

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: P584249

Luminaire Tested: **HCC8W30D010SL-HM82555827-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584249  
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: HCC8W30D010SL-HM82555827-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

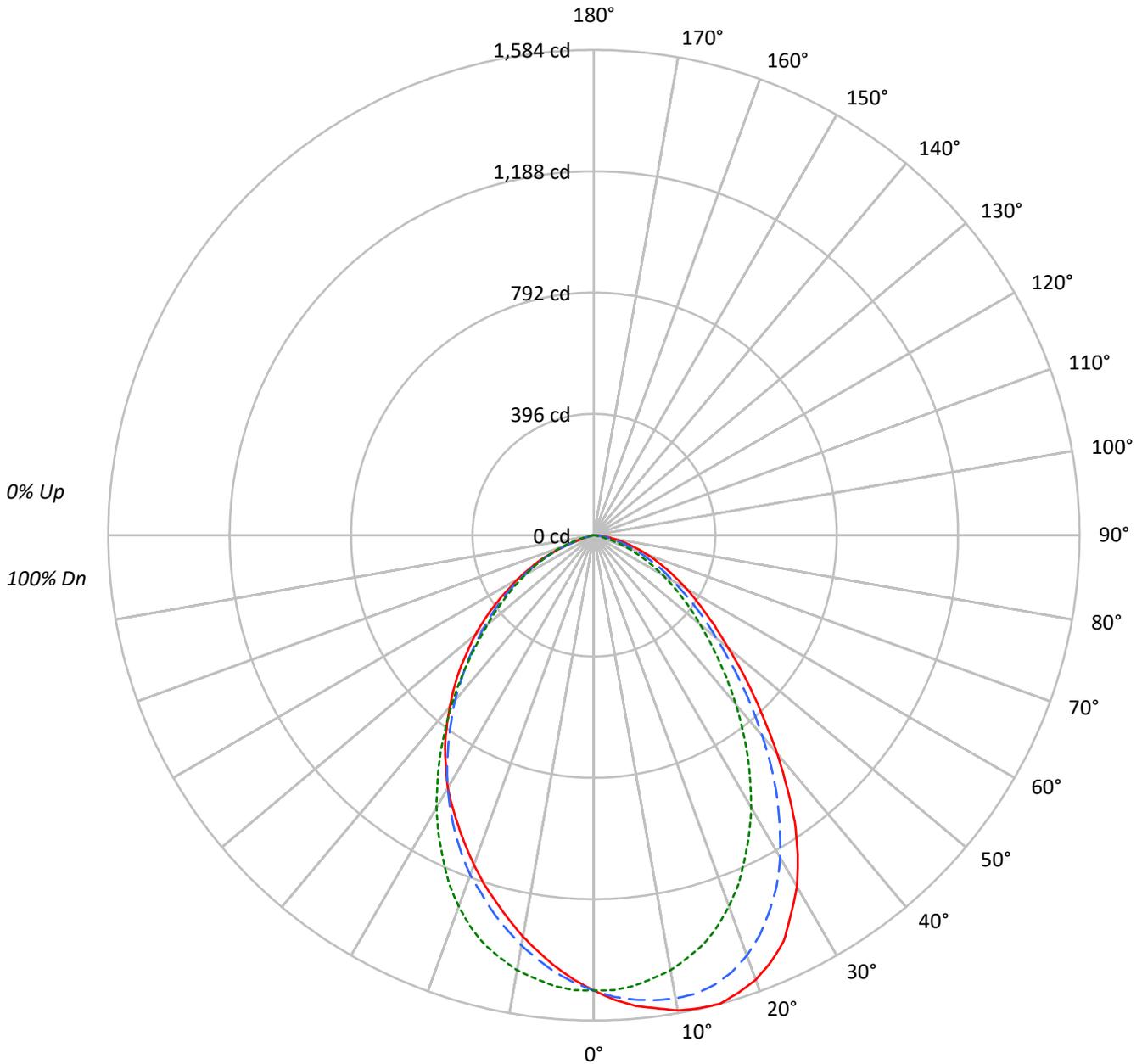
Lumens per Lamp: N/A  
Luminaire Lumens: 2768.4 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (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°  | 45829 | 45829 | 45829 |
| 5°  | 47725 | 45728 | 43803 |
| 10° | 49320 | 45146 | 41667 |
| 15° | 50568 | 44116 | 39503 |
| 20° | 50667 | 42283 | 37544 |
| 25° | 49811 | 39607 | 35599 |
| 30° | 47147 | 36543 | 33937 |
| 35° | 42986 | 32867 | 31862 |
| 40° | 37380 | 28975 | 29422 |
| 45° | 32070 | 25093 | 26933 |
| 50° | 27392 | 21636 | 24193 |
| 55° | 24010 | 18634 | 21015 |
| 60° | 21376 | 15893 | 17669 |
| 65° | 18964 | 12973 | 14104 |
| 70° | 16824 | 9620  | 8006  |
| 75° | 14023 | 5028  | 2383  |
| 80° | 11045 | 1580  | 408   |
| 85° | 7855  | 814   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.0  | 5.1       |
| 10°-20°   | 392.5  | 14.2      |
| 20°-30°   | 555.6  | 20.1      |
| 30°-40°   | 581.2  | 21.0      |
| 40°-50°   | 484.8  | 17.5      |
| 50°-60°   | 343.8  | 12.4      |
| 60°-70°   | 198.0  | 7.2       |
| 70°-80°   | 63.7   | 2.3       |
| 80°-90°   | 8.8    | 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°    | 1088.1 | 39.3      |
| 0°-40°    | 1669.3 | 60.3      |
| 0°-60°    | 2497.9 | 90.2      |
| 0°-90°    | 2768.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2768.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1486 | 1486 | 1486 | 1486 | 1486 |      |
| 5°  | 1542 | 1522 | 1477 | 1433 | 1415 | 148  |
| 15° | 1584 | 1520 | 1382 | 1273 | 1237 | 445  |
| 25° | 1464 | 1355 | 1164 | 1071 | 1046 | 668  |
| 35° | 1142 | 1042 | 873  | 826  | 846  | 708  |
| 45° | 735  | 675  | 575  | 582  | 618  | 570  |
| 55° | 447  | 400  | 347  | 364  | 391  | 403  |
| 65° | 260  | 218  | 178  | 178  | 193  | 260  |
| 75° | 118  | 87   | 42   | 20   | 20   | 128  |
| 85° | 22   | 11   | 2    | 0    | 0    | 28   |
| 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°    | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 |
| 2.5°  | 1517.3 | 1515.1 | 1512.9 | 1515.1 | 1512.9 | 1515.1 | 1512.9 | 1512.9 | 1510.6 | 1508.5 | 1508.5 |
| 5°    | 1541.8 | 1539.5 | 1539.5 | 1539.5 | 1537.4 | 1535.1 | 1535.1 | 1532.9 | 1528.5 | 1526.2 | 1521.8 |
| 7.5°  | 1557.4 | 1559.5 | 1559.5 | 1559.5 | 1555.1 | 1555.1 | 1550.7 | 1546.2 | 1541.8 | 1537.4 | 1530.7 |
| 10°   | 1575.1 | 1575.1 | 1572.9 | 1570.7 | 1566.2 | 1564.0 | 1561.8 | 1557.4 | 1550.7 | 1541.8 | 1535.1 |
| 12.5° | 1581.7 | 1581.7 | 1579.6 | 1575.1 | 1572.9 | 1570.7 | 1568.4 | 1561.8 | 1552.8 | 1541.8 | 1532.9 |
| 15°   | 1584.0 | 1579.6 | 1577.3 | 1575.1 | 1570.7 | 1564.0 | 1564.0 | 1555.1 | 1544.0 | 1530.7 | 1519.5 |
| 17.5° | 1566.2 | 1568.4 | 1564.0 | 1559.5 | 1552.8 | 1548.4 | 1541.8 | 1535.1 | 1521.8 | 1506.2 | 1495.2 |
| 20°   | 1544.0 | 1541.8 | 1539.5 | 1532.9 | 1523.9 | 1521.8 | 1515.1 | 1504.0 | 1492.9 | 1475.1 | 1459.6 |
| 22.5° | 1508.5 | 1506.2 | 1501.8 | 1497.3 | 1488.5 | 1484.0 | 1477.3 | 1464.0 | 1448.4 | 1430.7 | 1412.9 |
| 25°   | 1464.0 | 1459.6 | 1453.0 | 1444.0 | 1437.4 | 1432.9 | 1424.1 | 1410.7 | 1392.9 | 1372.9 | 1355.1 |
| 27.5° | 1392.9 | 1399.6 | 1395.2 | 1381.9 | 1375.2 | 1366.3 | 1364.0 | 1346.3 | 1330.7 | 1310.8 | 1290.8 |
| 30°   | 1324.1 | 1324.1 | 1317.4 | 1310.8 | 1299.6 | 1292.9 | 1284.1 | 1270.7 | 1255.2 | 1230.7 | 1215.2 |
| 32.5° | 1237.4 | 1235.3 | 1226.3 | 1224.1 | 1215.2 | 1201.8 | 1199.7 | 1181.9 | 1166.3 | 1148.6 | 1128.6 |
| 35°   | 1141.9 | 1137.4 | 1128.6 | 1121.9 | 1117.4 | 1110.8 | 1104.1 | 1088.5 | 1073.1 | 1055.2 | 1041.9 |
| 37.5° | 1033.0 | 1033.0 | 1030.9 | 1019.7 | 1015.3 | 1010.8 | 1004.1 | 988.7  | 979.7  | 961.9  | 948.6  |
| 40°   | 928.6  | 926.3  | 919.7  | 917.6  | 913.0  | 906.4  | 902.0  | 893.1  | 879.7  | 866.4  | 853.1  |
| 42.5° | 826.5  | 828.6  | 819.8  | 822.0  | 813.0  | 808.6  | 806.4  | 793.1  | 786.4  | 773.1  | 762.0  |
| 45°   | 735.4  | 733.1  | 728.6  | 726.5  | 722.0  | 717.6  | 713.2  | 706.5  | 695.3  | 682.0  | 675.4  |
| 47.5° | 651.0  | 644.2  | 644.2  | 642.1  | 639.8  | 630.9  | 628.7  | 622.1  | 615.4  | 602.0  | 593.2  |
| 50°   | 571.0  | 571.0  | 571.0  | 568.7  | 562.0  | 559.8  | 555.4  | 548.7  | 542.1  | 533.1  | 519.8  |
| 52.5° | 506.5  | 506.5  | 506.5  | 504.3  | 495.5  | 493.2  | 490.9  | 482.1  | 473.2  | 466.6  | 457.6  |
| 55°   | 446.6  | 448.7  | 446.6  | 442.1  | 435.4  | 435.4  | 428.8  | 424.4  | 415.4  | 408.8  | 399.9  |
| 57.5° | 395.5  | 395.5  | 390.9  | 388.8  | 384.3  | 382.1  | 377.6  | 373.2  | 362.2  | 355.5  | 344.3  |
| 60°   | 346.6  | 344.3  | 344.3  | 339.9  | 335.4  | 331.0  | 328.8  | 322.1  | 317.7  | 306.5  | 297.7  |
| 62.5° | 302.1  | 302.1  | 297.7  | 297.7  | 288.8  | 288.8  | 286.5  | 279.9  | 273.2  | 262.2  | 257.7  |
| 65°   | 259.9  | 259.9  | 257.7  | 255.5  | 248.9  | 246.6  | 244.3  | 237.7  | 231.0  | 224.4  | 217.7  |
| 67.5° | 222.1  | 222.1  | 217.7  | 215.4  | 211.0  | 208.8  | 204.4  | 200.0  | 193.3  | 186.6  | 179.9  |
| 70°   | 186.6  | 184.4  | 182.2  | 179.9  | 175.5  | 173.2  | 168.8  | 164.4  | 157.8  | 153.3  | 146.6  |
| 72.5° | 151.1  | 151.1  | 148.9  | 144.3  | 142.2  | 139.9  | 137.7  | 133.3  | 126.6  | 120.0  | 115.6  |
| 75°   | 117.7  | 117.7  | 117.7  | 113.3  | 108.9  | 106.7  | 106.7  | 102.1  | 97.7   | 91.1   | 86.7   |
| 77.5° | 91.1   | 88.8   | 86.7   | 86.7   | 82.2   | 80.0   | 77.8   | 75.5   | 68.8   | 66.7   | 62.2   |
| 80°   | 62.2   | 64.4   | 62.2   | 59.9   | 57.8   | 55.5   | 55.5   | 51.1   | 48.9   | 44.5   | 40.0   |
| 82.5° | 42.2   | 40.0   | 40.0   | 37.8   | 37.8   | 35.6   | 35.6   | 31.2   | 28.9   | 26.6   | 24.5   |
| 85°   | 22.2   | 22.2   | 20.0   | 20.0   | 20.0   | 17.7   | 17.7   | 15.6   | 15.6   | 13.3   | 11.1   |
| 87.5° | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 4.4    | 4.4    | 4.4    |
| 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°    | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 |
| 2.5°  | 1506.2 | 1501.8 | 1499.6 | 1499.6 | 1497.3 | 1495.2 | 1492.9 | 1490.6 | 1486.2 | 1486.2 | 1481.7 |
| 5°    | 1517.3 | 1512.9 | 1510.6 | 1504.0 | 1499.6 | 1499.6 | 1490.6 | 1488.5 | 1481.7 | 1477.3 | 1472.9 |
| 7.5°  | 1526.2 | 1517.3 | 1510.6 | 1504.0 | 1499.6 | 1495.2 | 1486.2 | 1477.3 | 1468.4 | 1459.6 | 1455.1 |
| 10°   | 1526.2 | 1517.3 | 1506.2 | 1495.2 | 1490.6 | 1486.2 | 1475.1 | 1461.8 | 1450.7 | 1441.8 | 1430.7 |
| 12.5° | 1521.8 | 1508.5 | 1495.2 | 1486.2 | 1477.3 | 1470.7 | 1457.4 | 1444.0 | 1430.7 | 1412.9 | 1404.1 |
| 15°   | 1508.5 | 1490.6 | 1477.3 | 1461.8 | 1455.1 | 1444.0 | 1432.9 | 1412.9 | 1397.3 | 1381.9 | 1370.7 |
| 17.5° | 1481.7 | 1459.6 | 1444.0 | 1428.5 | 1417.4 | 1410.7 | 1392.9 | 1375.2 | 1357.4 | 1339.6 | 1326.3 |
| 20°   | 1441.8 | 1421.8 | 1404.1 | 1384.0 | 1375.2 | 1366.3 | 1344.0 | 1326.3 | 1308.5 | 1288.5 | 1275.2 |
| 22.5° | 1392.9 | 1372.9 | 1348.4 | 1333.0 | 1319.7 | 1308.5 | 1288.5 | 1268.5 | 1250.7 | 1233.0 | 1215.2 |
| 25°   | 1333.0 | 1312.9 | 1290.8 | 1266.3 | 1257.4 | 1246.3 | 1224.1 | 1204.1 | 1184.1 | 1164.1 | 1148.6 |
| 27.5° | 1268.5 | 1241.9 | 1224.1 | 1197.4 | 1188.5 | 1177.5 | 1153.0 | 1130.7 | 1113.0 | 1097.4 | 1079.7 |
| 30°   | 1190.8 | 1170.8 | 1146.3 | 1121.9 | 1113.0 | 1101.8 | 1081.9 | 1061.9 | 1044.2 | 1026.3 | 1008.6 |
| 32.5° | 1106.4 | 1086.4 | 1061.9 | 1044.2 | 1030.9 | 1021.9 | 1002.0 | 984.1  | 966.4  | 948.6  | 933.0  |
| 35°   | 1017.4 | 995.3  | 977.5  | 959.8  | 948.6  | 937.5  | 917.6  | 902.0  | 888.7  | 873.1  | 857.5  |
| 37.5° | 926.3  | 910.9  | 893.1  | 873.1  | 862.0  | 853.1  | 837.5  | 819.8  | 808.6  | 795.3  | 784.3  |
| 40°   | 837.5  | 819.8  | 804.2  | 786.4  | 777.6  | 770.8  | 755.4  | 742.1  | 730.9  | 719.8  | 713.2  |
| 42.5° | 746.5  | 730.9  | 715.3  | 704.2  | 697.6  | 690.9  | 679.8  | 664.3  | 657.6  | 646.5  | 639.8  |
| 45°   | 662.0  | 648.7  | 637.5  | 622.1  | 617.6  | 613.2  | 599.9  | 588.7  | 582.0  | 575.4  | 571.0  |
| 47.5° | 582.0  | 573.2  | 559.8  | 551.0  | 544.3  | 539.8  | 531.0  | 522.1  | 515.4  | 510.9  | 506.5  |
| 50°   | 513.2  | 502.1  | 493.2  | 484.3  | 479.9  | 473.2  | 464.3  | 459.9  | 455.4  | 451.0  | 451.0  |
| 52.5° | 448.7  | 437.7  | 428.8  | 422.1  | 417.7  | 413.2  | 406.5  | 404.4  | 399.9  | 399.9  | 397.7  |
| 55°   | 388.8  | 382.1  | 373.2  | 364.3  | 362.2  | 359.9  | 355.5  | 351.0  | 348.7  | 346.6  | 348.7  |
| 57.5° | 337.7  | 331.0  | 322.1  | 315.4  | 313.2  | 311.0  | 308.8  | 304.4  | 302.1  | 302.1  | 302.1  |
| 60°   | 291.1  | 284.4  | 277.8  | 271.0  | 271.0  | 266.6  | 264.3  | 262.2  | 259.9  | 257.7  | 257.7  |
| 62.5° | 248.9  | 242.2  | 235.5  | 231.0  | 228.8  | 226.6  | 222.1  | 220.0  | 217.7  | 217.7  | 215.4  |
| 65°   | 211.0  | 202.1  | 200.0  | 193.3  | 191.1  | 188.8  | 186.6  | 182.2  | 179.9  | 177.8  | 175.5  |
| 67.5° | 173.2  | 168.8  | 162.2  | 157.8  | 155.5  | 153.3  | 151.1  | 146.6  | 144.3  | 142.2  | 137.7  |
| 70°   | 139.9  | 135.5  | 131.0  | 126.6  | 124.4  | 122.2  | 117.7  | 113.3  | 111.1  | 106.7  | 100.0  |
| 72.5° | 108.9  | 104.4  | 100.0  | 95.5   | 93.3   | 91.1   | 86.7   | 82.2   | 77.8   | 73.4   | 68.8   |
| 75°   | 82.2   | 77.8   | 71.1   | 66.7   | 64.4   | 64.4   | 57.8   | 53.3   | 48.9   | 42.2   | 37.8   |
| 77.5° | 57.8   | 51.1   | 48.9   | 44.5   | 42.2   | 37.8   | 33.3   | 28.9   | 24.5   | 22.2   | 17.7   |
| 80°   | 37.8   | 33.3   | 28.9   | 26.6   | 24.5   | 22.2   | 20.0   | 15.6   | 11.1   | 8.9    | 6.7    |
| 82.5° | 22.2   | 20.0   | 17.7   | 15.6   | 13.3   | 11.1   | 8.9    | 8.9    | 6.7    | 4.4    | 2.3    |
| 85°   | 11.1   | 8.9    | 6.7    | 6.7    | 4.4    | 4.4    | 4.4    | 2.3    | 2.3    | 2.3    | 2.3    |
| 87.5° | 4.4    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 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: P584249

CATALOG NUMBER: HCC8W30D010SL-HM82555827-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 |
| 2.5°  | 1479.6 | 1477.3 | 1475.1 | 1472.9 | 1472.9 | 1468.4 | 1468.4 | 1466.3 | 1461.8 | 1459.6 | 1459.6 |
| 5°    | 1466.3 | 1459.6 | 1455.1 | 1453.0 | 1450.7 | 1444.0 | 1441.8 | 1437.4 | 1432.9 | 1428.5 | 1426.2 |
| 7.5°  | 1446.3 | 1435.1 | 1430.7 | 1428.5 | 1421.8 | 1415.1 | 1410.7 | 1404.1 | 1397.3 | 1390.7 | 1388.5 |
| 10°   | 1421.8 | 1410.7 | 1399.6 | 1395.2 | 1388.5 | 1384.0 | 1375.2 | 1366.3 | 1359.6 | 1353.0 | 1346.3 |
| 12.5° | 1390.7 | 1377.3 | 1366.3 | 1361.9 | 1355.1 | 1346.3 | 1333.0 | 1328.5 | 1317.4 | 1312.9 | 1304.1 |
| 15°   | 1355.1 | 1339.6 | 1328.5 | 1321.8 | 1315.2 | 1301.8 | 1292.9 | 1284.1 | 1272.9 | 1268.5 | 1259.6 |
| 17.5° | 1310.8 | 1292.9 | 1281.9 | 1275.2 | 1270.7 | 1259.6 | 1246.3 | 1235.3 | 1224.1 | 1219.7 | 1213.0 |
| 20°   | 1257.4 | 1246.3 | 1230.7 | 1224.1 | 1219.7 | 1206.4 | 1193.0 | 1188.5 | 1179.6 | 1170.8 | 1164.1 |
| 22.5° | 1197.4 | 1186.3 | 1170.8 | 1164.1 | 1161.9 | 1150.8 | 1139.7 | 1133.0 | 1126.3 | 1119.7 | 1113.0 |
| 25°   | 1135.3 | 1121.9 | 1108.6 | 1104.1 | 1099.7 | 1090.8 | 1081.9 | 1077.5 | 1070.8 | 1066.4 | 1061.9 |
| 27.5° | 1068.6 | 1055.2 | 1044.2 | 1037.5 | 1033.0 | 1026.3 | 1021.9 | 1017.4 | 1013.0 | 1008.6 | 1006.4 |
| 30°   | 997.5  | 984.1  | 975.2  | 970.8  | 966.4  | 964.2  | 957.5  | 955.2  | 953.1  | 948.6  | 950.8  |
| 32.5° | 926.3  | 915.3  | 906.4  | 899.7  | 899.7  | 895.3  | 893.1  | 893.1  | 890.8  | 890.8  | 890.8  |
| 35°   | 848.6  | 841.9  | 835.3  | 833.1  | 830.9  | 828.6  | 826.5  | 828.6  | 826.5  | 828.6  | 830.9  |
| 37.5° | 777.6  | 770.8  | 766.4  | 764.2  | 762.0  | 764.2  | 762.0  | 762.0  | 764.2  | 768.7  | 770.8  |
| 40°   | 704.2  | 699.8  | 695.3  | 697.6  | 695.3  | 695.3  | 695.3  | 702.0  | 704.2  | 706.5  | 708.6  |
| 42.5° | 635.4  | 630.9  | 628.7  | 628.7  | 630.9  | 628.7  | 633.1  | 635.4  | 639.8  | 646.5  | 651.0  |
| 45°   | 568.7  | 566.6  | 566.6  | 568.7  | 566.6  | 571.0  | 571.0  | 575.4  | 582.0  | 586.5  | 590.9  |
| 47.5° | 506.5  | 506.5  | 506.5  | 508.8  | 508.8  | 510.9  | 515.4  | 517.6  | 522.1  | 526.5  | 531.0  |
| 50°   | 448.7  | 451.0  | 453.2  | 453.2  | 453.2  | 457.6  | 462.0  | 464.3  | 466.6  | 468.7  | 475.4  |
| 52.5° | 397.7  | 399.9  | 399.9  | 402.1  | 404.4  | 406.5  | 408.8  | 413.2  | 415.4  | 419.8  | 422.1  |
| 55°   | 348.7  | 348.7  | 353.3  | 355.5  | 355.5  | 355.5  | 359.9  | 359.9  | 364.3  | 366.6  | 371.0  |
| 57.5° | 302.1  | 304.4  | 304.4  | 306.5  | 306.5  | 308.8  | 311.0  | 313.2  | 315.4  | 317.7  | 320.0  |
| 60°   | 257.7  | 257.7  | 257.7  | 259.9  | 262.2  | 264.3  | 262.2  | 266.6  | 266.6  | 271.0  | 273.2  |
| 62.5° | 215.4  | 217.7  | 217.7  | 217.7  | 217.7  | 217.7  | 217.7  | 220.0  | 222.1  | 224.4  | 226.6  |
| 65°   | 175.5  | 175.5  | 175.5  | 173.2  | 175.5  | 173.2  | 175.5  | 177.8  | 177.8  | 179.9  | 182.2  |
| 67.5° | 135.5  | 135.5  | 131.0  | 131.0  | 133.3  | 133.3  | 133.3  | 133.3  | 131.0  | 135.5  | 135.5  |
| 70°   | 97.7   | 95.5   | 93.3   | 91.1   | 91.1   | 88.8   | 88.8   | 86.7   | 86.7   | 86.7   | 86.7   |
| 72.5° | 64.4   | 59.9   | 55.5   | 53.3   | 51.1   | 51.1   | 46.6   | 44.5   | 46.6   | 46.6   | 46.6   |
| 75°   | 33.3   | 28.9   | 26.6   | 24.5   | 22.2   | 22.2   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   |
| 77.5° | 13.3   | 11.1   | 8.9    | 8.9    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    |
| 80°   | 4.4    | 4.4    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 82.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 85°   | 2.3    | 0.0    | 0.0    | 2.3    | 0.0    | 2.3    | 2.3    | 2.3    | 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: P584249

CATALOG NUMBER: HCC8W30D010SL-HM82555827-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 | 1486.2 |
| 2.5°  | 1457.4 | 1457.4 | 1455.1 | 1457.4 | 1453.0 | 1455.1 | 1453.0 | 1453.0 |
| 5°    | 1424.1 | 1419.5 | 1419.5 | 1419.5 | 1417.4 | 1417.4 | 1415.1 | 1415.1 |
| 7.5°  | 1384.0 | 1381.9 | 1379.6 | 1377.3 | 1375.2 | 1372.9 | 1372.9 | 1372.9 |
| 10°   | 1344.0 | 1339.6 | 1339.6 | 1337.4 | 1333.0 | 1330.7 | 1330.7 | 1330.7 |
| 12.5° | 1297.4 | 1295.2 | 1292.9 | 1292.9 | 1284.1 | 1286.3 | 1284.1 | 1284.1 |
| 15°   | 1253.0 | 1250.7 | 1250.7 | 1244.1 | 1239.7 | 1239.7 | 1239.7 | 1237.4 |
| 17.5° | 1206.4 | 1204.1 | 1201.8 | 1197.4 | 1193.0 | 1193.0 | 1190.8 | 1193.0 |
| 20°   | 1157.5 | 1155.2 | 1150.8 | 1150.8 | 1148.6 | 1146.3 | 1141.9 | 1144.1 |
| 22.5° | 1108.6 | 1104.1 | 1101.8 | 1101.8 | 1099.7 | 1099.7 | 1095.2 | 1095.2 |
| 25°   | 1057.5 | 1055.2 | 1053.0 | 1055.2 | 1050.8 | 1050.8 | 1046.3 | 1046.3 |
| 27.5° | 1004.1 | 1002.0 | 1002.0 | 1002.0 | 999.7  | 1002.0 | 999.7  | 999.7  |
| 30°   | 950.8  | 950.8  | 948.6  | 948.6  | 950.8  | 948.6  | 950.8  | 953.1  |
| 32.5° | 893.1  | 893.1  | 895.3  | 895.3  | 897.5  | 897.5  | 897.5  | 897.5  |
| 35°   | 833.1  | 837.5  | 837.5  | 839.8  | 841.9  | 844.2  | 844.2  | 846.4  |
| 37.5° | 777.6  | 779.7  | 782.0  | 784.3  | 788.7  | 788.7  | 788.7  | 788.7  |
| 40°   | 717.6  | 719.8  | 724.2  | 722.0  | 730.9  | 733.1  | 730.9  | 730.9  |
| 42.5° | 655.4  | 659.8  | 662.0  | 666.4  | 668.7  | 673.1  | 675.4  | 675.4  |
| 45°   | 597.6  | 599.9  | 604.2  | 608.8  | 610.9  | 617.6  | 617.6  | 617.6  |
| 47.5° | 537.7  | 542.1  | 544.3  | 548.7  | 551.0  | 557.6  | 559.8  | 557.6  |
| 50°   | 479.9  | 484.3  | 488.8  | 488.8  | 495.5  | 497.6  | 502.1  | 504.3  |
| 52.5° | 424.4  | 426.5  | 431.0  | 433.2  | 437.7  | 442.1  | 444.3  | 446.6  |
| 55°   | 371.0  | 373.2  | 377.6  | 377.6  | 384.3  | 386.5  | 390.9  | 390.9  |
| 57.5° | 322.1  | 324.4  | 328.8  | 326.6  | 331.0  | 335.4  | 335.4  | 333.3  |
| 60°   | 275.5  | 275.5  | 275.5  | 279.9  | 282.1  | 284.4  | 286.5  | 286.5  |
| 62.5° | 226.6  | 231.0  | 233.3  | 233.3  | 235.5  | 237.7  | 237.7  | 235.5  |
| 65°   | 182.2  | 186.6  | 188.8  | 188.8  | 191.1  | 191.1  | 191.1  | 193.3  |
| 67.5° | 137.7  | 137.7  | 137.7  | 139.9  | 137.7  | 137.7  | 137.7  | 137.7  |
| 70°   | 86.7   | 86.7   | 86.7   | 86.7   | 84.4   | 86.7   | 86.7   | 88.8   |
| 72.5° | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   |
| 75°   | 20.0   | 20.0   | 20.0   | 22.2   | 20.0   | 20.0   | 20.0   | 20.0   |
| 77.5° | 8.9    | 6.7    | 8.9    | 8.9    | 6.7    | 6.7    | 6.7    | 6.7    |
| 80°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 82.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 85°   | 0.0    | 2.3    | 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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1121 Highway 74 South  
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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(END OF REPORT)