 116.2  | 111.4  | 106.7  | 101.9  | 99.5   | 97.1   | 92.5   | 87.7   | 83.0   | 78.2   | 73.5   |
| 75°   | 87.7   | 83.0   | 75.9   | 71.1   | 68.7   | 68.7   | 61.6   | 56.8   | 52.2   | 45.1   | 40.3   |
| 77.5° | 61.6   | 54.6   | 52.2   | 47.4   | 45.1   | 40.3   | 35.6   | 30.8   | 26.0   | 23.7   | 18.9   |
| 80°   | 40.3   | 35.6   | 30.8   | 28.4   | 26.0   | 23.7   | 21.3   | 16.6   | 11.9   | 9.5    | 7.1    |
| 82.5° | 23.7   | 21.3   | 18.9   | 16.6   | 14.3   | 11.9   | 9.5    | 9.5    | 7.1    | 4.8    | 2.4    |
| 85°   | 11.9   | 9.5    | 7.1    | 7.1    | 4.8    | 4.8    | 4.8    | 2.4    | 2.4    | 2.4    | 2.4    |
| 87.5° | 4.8    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 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  
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TEST NUMBER: P593683

CATALOG NUMBER: HCC8S30D010SL-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 |
| 2.5°  | 1578.8 | 1576.4 | 1574.0 | 1571.6 | 1571.6 | 1566.9 | 1566.9 | 1564.5 | 1559.7 | 1557.4 | 1557.4 |
| 5°    | 1564.5 | 1557.4 | 1552.6 | 1550.2 | 1548.0 | 1540.8 | 1538.4 | 1533.7 | 1528.9 | 1524.2 | 1521.8 |
| 7.5°  | 1543.2 | 1531.3 | 1526.6 | 1524.2 | 1517.0 | 1510.0 | 1505.3 | 1498.1 | 1491.0 | 1483.9 | 1481.5 |
| 10°   | 1517.0 | 1505.3 | 1493.4 | 1488.6 | 1481.5 | 1476.7 | 1467.3 | 1457.8 | 1450.7 | 1443.6 | 1436.4 |
| 12.5° | 1483.9 | 1469.7 | 1457.8 | 1453.1 | 1445.9 | 1436.4 | 1422.3 | 1417.5 | 1405.6 | 1400.9 | 1391.5 |
| 15°   | 1445.9 | 1429.4 | 1417.5 | 1410.4 | 1403.3 | 1389.1 | 1379.6 | 1370.1 | 1358.3 | 1353.6 | 1344.0 |
| 17.5° | 1398.6 | 1379.6 | 1367.7 | 1360.7 | 1355.9 | 1344.0 | 1329.8 | 1318.0 | 1306.1 | 1301.4 | 1294.2 |
| 20°   | 1341.7 | 1329.8 | 1313.3 | 1306.1 | 1301.4 | 1287.1 | 1272.9 | 1268.2 | 1258.7 | 1249.3 | 1242.1 |
| 22.5° | 1277.7 | 1265.8 | 1249.3 | 1242.1 | 1239.8 | 1227.9 | 1216.0 | 1209.0 | 1201.8 | 1194.7 | 1187.6 |
| 25°   | 1211.4 | 1197.1 | 1182.8 | 1178.1 | 1173.4 | 1163.9 | 1154.4 | 1149.6 | 1142.5 | 1137.8 | 1133.1 |
| 27.5° | 1140.1 | 1126.0 | 1114.1 | 1107.0 | 1102.2 | 1095.2 | 1090.4 | 1085.7 | 1080.9 | 1076.2 | 1073.8 |
| 30°   | 1064.3 | 1050.1 | 1040.6 | 1035.9 | 1031.1 | 1028.7 | 1021.7 | 1019.3 | 1017.0 | 1012.2 | 1014.6 |
| 32.5° | 988.4  | 976.6  | 967.1  | 960.0  | 960.0  | 955.2  | 952.9  | 952.9  | 950.6  | 950.6  | 950.6  |
| 35°   | 905.5  | 898.4  | 891.3  | 888.9  | 886.5  | 884.1  | 881.8  | 884.1  | 881.8  | 884.1  | 886.5  |
| 37.5° | 829.7  | 822.6  | 817.8  | 815.4  | 813.0  | 815.4  | 813.0  | 813.0  | 815.4  | 820.2  | 822.6  |
| 40°   | 751.4  | 746.7  | 741.9  | 744.3  | 741.9  | 741.9  | 741.9  | 749.1  | 751.4  | 753.8  | 756.2  |
| 42.5° | 678.0  | 673.2  | 670.8  | 670.8  | 673.2  | 670.8  | 675.6  | 678.0  | 682.7  | 689.9  | 694.5  |
| 45°   | 606.9  | 604.5  | 604.5  | 606.9  | 604.5  | 609.2  | 609.2  | 614.0  | 621.0  | 625.8  | 630.5  |
| 47.5° | 540.5  | 540.5  | 540.5  | 542.8  | 542.8  | 545.2  | 549.9  | 552.3  | 557.0  | 561.8  | 566.6  |
| 50°   | 478.8  | 481.2  | 483.6  | 483.6  | 483.6  | 488.3  | 493.1  | 495.5  | 497.8  | 500.2  | 507.2  |
| 52.5° | 424.4  | 426.7  | 426.7  | 429.0  | 431.4  | 433.7  | 436.1  | 440.9  | 443.3  | 448.0  | 450.4  |
| 55°   | 372.2  | 372.2  | 376.9  | 379.3  | 379.3  | 379.3  | 384.0  | 384.0  | 388.8  | 391.2  | 395.8  |
| 57.5° | 322.3  | 324.7  | 324.7  | 327.1  | 327.1  | 329.5  | 331.8  | 334.2  | 336.6  | 339.0  | 341.4  |
| 60°   | 275.0  | 275.0  | 275.0  | 277.4  | 279.8  | 282.0  | 279.8  | 284.4  | 284.4  | 289.2  | 291.5  |
| 62.5° | 230.0  | 232.3  | 232.3  | 232.3  | 232.3  | 232.3  | 232.3  | 234.7  | 237.1  | 239.5  | 241.8  |
| 65°   | 187.3  | 187.3  | 187.3  | 184.9  | 187.3  | 184.9  | 187.3  | 189.6  | 189.6  | 192.0  | 194.4  |
| 67.5° | 144.6  | 144.6  | 139.8  | 139.8  | 142.2  | 142.2  | 142.2  | 142.2  | 139.8  | 144.6  | 144.6  |
| 70°   | 104.3  | 101.9  | 99.5   | 97.1   | 97.1   | 94.8   | 94.8   | 92.5   | 92.5   | 92.5   | 92.5   |
| 72.5° | 68.7   | 64.0   | 59.2   | 56.8   | 54.6   | 54.6   | 49.8   | 47.4   | 49.8   | 49.8   | 49.8   |
| 75°   | 35.6   | 30.8   | 28.4   | 26.0   | 23.7   | 23.7   | 21.3   | 21.3   | 21.3   | 21.3   | 21.3   |
| 77.5° | 14.3   | 11.9   | 9.5    | 9.5    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 80°   | 4.8    | 4.8    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 82.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 85°   | 2.4    | 0.0    | 0.0    | 2.4    | 0.0    | 2.4    | 2.4    | 2.4    | 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: P593683

CATALOG NUMBER: HCC8S30D010SL-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 |
| 2.5°  | 1555.0 | 1555.0 | 1552.6 | 1555.0 | 1550.2 | 1552.6 | 1550.2 | 1550.2 |
| 5°    | 1519.4 | 1514.7 | 1514.7 | 1514.7 | 1512.3 | 1512.3 | 1510.0 | 1510.0 |
| 7.5°  | 1476.7 | 1474.4 | 1472.1 | 1469.7 | 1467.3 | 1465.0 | 1465.0 | 1465.0 |
| 10°   | 1434.2 | 1429.4 | 1429.4 | 1427.0 | 1422.3 | 1419.9 | 1419.9 | 1419.9 |
| 12.5° | 1384.4 | 1382.0 | 1379.6 | 1379.6 | 1370.1 | 1372.5 | 1370.1 | 1370.1 |
| 15°   | 1336.9 | 1334.5 | 1334.5 | 1327.4 | 1322.8 | 1322.8 | 1322.8 | 1320.4 |
| 17.5° | 1287.1 | 1284.8 | 1282.5 | 1277.7 | 1272.9 | 1272.9 | 1270.6 | 1272.9 |
| 20°   | 1235.0 | 1232.6 | 1227.9 | 1227.9 | 1225.5 | 1223.1 | 1218.4 | 1220.7 |
| 22.5° | 1182.8 | 1178.1 | 1175.7 | 1175.7 | 1173.4 | 1173.4 | 1168.7 | 1168.7 |
| 25°   | 1128.4 | 1126.0 | 1123.6 | 1126.0 | 1121.2 | 1121.2 | 1116.5 | 1116.5 |
| 27.5° | 1071.4 | 1069.0 | 1069.0 | 1069.0 | 1066.7 | 1069.0 | 1066.7 | 1066.7 |
| 30°   | 1014.6 | 1014.6 | 1012.2 | 1012.2 | 1014.6 | 1012.2 | 1014.6 | 1017.0 |
| 32.5° | 952.9  | 952.9  | 955.2  | 955.2  | 957.6  | 957.6  | 957.6  | 957.6  |
| 35°   | 888.9  | 893.7  | 893.7  | 896.0  | 898.4  | 900.8  | 900.8  | 903.2  |
| 37.5° | 829.7  | 832.1  | 834.4  | 836.8  | 841.5  | 841.5  | 841.5  | 841.5  |
| 40°   | 765.6  | 768.0  | 772.7  | 770.4  | 779.9  | 782.2  | 779.9  | 779.9  |
| 42.5° | 699.3  | 704.0  | 706.4  | 711.1  | 713.5  | 718.3  | 720.7  | 720.7  |
| 45°   | 637.7  | 640.0  | 644.8  | 649.6  | 651.9  | 658.9  | 658.9  | 658.9  |
| 47.5° | 573.7  | 578.3  | 580.7  | 585.5  | 587.8  | 595.0  | 597.4  | 595.0  |
| 50°   | 512.0  | 516.7  | 521.5  | 521.5  | 528.6  | 531.0  | 535.8  | 538.1  |
| 52.5° | 452.8  | 455.1  | 459.9  | 462.3  | 466.9  | 471.7  | 474.1  | 476.4  |
| 55°   | 395.8  | 398.2  | 403.0  | 403.0  | 410.1  | 412.5  | 417.2  | 417.2  |
| 57.5° | 343.7  | 346.1  | 350.9  | 348.5  | 353.3  | 357.9  | 357.9  | 355.5  |
| 60°   | 293.9  | 293.9  | 293.9  | 298.7  | 301.1  | 303.4  | 305.8  | 305.8  |
| 62.5° | 241.8  | 246.5  | 248.9  | 248.9  | 251.2  | 253.6  | 253.6  | 251.2  |
| 65°   | 194.4  | 199.2  | 201.5  | 201.5  | 203.9  | 203.9  | 203.9  | 206.2  |
| 67.5° | 147.0  | 147.0  | 147.0  | 149.3  | 147.0  | 147.0  | 147.0  | 147.0  |
| 70°   | 92.5   | 92.5   | 92.5   | 92.5   | 90.1   | 92.5   | 92.5   | 94.8   |
| 72.5° | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   |
| 75°   | 21.3   | 21.3   | 21.3   | 23.7   | 21.3   | 21.3   | 21.3   | 21.3   |
| 77.5° | 9.5    | 7.1    | 9.5    | 9.5    | 7.1    | 7.1    | 7.1    | 7.1    |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 82.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 85°   | 0.0    | 2.4    | 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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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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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