

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: P584266

Luminaire Tested: **HCC8S30D010MB-HM82555830-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584266  
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: HCC8S30D010MB-HM82555830-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

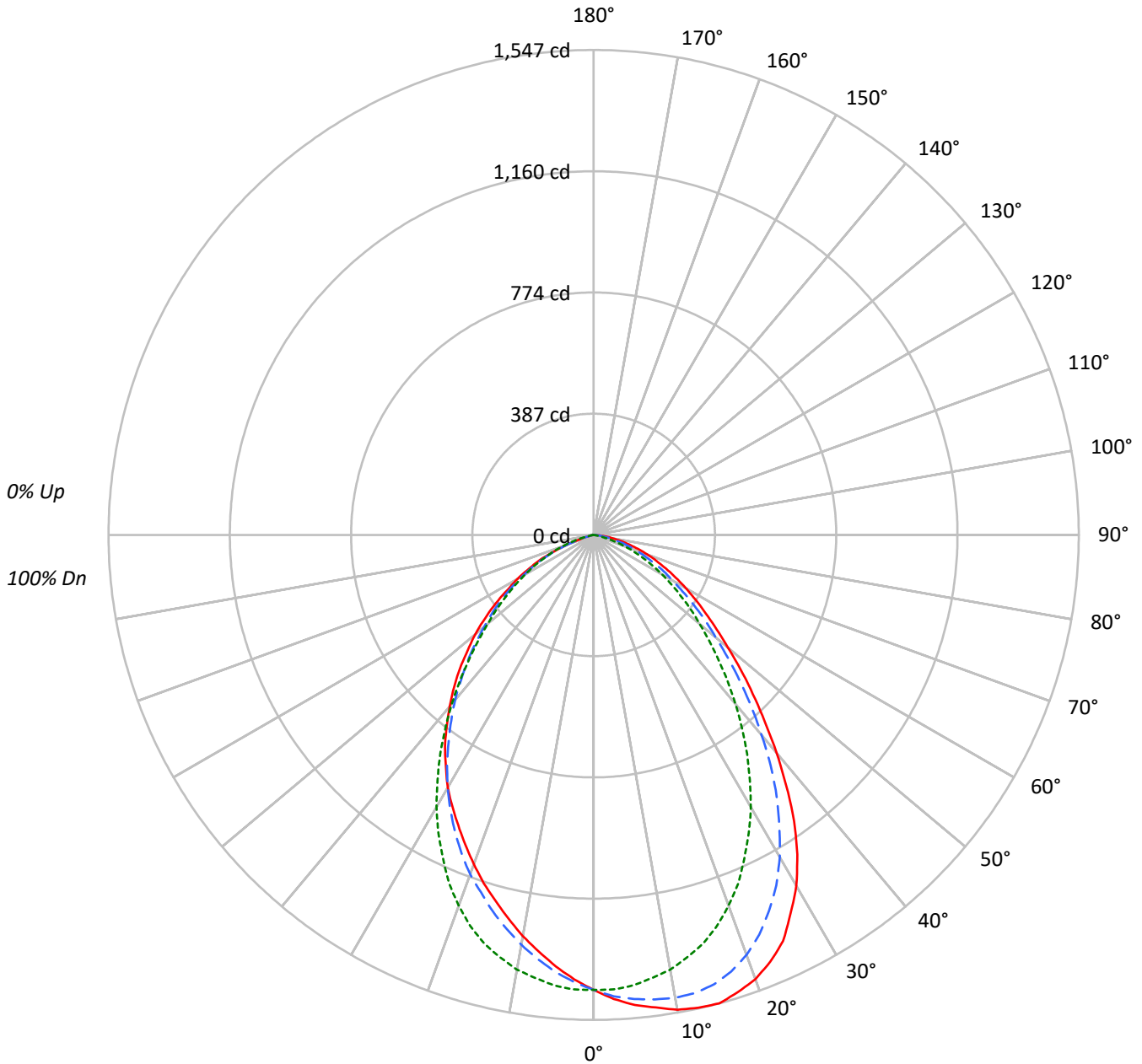
Lumens per Lamp: N/A  
Luminaire Lumens: 2703.3 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (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°  | 44753 | 44753 | 44753 |
| 5°  | 46601 | 44654 | 42775 |
| 10° | 48161 | 44084 | 40690 |
| 15° | 49380 | 43078 | 38577 |
| 20° | 49479 | 41288 | 36661 |
| 25° | 48644 | 38679 | 34766 |
| 30° | 46036 | 35685 | 33136 |
| 35° | 41973 | 32095 | 31117 |
| 40° | 36506 | 28295 | 28733 |
| 45° | 31311 | 24504 | 26301 |
| 50° | 26745 | 21127 | 23627 |
| 55° | 23440 | 18193 | 20526 |
| 60° | 20870 | 15517 | 17262 |
| 65° | 18526 | 12667 | 13768 |
| 70° | 16436 | 9395  | 7826  |
| 75° | 13701 | 4921  | 2323  |
| 80° | 10797 | 1545  | 373   |
| 85° | 7642  | 743   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.8  | 5.1       |
| 10°-20°   | 383.3  | 14.2      |
| 20°-30°   | 542.5  | 20.1      |
| 30°-40°   | 567.6  | 21.0      |
| 40°-50°   | 473.4  | 17.5      |
| 50°-60°   | 335.7  | 12.4      |
| 60°-70°   | 193.4  | 7.2       |
| 70°-80°   | 62.2   | 2.3       |
| 80°-90°   | 8.5    | 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°    | 1062.6 | 39.3      |
| 0°-40°    | 1630.1 | 60.3      |
| 0°-60°    | 2439.2 | 90.2      |
| 0°-90°    | 2703.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2703.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1451 | 1451 | 1451 | 1451 | 1451 |      |
| 5°  | 1506 | 1486 | 1443 | 1399 | 1382 | 144  |
| 15° | 1547 | 1484 | 1349 | 1243 | 1208 | 435  |
| 25° | 1430 | 1323 | 1137 | 1046 | 1022 | 652  |
| 35° | 1115 | 1017 | 853  | 807  | 827  | 691  |
| 45° | 718  | 660  | 562  | 568  | 603  | 556  |
| 55° | 436  | 390  | 338  | 356  | 382  | 394  |
| 65° | 254  | 213  | 174  | 174  | 189  | 254  |
| 75° | 115  | 85   | 41   | 20   | 20   | 125  |
| 85° | 22   | 11   | 2    | 0    | 0    | 27   |
| 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°    | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 |
| 2.5°  | 1481.7 | 1479.5 | 1477.3 | 1479.5 | 1477.3 | 1479.5 | 1477.3 | 1477.3 | 1475.2 | 1473.1 | 1473.1 |
| 5°    | 1505.5 | 1503.4 | 1503.4 | 1503.4 | 1501.2 | 1499.1 | 1499.1 | 1496.8 | 1492.6 | 1490.4 | 1486.0 |
| 7.5°  | 1520.7 | 1522.9 | 1522.9 | 1522.9 | 1518.6 | 1518.6 | 1514.2 | 1509.9 | 1505.5 | 1501.2 | 1494.7 |
| 10°   | 1538.1 | 1538.1 | 1536.0 | 1533.8 | 1529.4 | 1527.3 | 1525.1 | 1520.7 | 1514.2 | 1505.5 | 1499.1 |
| 12.5° | 1544.6 | 1544.6 | 1542.5 | 1538.1 | 1536.0 | 1533.8 | 1531.6 | 1525.1 | 1516.5 | 1505.5 | 1496.8 |
| 15°   | 1546.8 | 1542.5 | 1540.2 | 1538.1 | 1533.8 | 1527.3 | 1527.3 | 1518.6 | 1507.8 | 1494.7 | 1483.9 |
| 17.5° | 1529.4 | 1531.6 | 1527.3 | 1522.9 | 1516.5 | 1512.1 | 1505.5 | 1499.1 | 1486.0 | 1470.8 | 1460.0 |
| 20°   | 1507.8 | 1505.5 | 1503.4 | 1496.8 | 1488.2 | 1486.0 | 1479.5 | 1468.7 | 1457.8 | 1440.5 | 1425.3 |
| 22.5° | 1473.1 | 1470.8 | 1466.5 | 1462.2 | 1453.6 | 1449.2 | 1442.6 | 1429.7 | 1414.4 | 1397.1 | 1379.7 |
| 25°   | 1429.7 | 1425.3 | 1418.8 | 1410.2 | 1403.6 | 1399.2 | 1390.5 | 1377.6 | 1360.2 | 1340.7 | 1323.4 |
| 27.5° | 1360.2 | 1366.8 | 1362.4 | 1349.4 | 1342.9 | 1334.2 | 1332.0 | 1314.7 | 1299.5 | 1280.0 | 1260.5 |
| 30°   | 1292.9 | 1292.9 | 1286.5 | 1280.0 | 1269.1 | 1262.6 | 1253.9 | 1240.8 | 1225.7 | 1201.8 | 1186.6 |
| 32.5° | 1208.4 | 1206.2 | 1197.6 | 1195.3 | 1186.6 | 1173.7 | 1171.5 | 1154.2 | 1138.9 | 1121.6 | 1102.1 |
| 35°   | 1115.0 | 1110.8 | 1102.1 | 1095.5 | 1091.3 | 1084.7 | 1078.2 | 1063.0 | 1047.9 | 1030.5 | 1017.4 |
| 37.5° | 1008.7 | 1008.7 | 1006.6 | 995.8  | 991.4  | 987.1  | 980.6  | 965.3  | 956.7  | 939.3  | 926.3  |
| 40°   | 906.9  | 904.6  | 898.2  | 895.9  | 891.6  | 885.1  | 880.8  | 872.1  | 859.1  | 846.1  | 833.0  |
| 42.5° | 807.0  | 809.2  | 800.6  | 802.7  | 794.0  | 789.6  | 787.5  | 774.5  | 768.0  | 754.9  | 744.1  |
| 45°   | 718.0  | 715.9  | 711.6  | 709.4  | 705.1  | 700.7  | 696.4  | 689.9  | 679.0  | 666.0  | 659.5  |
| 47.5° | 635.6  | 629.1  | 629.1  | 627.0  | 624.8  | 616.1  | 613.9  | 607.5  | 600.9  | 588.0  | 579.3  |
| 50°   | 557.5  | 557.5  | 557.5  | 555.4  | 548.8  | 546.7  | 542.3  | 535.9  | 529.3  | 520.7  | 507.6  |
| 52.5° | 494.6  | 494.6  | 494.6  | 492.5  | 483.8  | 481.7  | 479.4  | 470.7  | 462.0  | 455.6  | 446.9  |
| 55°   | 436.0  | 438.3  | 436.0  | 431.7  | 425.2  | 425.2  | 418.6  | 414.4  | 405.7  | 399.1  | 390.5  |
| 57.5° | 386.2  | 386.2  | 381.8  | 379.6  | 375.2  | 373.1  | 368.8  | 364.4  | 353.6  | 347.1  | 336.2  |
| 60°   | 338.4  | 336.2  | 336.2  | 332.0  | 327.6  | 323.3  | 321.0  | 314.6  | 310.2  | 299.4  | 290.7  |
| 62.5° | 295.0  | 295.0  | 290.7  | 290.7  | 282.0  | 282.0  | 279.9  | 273.4  | 266.8  | 256.0  | 251.6  |
| 65°   | 253.9  | 253.9  | 251.6  | 249.5  | 243.0  | 240.8  | 238.6  | 232.1  | 225.7  | 219.1  | 212.6  |
| 67.5° | 217.0  | 217.0  | 212.6  | 210.5  | 206.1  | 203.9  | 199.6  | 195.2  | 188.7  | 182.3  | 175.7  |
| 70°   | 182.3  | 180.0  | 177.9  | 175.7  | 171.3  | 169.2  | 164.9  | 160.5  | 154.0  | 149.7  | 143.2  |
| 72.5° | 147.6  | 147.6  | 145.3  | 141.0  | 138.9  | 136.6  | 134.5  | 130.2  | 123.7  | 117.1  | 112.8  |
| 75°   | 115.0  | 115.0  | 115.0  | 110.7  | 106.3  | 104.2  | 104.2  | 99.8   | 95.5   | 88.9   | 84.7   |
| 77.5° | 88.9   | 86.8   | 84.7   | 84.7   | 80.3   | 78.1   | 76.0   | 73.7   | 67.3   | 65.0   | 60.8   |
| 80°   | 60.8   | 62.9   | 60.8   | 58.6   | 56.4   | 54.2   | 54.2   | 49.9   | 47.7   | 43.4   | 39.0   |
| 82.5° | 41.3   | 39.0   | 39.0   | 36.9   | 36.9   | 34.7   | 34.7   | 30.3   | 28.2   | 26.0   | 23.9   |
| 85°   | 21.6   | 21.6   | 19.5   | 19.5   | 19.5   | 17.4   | 17.4   | 15.2   | 15.2   | 13.0   | 10.8   |
| 87.5° | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 4.3    | 4.3    | 4.3    |
| 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°    | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 |
| 2.5°  | 1470.8 | 1466.5 | 1464.4 | 1464.4 | 1462.2 | 1460.0 | 1457.8 | 1455.7 | 1451.3 | 1451.3 | 1447.0 |
| 5°    | 1481.7 | 1477.3 | 1475.2 | 1468.7 | 1464.4 | 1464.4 | 1455.7 | 1453.6 | 1447.0 | 1442.6 | 1438.3 |
| 7.5°  | 1490.4 | 1481.7 | 1475.2 | 1468.7 | 1464.4 | 1460.0 | 1451.3 | 1442.6 | 1433.9 | 1425.3 | 1421.0 |
| 10°   | 1490.4 | 1481.7 | 1470.8 | 1460.0 | 1455.7 | 1451.3 | 1440.5 | 1427.5 | 1416.6 | 1407.9 | 1397.1 |
| 12.5° | 1486.0 | 1473.1 | 1460.0 | 1451.3 | 1442.6 | 1436.2 | 1423.1 | 1410.2 | 1397.1 | 1379.7 | 1371.0 |
| 15°   | 1473.1 | 1455.7 | 1442.6 | 1427.5 | 1421.0 | 1410.2 | 1399.2 | 1379.7 | 1364.5 | 1349.4 | 1338.6 |
| 17.5° | 1447.0 | 1425.3 | 1410.2 | 1394.9 | 1384.1 | 1377.6 | 1360.2 | 1342.9 | 1325.5 | 1308.1 | 1295.2 |
| 20°   | 1407.9 | 1388.4 | 1371.0 | 1351.5 | 1342.9 | 1334.2 | 1312.5 | 1295.2 | 1277.8 | 1258.2 | 1245.2 |
| 22.5° | 1360.2 | 1340.7 | 1316.8 | 1301.6 | 1288.6 | 1277.8 | 1258.2 | 1238.7 | 1221.3 | 1204.0 | 1186.6 |
| 25°   | 1301.6 | 1282.1 | 1260.5 | 1236.6 | 1227.9 | 1217.1 | 1195.3 | 1175.8 | 1156.3 | 1136.8 | 1121.6 |
| 27.5° | 1238.7 | 1212.7 | 1195.3 | 1169.3 | 1160.6 | 1149.8 | 1125.9 | 1104.2 | 1086.9 | 1071.6 | 1054.3 |
| 30°   | 1162.8 | 1143.2 | 1119.4 | 1095.5 | 1086.9 | 1076.0 | 1056.5 | 1036.9 | 1019.6 | 1002.2 | 984.8  |
| 32.5° | 1080.3 | 1060.8 | 1036.9 | 1019.6 | 1006.6 | 997.9  | 978.4  | 961.1  | 943.7  | 926.3  | 911.1  |
| 35°   | 993.5  | 971.9  | 954.5  | 937.2  | 926.3  | 915.5  | 895.9  | 880.8  | 867.7  | 852.6  | 837.4  |
| 37.5° | 904.6  | 889.5  | 872.1  | 852.6  | 841.7  | 833.0  | 817.9  | 800.6  | 789.6  | 776.7  | 765.8  |
| 40°   | 817.9  | 800.6  | 785.3  | 768.0  | 759.3  | 752.8  | 737.5  | 724.6  | 713.8  | 702.9  | 696.4  |
| 42.5° | 729.0  | 713.8  | 698.5  | 687.7  | 681.2  | 674.6  | 663.8  | 648.6  | 642.2  | 631.2  | 624.8  |
| 45°   | 646.5  | 633.5  | 622.6  | 607.5  | 603.1  | 598.8  | 585.7  | 574.9  | 568.3  | 561.9  | 557.5  |
| 47.5° | 568.3  | 559.7  | 546.7  | 538.0  | 531.5  | 527.2  | 518.5  | 509.8  | 503.3  | 498.9  | 494.6  |
| 50°   | 501.2  | 490.2  | 481.7  | 473.0  | 468.6  | 462.0  | 453.4  | 449.1  | 444.7  | 440.4  | 440.4  |
| 52.5° | 438.3  | 427.3  | 418.6  | 412.2  | 407.8  | 403.5  | 397.0  | 394.9  | 390.5  | 390.5  | 388.3  |
| 55°   | 379.6  | 373.1  | 364.4  | 355.7  | 353.6  | 351.5  | 347.1  | 342.8  | 340.6  | 338.4  | 340.6  |
| 57.5° | 329.7  | 323.3  | 314.6  | 308.1  | 305.9  | 303.7  | 301.5  | 297.2  | 295.0  | 295.0  | 295.0  |
| 60°   | 284.2  | 277.6  | 271.2  | 264.7  | 264.7  | 260.3  | 258.1  | 256.0  | 253.9  | 251.6  | 251.6  |
| 62.5° | 243.0  | 236.5  | 230.0  | 225.7  | 223.4  | 221.3  | 217.0  | 214.7  | 212.6  | 212.6  | 210.5  |
| 65°   | 206.1  | 197.4  | 195.2  | 188.7  | 186.6  | 184.4  | 182.3  | 177.9  | 175.7  | 173.6  | 171.3  |
| 67.5° | 169.2  | 164.9  | 158.4  | 154.0  | 151.8  | 149.7  | 147.6  | 143.2  | 141.0  | 138.9  | 134.5  |
| 70°   | 136.6  | 132.3  | 127.9  | 123.7  | 121.5  | 119.4  | 115.0  | 110.7  | 108.4  | 104.2  | 97.6   |
| 72.5° | 106.3  | 102.0  | 97.6   | 93.3   | 91.1   | 88.9   | 84.7   | 80.3   | 76.0   | 71.6   | 67.3   |
| 75°   | 80.3   | 76.0   | 69.4   | 65.0   | 62.9   | 62.9   | 56.4   | 52.1   | 47.7   | 41.3   | 36.9   |
| 77.5° | 56.4   | 49.9   | 47.7   | 43.4   | 41.3   | 36.9   | 32.6   | 28.2   | 23.9   | 21.6   | 17.4   |
| 80°   | 36.9   | 32.6   | 28.2   | 26.0   | 23.9   | 21.6   | 19.5   | 15.2   | 10.8   | 8.7    | 6.5    |
| 82.5° | 21.6   | 19.5   | 17.4   | 15.2   | 13.0   | 10.8   | 8.7    | 8.7    | 6.5    | 4.3    | 2.1    |
| 85°   | 10.8   | 8.7    | 6.5    | 6.5    | 4.3    | 4.3    | 4.3    | 2.1    | 2.1    | 2.1    | 2.1    |
| 87.5° | 4.3    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 |
| 2.5°  | 1444.9 | 1442.6 | 1440.5 | 1438.3 | 1438.3 | 1433.9 | 1433.9 | 1431.8 | 1427.5 | 1425.3 | 1425.3 |
| 5°    | 1431.8 | 1425.3 | 1421.0 | 1418.8 | 1416.6 | 1410.2 | 1407.9 | 1403.6 | 1399.2 | 1394.9 | 1392.8 |
| 7.5°  | 1412.3 | 1401.5 | 1397.1 | 1394.9 | 1388.4 | 1381.9 | 1377.6 | 1371.0 | 1364.5 | 1358.1 | 1355.8 |
| 10°   | 1388.4 | 1377.6 | 1366.8 | 1362.4 | 1355.8 | 1351.5 | 1342.9 | 1334.2 | 1327.6 | 1321.2 | 1314.7 |
| 12.5° | 1358.1 | 1345.0 | 1334.2 | 1329.9 | 1323.4 | 1314.7 | 1301.6 | 1297.3 | 1286.5 | 1282.1 | 1273.4 |
| 15°   | 1323.4 | 1308.1 | 1297.3 | 1290.8 | 1284.2 | 1271.3 | 1262.6 | 1253.9 | 1243.1 | 1238.7 | 1230.0 |
| 17.5° | 1280.0 | 1262.6 | 1251.8 | 1245.2 | 1240.8 | 1230.0 | 1217.1 | 1206.2 | 1195.3 | 1191.0 | 1184.5 |
| 20°   | 1227.9 | 1217.1 | 1201.8 | 1195.3 | 1191.0 | 1177.9 | 1165.0 | 1160.6 | 1151.9 | 1143.2 | 1136.8 |
| 22.5° | 1169.3 | 1158.4 | 1143.2 | 1136.8 | 1134.5 | 1123.7 | 1112.9 | 1106.4 | 1099.8 | 1093.4 | 1086.9 |
| 25°   | 1108.5 | 1095.5 | 1082.6 | 1078.2 | 1073.9 | 1065.2 | 1056.5 | 1052.1 | 1045.6 | 1041.3 | 1036.9 |
| 27.5° | 1043.5 | 1030.5 | 1019.6 | 1013.1 | 1008.7 | 1002.2 | 997.9  | 993.5  | 989.2  | 984.8  | 982.7  |
| 30°   | 974.0  | 961.1  | 952.4  | 948.0  | 943.7  | 941.6  | 935.0  | 932.9  | 930.6  | 926.3  | 928.5  |
| 32.5° | 904.6  | 893.8  | 885.1  | 878.6  | 878.6  | 874.3  | 872.1  | 872.1  | 869.9  | 869.9  | 869.9  |
| 35°   | 828.7  | 822.2  | 815.7  | 813.5  | 811.4  | 809.2  | 807.0  | 809.2  | 807.0  | 809.2  | 811.4  |
| 37.5° | 759.3  | 752.8  | 748.5  | 746.2  | 744.1  | 746.2  | 744.1  | 744.1  | 746.2  | 750.6  | 752.8  |
| 40°   | 687.7  | 683.3  | 679.0  | 681.2  | 679.0  | 679.0  | 679.0  | 685.6  | 687.7  | 689.9  | 692.0  |
| 42.5° | 620.4  | 616.1  | 613.9  | 613.9  | 616.1  | 613.9  | 618.3  | 620.4  | 624.8  | 631.2  | 635.6  |
| 45°   | 555.4  | 553.2  | 553.2  | 555.4  | 553.2  | 557.5  | 557.5  | 561.9  | 568.3  | 572.7  | 577.0  |
| 47.5° | 494.6  | 494.6  | 494.6  | 496.8  | 496.8  | 498.9  | 503.3  | 505.4  | 509.8  | 514.1  | 518.5  |
| 50°   | 438.3  | 440.4  | 442.5  | 442.5  | 442.5  | 446.9  | 451.2  | 453.4  | 455.6  | 457.8  | 464.3  |
| 52.5° | 388.3  | 390.5  | 390.5  | 392.6  | 394.9  | 397.0  | 399.1  | 403.5  | 405.7  | 410.0  | 412.2  |
| 55°   | 340.6  | 340.6  | 344.9  | 347.1  | 347.1  | 347.1  | 351.5  | 351.5  | 355.7  | 358.0  | 362.3  |
| 57.5° | 295.0  | 297.2  | 297.2  | 299.4  | 299.4  | 301.5  | 303.7  | 305.9  | 308.1  | 310.2  | 312.4  |
| 60°   | 251.6  | 251.6  | 251.6  | 253.9  | 256.0  | 258.1  | 256.0  | 260.3  | 260.3  | 264.7  | 266.8  |
| 62.5° | 210.5  | 212.6  | 212.6  | 212.6  | 212.6  | 212.6  | 212.6  | 214.7  | 217.0  | 219.1  | 221.3  |
| 65°   | 171.3  | 171.3  | 171.3  | 169.2  | 171.3  | 169.2  | 171.3  | 173.6  | 173.6  | 175.7  | 177.9  |
| 67.5° | 132.3  | 132.3  | 127.9  | 127.9  | 130.2  | 130.2  | 130.2  | 130.2  | 127.9  | 132.3  | 132.3  |
| 70°   | 95.5   | 93.3   | 91.1   | 88.9   | 88.9   | 86.8   | 86.8   | 84.7   | 84.7   | 84.7   | 84.7   |
| 72.5° | 62.9   | 58.6   | 54.2   | 52.1   | 49.9   | 49.9   | 45.5   | 43.4   | 45.5   | 45.5   | 45.5   |
| 75°   | 32.6   | 28.2   | 26.0   | 23.9   | 21.6   | 21.6   | 19.5   | 19.5   | 19.5   | 19.5   | 19.5   |
| 77.5° | 13.0   | 10.8   | 8.7    | 8.7    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    |
| 80°   | 4.3    | 4.3    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 2.1    | 0.0    | 0.0    | 2.1    | 0.0    | 2.1    | 2.1    | 2.1    | 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: P584266

CATALOG NUMBER: HCC8S30D010MB-HM82555830-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 | 1451.3 |
| 2.5°  | 1423.1 | 1423.1 | 1421.0 | 1423.1 | 1418.8 | 1421.0 | 1418.8 | 1418.8 |
| 5°    | 1390.5 | 1386.3 | 1386.3 | 1386.3 | 1384.1 | 1384.1 | 1381.9 | 1381.9 |
| 7.5°  | 1351.5 | 1349.4 | 1347.1 | 1345.0 | 1342.9 | 1340.7 | 1340.7 | 1340.7 |
| 10°   | 1312.5 | 1308.1 | 1308.1 | 1306.0 | 1301.6 | 1299.5 | 1299.5 | 1299.5 |
| 12.5° | 1266.9 | 1264.7 | 1262.6 | 1262.6 | 1253.9 | 1256.1 | 1253.9 | 1253.9 |
| 15°   | 1223.5 | 1221.3 | 1221.3 | 1214.9 | 1210.5 | 1210.5 | 1210.5 | 1208.4 |
| 17.5° | 1177.9 | 1175.8 | 1173.7 | 1169.3 | 1165.0 | 1165.0 | 1162.8 | 1165.0 |
| 20°   | 1130.3 | 1128.1 | 1123.7 | 1123.7 | 1121.6 | 1119.4 | 1115.0 | 1117.2 |
| 22.5° | 1082.6 | 1078.2 | 1076.0 | 1076.0 | 1073.9 | 1073.9 | 1069.5 | 1069.5 |
| 25°   | 1032.6 | 1030.5 | 1028.2 | 1030.5 | 1026.1 | 1026.1 | 1021.8 | 1021.8 |
| 27.5° | 980.6  | 978.4  | 978.4  | 978.4  | 976.3  | 978.4  | 976.3  | 976.3  |
| 30°   | 928.5  | 928.5  | 926.3  | 926.3  | 928.5  | 926.3  | 928.5  | 930.6  |
| 32.5° | 872.1  | 872.1  | 874.3  | 874.3  | 876.4  | 876.4  | 876.4  | 876.4  |
| 35°   | 813.5  | 817.9  | 817.9  | 820.1  | 822.2  | 824.3  | 824.3  | 826.6  |
| 37.5° | 759.3  | 761.4  | 763.6  | 765.8  | 770.1  | 770.1  | 770.1  | 770.1  |
| 40°   | 700.7  | 702.9  | 707.2  | 705.1  | 713.8  | 715.9  | 713.8  | 713.8  |
| 42.5° | 639.9  | 644.3  | 646.5  | 650.9  | 653.0  | 657.3  | 659.5  | 659.5  |
| 45°   | 583.6  | 585.7  | 590.1  | 594.4  | 596.6  | 603.1  | 603.1  | 603.1  |
| 47.5° | 524.9  | 529.3  | 531.5  | 535.9  | 538.0  | 544.6  | 546.7  | 544.6  |
| 50°   | 468.6  | 473.0  | 477.3  | 477.3  | 483.8  | 485.9  | 490.2  | 492.5  |
| 52.5° | 414.4  | 416.5  | 420.9  | 423.0  | 427.3  | 431.7  | 433.9  | 436.0  |
| 55°   | 362.3  | 364.4  | 368.8  | 368.8  | 375.2  | 377.5  | 381.8  | 381.8  |
| 57.5° | 314.6  | 316.7  | 321.0  | 318.9  | 323.3  | 327.6  | 327.6  | 325.4  |
| 60°   | 269.0  | 269.0  | 269.0  | 273.4  | 275.5  | 277.6  | 279.9  | 279.9  |
| 62.5° | 221.3  | 225.7  | 227.8  | 227.8  | 230.0  | 232.1  | 232.1  | 230.0  |
| 65°   | 177.9  | 182.3  | 184.4  | 184.4  | 186.6  | 186.6  | 186.6  | 188.7  |
| 67.5° | 134.5  | 134.5  | 134.5  | 136.6  | 134.5  | 134.5  | 134.5  | 134.5  |
| 70°   | 84.7   | 84.7   | 84.7   | 84.7   | 82.4   | 84.7   | 84.7   | 86.8   |
| 72.5° | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   |
| 75°   | 19.5   | 19.5   | 19.5   | 21.6   | 19.5   | 19.5   | 19.5   | 19.5   |
| 77.5° | 8.7    | 6.5    | 8.7    | 8.7    | 6.5    | 6.5    | 6.5    | 6.5    |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 0.0    | 2.1    | 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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