

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: P583982

Luminaire Tested: **HCC8S20D010MB-HM80520827-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010MB-HM80520827-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

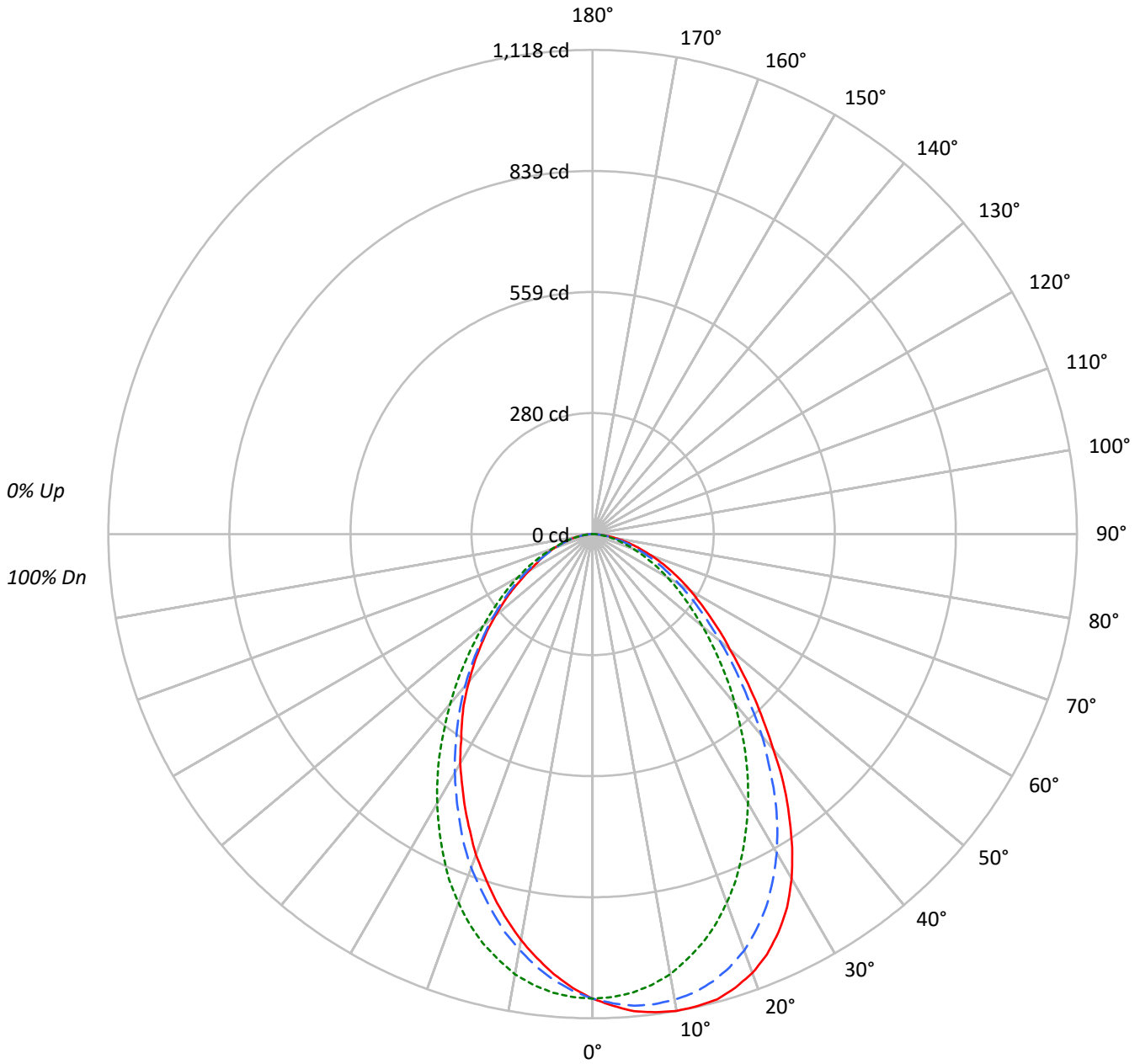
Lumens per Lamp: N/A  
Luminaire Lumens: 1979.9 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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



TEST NUMBER: P583982  
CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWW

### 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 | 50 | 30 | 10 | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |    |    |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |    |    |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    |    |   |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |    |    |    |   |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 59  | 54  | 63  | 57  | 53  | 51  |    |    |    |    |    |   |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    |    |   |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 41  |    |    |    |    |    |   |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |    |    |   |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    |    |   |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |    |    |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 33081 | 33081 | 33081 |
| 5°  | 34241 | 32892 | 31586 |
| 10° | 35004 | 32314 | 29809 |
| 15° | 35503 | 31228 | 27838 |
| 20° | 35395 | 29711 | 25839 |
| 25° | 34521 | 27784 | 23725 |
| 30° | 32705 | 25551 | 21766 |
| 35° | 29754 | 23125 | 19782 |
| 40° | 26133 | 20570 | 17873 |
| 45° | 22790 | 18093 | 15935 |
| 50° | 19827 | 15850 | 14032 |
| 55° | 17688 | 13930 | 12209 |
| 60° | 16066 | 12211 | 10417 |
| 65° | 14447 | 10616 | 9449  |
| 70° | 12866 | 9061  | 8529  |
| 75° | 11271 | 7637  | 7280  |
| 80° | 9572  | 6215  | 6464  |
| 85° | 7182  | 4635  | 5130  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.5  | 5.1       |
| 10°-20°   | 276.9  | 14.0      |
| 20°-30°   | 384.3  | 19.4      |
| 30°-40°   | 397.3  | 20.1      |
| 40°-50°   | 332.7  | 16.8      |
| 50°-60°   | 241.5  | 12.2      |
| 60°-70°   | 152.4  | 7.7       |
| 70°-80°   | 75.5   | 3.8       |
| 80°-90°   | 18.8   | 0.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 761.7  | 38.5      |
| 0°-40°    | 1159.0 | 58.5      |
| 0°-60°    | 1733.2 | 87.5      |
| 0°-90°    | 1979.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1979.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1073 | 1073 | 1073 | 1073 | 1073 |      |
| 5°  | 1106 | 1093 | 1063 | 1034 | 1020 | 106  |
| 15° | 1112 | 1070 | 978  | 900  | 872  | 313  |
| 25° | 1015 | 949  | 817  | 728  | 697  | 465  |
| 35° | 790  | 732  | 614  | 544  | 526  | 492  |
| 45° | 523  | 485  | 415  | 374  | 365  | 404  |
| 55° | 329  | 300  | 259  | 237  | 227  | 297  |
| 65° | 198  | 173  | 146  | 128  | 130  | 197  |
| 75° | 95   | 79   | 64   | 61   | 61   | 102  |
| 85° | 20   | 16   | 13   | 14   | 14   | 25   |
| 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°    | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 |
| 2.5°  | 1090.3 | 1090.3 | 1091.7 | 1090.3 | 1090.3 | 1090.3 | 1088.9 | 1088.9 | 1087.3 | 1087.3 | 1084.5 |
| 5°    | 1106.2 | 1103.4 | 1106.2 | 1103.4 | 1103.4 | 1103.4 | 1101.9 | 1099.0 | 1097.5 | 1094.7 | 1093.2 |
| 7.5°  | 1113.6 | 1112.1 | 1112.1 | 1110.6 | 1110.6 | 1109.2 | 1107.8 | 1106.2 | 1100.4 | 1099.0 | 1094.7 |
| 10°   | 1117.9 | 1116.5 | 1116.5 | 1115.0 | 1112.1 | 1112.1 | 1109.2 | 1107.8 | 1100.4 | 1097.5 | 1091.7 |
| 12.5° | 1116.5 | 1116.5 | 1116.5 | 1115.0 | 1110.6 | 1109.2 | 1106.2 | 1101.9 | 1096.1 | 1090.3 | 1084.5 |
| 15°   | 1112.1 | 1112.1 | 1109.2 | 1107.8 | 1103.4 | 1100.4 | 1099.0 | 1091.7 | 1085.9 | 1078.6 | 1069.8 |
| 17.5° | 1097.5 | 1097.5 | 1096.1 | 1093.2 | 1088.9 | 1085.9 | 1082.9 | 1075.7 | 1069.8 | 1058.2 | 1049.5 |
| 20°   | 1078.6 | 1077.2 | 1075.7 | 1071.4 | 1067.0 | 1065.6 | 1061.2 | 1050.9 | 1043.7 | 1035.0 | 1023.3 |
| 22.5° | 1050.9 | 1049.5 | 1048.1 | 1045.1 | 1037.9 | 1035.0 | 1032.0 | 1024.8 | 1011.7 | 1002.9 | 988.4  |
| 25°   | 1014.6 | 1014.6 | 1011.7 | 1007.3 | 1000.0 | 997.1  | 992.8  | 985.4  | 973.8  | 960.7  | 949.0  |
| 27.5° | 972.3  | 970.9  | 966.5  | 963.6  | 957.8  | 953.4  | 946.2  | 937.4  | 925.7  | 915.6  | 901.0  |
| 30°   | 918.5  | 918.5  | 915.6  | 911.2  | 904.0  | 901.0  | 895.2  | 885.0  | 873.4  | 860.3  | 850.1  |
| 32.5° | 857.4  | 857.4  | 853.0  | 850.1  | 845.7  | 838.4  | 837.0  | 825.4  | 815.1  | 804.9  | 793.4  |
| 35°   | 790.4  | 791.8  | 789.0  | 783.1  | 775.9  | 775.9  | 772.9  | 762.7  | 751.2  | 740.9  | 732.1  |
| 37.5° | 723.5  | 719.1  | 717.6  | 714.8  | 710.4  | 704.5  | 701.6  | 697.3  | 687.1  | 679.8  | 666.6  |
| 40°   | 649.2  | 650.7  | 647.7  | 644.9  | 643.4  | 639.0  | 637.6  | 630.2  | 623.0  | 614.3  | 608.5  |
| 42.5° | 582.3  | 582.3  | 582.3  | 579.3  | 576.5  | 572.1  | 570.6  | 566.3  | 557.5  | 551.6  | 542.9  |
| 45°   | 522.6  | 518.2  | 518.2  | 516.8  | 515.2  | 512.4  | 508.0  | 505.1  | 499.3  | 494.9  | 484.7  |
| 47.5° | 464.3  | 465.8  | 464.3  | 462.9  | 458.5  | 457.1  | 455.7  | 449.8  | 444.0  | 439.6  | 432.4  |
| 50°   | 413.3  | 416.3  | 413.3  | 413.3  | 410.5  | 409.0  | 406.1  | 401.8  | 397.4  | 390.1  | 382.8  |
| 52.5° | 371.1  | 371.1  | 369.7  | 368.3  | 363.9  | 361.0  | 359.6  | 358.0  | 350.8  | 345.0  | 339.1  |
| 55°   | 329.0  | 330.4  | 330.4  | 326.1  | 324.6  | 321.7  | 320.2  | 315.8  | 313.0  | 304.2  | 299.9  |
| 57.5° | 292.5  | 291.1  | 292.5  | 289.7  | 286.8  | 283.8  | 282.4  | 279.4  | 275.2  | 269.3  | 263.5  |
| 60°   | 260.5  | 257.7  | 257.7  | 256.1  | 253.3  | 251.8  | 248.9  | 244.6  | 240.2  | 234.4  | 230.0  |
| 62.5° | 228.5  | 227.1  | 225.6  | 224.2  | 221.3  | 219.9  | 218.3  | 213.9  | 209.6  | 205.2  | 200.8  |
| 65°   | 198.0  | 198.0  | 196.6  | 193.6  | 192.2  | 190.7  | 189.2  | 186.3  | 180.5  | 177.5  | 173.2  |
| 67.5° | 170.3  | 168.9  | 168.9  | 166.0  | 163.0  | 161.6  | 161.6  | 158.6  | 154.3  | 149.9  | 147.0  |
| 70°   | 142.7  | 144.1  | 142.7  | 141.2  | 138.3  | 138.3  | 135.3  | 133.9  | 128.1  | 126.6  | 122.2  |
| 72.5° | 118.0  | 118.0  | 116.4  | 116.4  | 113.6  | 112.1  | 112.1  | 109.2  | 106.3  | 103.3  | 100.5  |
| 75°   | 94.6   | 94.6   | 94.6   | 93.1   | 91.7   | 88.8   | 88.8   | 87.3   | 84.4   | 81.6   | 78.6   |
| 77.5° | 74.2   | 72.8   | 72.8   | 71.3   | 69.9   | 68.4   | 68.4   | 66.9   | 64.1   | 62.6   | 59.7   |
| 80°   | 53.9   | 52.4   | 52.4   | 52.4   | 49.5   | 50.9   | 49.5   | 48.0   | 46.6   | 45.2   | 43.6   |
| 82.5° | 35.0   | 36.4   | 36.4   | 35.0   | 33.5   | 33.5   | 33.5   | 32.0   | 32.0   | 30.6   | 29.1   |
| 85°   | 20.3   | 20.3   | 20.3   | 20.3   | 18.9   | 18.9   | 18.9   | 17.5   | 17.5   | 17.5   | 16.0   |
| 87.5° | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    |
| 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°    | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 |
| 2.5°  | 1084.5 | 1081.5 | 1080.1 | 1078.6 | 1078.6 | 1077.2 | 1075.7 | 1072.8 | 1072.8 | 1069.8 | 1068.4 |
| 5°    | 1090.3 | 1085.9 | 1082.9 | 1080.1 | 1078.6 | 1075.7 | 1072.8 | 1068.4 | 1067.0 | 1062.6 | 1058.2 |
| 7.5°  | 1091.7 | 1084.5 | 1081.5 | 1075.7 | 1072.8 | 1069.8 | 1064.0 | 1059.7 | 1053.9 | 1049.5 | 1043.7 |
| 10°   | 1085.9 | 1080.1 | 1072.8 | 1065.6 | 1064.0 | 1059.7 | 1050.9 | 1045.1 | 1037.9 | 1032.0 | 1023.3 |
| 12.5° | 1077.2 | 1068.4 | 1061.2 | 1052.5 | 1048.1 | 1043.7 | 1035.0 | 1026.2 | 1016.0 | 1005.9 | 997.1  |
| 15°   | 1062.6 | 1052.5 | 1042.3 | 1032.0 | 1026.2 | 1021.8 | 1011.7 | 1001.5 | 991.2  | 978.2  | 969.5  |
| 17.5° | 1040.8 | 1029.2 | 1018.9 | 1005.9 | 1000.0 | 995.6  | 982.6  | 970.9  | 957.8  | 944.7  | 936.0  |
| 20°   | 1013.1 | 998.6  | 987.0  | 972.3  | 967.9  | 960.7  | 947.6  | 934.5  | 920.0  | 905.4  | 895.2  |
| 22.5° | 976.7  | 962.1  | 949.0  | 934.5  | 927.3  | 920.0  | 906.8  | 890.9  | 876.3  | 864.6  | 854.5  |
| 25°   | 934.5  | 921.4  | 905.4  | 892.3  | 883.5  | 874.8  | 860.3  | 847.1  | 834.0  | 816.6  | 806.4  |
| 27.5° | 887.9  | 872.0  | 860.3  | 842.8  | 834.0  | 828.2  | 812.3  | 794.8  | 783.1  | 767.1  | 755.4  |
| 30°   | 835.6  | 821.0  | 807.9  | 790.4  | 781.7  | 775.9  | 761.3  | 745.3  | 733.7  | 717.6  | 706.0  |
| 32.5° | 780.2  | 764.2  | 748.2  | 736.5  | 726.3  | 720.5  | 704.5  | 694.3  | 679.8  | 666.6  | 653.5  |
| 35°   | 720.5  | 704.5  | 692.9  | 676.8  | 671.0  | 665.2  | 652.1  | 639.0  | 625.9  | 614.3  | 604.1  |
| 37.5° | 656.5  | 644.9  | 631.8  | 620.1  | 615.7  | 609.9  | 593.8  | 582.3  | 572.1  | 560.4  | 551.6  |
| 40°   | 593.8  | 583.7  | 574.9  | 563.3  | 556.0  | 551.6  | 540.1  | 529.9  | 518.2  | 511.0  | 502.2  |
| 42.5° | 537.1  | 525.5  | 516.8  | 508.0  | 500.7  | 496.3  | 486.2  | 478.9  | 470.2  | 462.9  | 452.7  |
| 45°   | 477.4  | 471.6  | 461.5  | 454.1  | 449.8  | 444.0  | 436.6  | 428.0  | 420.7  | 414.9  | 407.6  |
| 47.5° | 425.0  | 419.3  | 411.9  | 403.2  | 400.3  | 396.0  | 388.6  | 382.8  | 377.1  | 371.1  | 363.9  |
| 50°   | 377.1  | 369.7  | 363.9  | 358.0  | 355.2  | 350.8  | 343.5  | 340.7  | 336.3  | 330.4  | 326.1  |
| 52.5° | 333.3  | 327.5  | 321.7  | 314.4  | 313.0  | 310.0  | 305.7  | 299.9  | 295.5  | 292.5  | 289.7  |
| 55°   | 294.1  | 288.2  | 283.8  | 278.0  | 276.6  | 273.6  | 267.8  | 264.9  | 262.0  | 259.1  | 256.1  |
| 57.5° | 259.1  | 253.3  | 247.5  | 244.6  | 241.6  | 238.8  | 237.2  | 232.9  | 230.0  | 228.5  | 225.6  |
| 60°   | 227.1  | 221.3  | 216.9  | 212.5  | 211.1  | 209.6  | 206.7  | 203.8  | 200.8  | 198.0  | 196.6  |
| 62.5° | 196.6  | 190.7  | 187.8  | 184.9  | 181.9  | 181.9  | 179.1  | 176.1  | 173.2  | 171.7  | 168.9  |
| 65°   | 168.9  | 166.0  | 161.6  | 157.2  | 155.8  | 155.8  | 151.4  | 149.9  | 148.5  | 145.5  | 142.7  |
| 67.5° | 142.7  | 139.7  | 135.3  | 133.9  | 132.5  | 131.0  | 129.5  | 126.6  | 123.8  | 122.2  | 119.4  |
| 70°   | 119.4  | 116.4  | 113.6  | 112.1  | 110.6  | 109.2  | 106.3  | 104.8  | 101.9  | 100.5  | 98.9   |
| 72.5° | 96.1   | 94.6   | 91.7   | 90.3   | 88.8   | 87.3   | 85.9   | 84.4   | 81.6   | 80.0   | 78.6   |
| 75°   | 77.2   | 75.6   | 72.8   | 71.3   | 69.9   | 69.9   | 68.4   | 65.5   | 64.1   | 64.1   | 62.6   |
| 77.5° | 58.3   | 56.7   | 55.3   | 53.9   | 52.4   | 52.4   | 50.9   | 49.5   | 48.0   | 48.0   | 46.6   |
| 80°   | 42.2   | 40.8   | 39.4   | 39.4   | 39.4   | 37.8   | 36.4   | 36.4   | 35.0   | 35.0   | 33.5   |
| 82.5° | 27.7   | 27.7   | 26.2   | 26.2   | 26.2   | 24.7   | 24.7   | 23.3   | 23.3   | 23.3   | 23.3   |
| 85°   | 16.0   | 16.0   | 16.0   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 13.1   | 14.5   |
| 87.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 5.8    | 5.8    | 5.8    |
| 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: P583982

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 |
| 2.5°  | 1067.0 | 1065.6 | 1062.6 | 1062.6 | 1059.7 | 1059.7 | 1058.2 | 1056.8 | 1055.3 | 1053.9 | 1052.5 |
| 5°    | 1056.8 | 1050.9 | 1048.1 | 1046.5 | 1043.7 | 1042.3 | 1037.9 | 1035.0 | 1033.5 | 1030.6 | 1027.6 |
| 7.5°  | 1037.9 | 1032.0 | 1026.2 | 1024.8 | 1023.3 | 1017.5 | 1013.1 | 1008.7 | 1005.9 | 1002.9 | 1000.0 |
| 10°   | 1016.0 | 1010.3 | 1002.9 | 1000.0 | 997.1  | 989.8  | 984.0  | 979.6  | 973.8  | 967.9  | 966.5  |
| 12.5° | 989.8  | 981.1  | 972.3  | 969.5  | 965.1  | 957.8  | 952.0  | 944.7  | 940.3  | 933.1  | 931.7  |
| 15°   | 959.3  | 949.0  | 941.8  | 934.5  | 931.7  | 924.3  | 914.2  | 908.4  | 899.6  | 896.7  | 889.3  |
| 17.5° | 922.9  | 912.6  | 902.5  | 899.6  | 895.2  | 885.0  | 874.8  | 867.6  | 858.8  | 854.5  | 850.1  |
| 20°   | 885.0  | 872.0  | 861.7  | 858.8  | 853.0  | 844.3  | 834.0  | 826.8  | 819.5  | 810.7  | 806.4  |
| 22.5° | 841.3  | 826.8  | 818.1  | 810.7  | 809.3  | 799.2  | 787.4  | 781.7  | 775.9  | 768.5  | 762.7  |
| 25°   | 793.4  | 780.2  | 770.1  | 764.2  | 761.3  | 752.6  | 743.8  | 736.5  | 727.8  | 723.5  | 716.2  |
| 27.5° | 743.8  | 735.1  | 722.0  | 716.2  | 711.8  | 704.5  | 694.3  | 689.9  | 681.2  | 675.4  | 671.0  |
| 30°   | 695.8  | 682.7  | 675.4  | 668.2  | 663.8  | 656.5  | 647.7  | 643.4  | 636.2  | 630.2  | 625.9  |
| 32.5° | 643.4  | 634.6  | 624.5  | 621.5  | 615.7  | 608.5  | 602.6  | 595.4  | 589.6  | 583.7  | 582.3  |
| 35°   | 595.4  | 583.7  | 573.5  | 570.6  | 566.3  | 559.0  | 556.0  | 551.6  | 544.4  | 542.9  | 537.1  |
| 37.5° | 542.9  | 537.1  | 525.5  | 521.1  | 519.6  | 513.8  | 508.0  | 505.1  | 500.7  | 496.3  | 494.9  |
| 40°   | 493.5  | 486.2  | 480.4  | 476.0  | 473.0  | 468.7  | 462.9  | 461.5  | 458.5  | 452.7  | 451.3  |
| 42.5° | 446.9  | 439.6  | 433.8  | 432.4  | 428.0  | 423.6  | 420.7  | 416.3  | 414.9  | 413.3  | 410.5  |
| 45°   | 401.8  | 397.4  | 391.6  | 390.1  | 388.6  | 382.8  | 379.9  | 377.1  | 374.1  | 372.7  | 369.7  |
| 47.5° | 361.0  | 356.6  | 352.2  | 350.8  | 347.9  | 346.4  | 342.1  | 340.7  | 336.3  | 334.7  | 333.3  |
| 50°   | 321.7  | 318.8  | 315.8  | 314.4  | 311.5  | 310.0  | 307.1  | 304.2  | 301.3  | 299.9  | 298.5  |
| 52.5° | 286.8  | 283.8  | 281.0  | 279.4  | 278.0  | 275.2  | 272.2  | 269.3  | 267.8  | 266.4  | 264.9  |
| 55°   | 253.3  | 250.3  | 248.9  | 247.5  | 246.0  | 244.6  | 240.2  | 238.8  | 237.2  | 235.8  | 232.9  |
| 57.5° | 222.7  | 219.9  | 216.9  | 216.9  | 215.5  | 213.9  | 211.1  | 208.2  | 208.2  | 205.2  | 202.4  |
| 60°   | 195.0  | 192.2  | 189.2  | 187.8  | 186.3  | 183.4  | 181.9  | 180.5  | 179.1  | 177.5  | 174.7  |
| 62.5° | 166.0  | 164.5  | 161.6  | 161.6  | 158.6  | 157.2  | 155.8  | 154.3  | 152.8  | 149.9  | 148.5  |
| 65°   | 141.2  | 139.7  | 136.9  | 135.3  | 135.3  | 133.9  | 131.0  | 129.5  | 128.1  | 128.1  | 126.6  |
| 67.5° | 118.0  | 116.4  | 113.6  | 112.1  | 112.1  | 110.6  | 109.2  | 109.2  | 107.7  | 106.3  | 107.7  |
| 70°   | 97.5   | 94.6   | 94.6   | 93.1   | 93.1   | 91.7   | 90.3   | 90.3   | 90.3   | 91.7   | 91.7   |
| 72.5° | 77.2   | 75.6   | 74.2   | 74.2   | 74.2   | 74.2   | 72.8   | 72.8   | 74.2   | 75.6   | 75.6   |
| 75°   | 61.1   | 59.7   | 59.7   | 59.7   | 58.3   | 58.3   | 59.7   | 59.7   | 61.1   | 61.1   | 61.1   |
| 77.5° | 45.2   | 45.2   | 45.2   | 45.2   | 45.2   | 45.2   | 46.6   | 46.6   | 48.0   | 48.0   | 48.0   |
| 80°   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 35.0   | 35.0   | 35.0   | 35.0   | 35.0   | 36.4   |
| 82.5° | 23.3   | 23.3   | 23.3   | 23.3   | 23.3   | 23.3   | 23.3   | 24.7   | 24.7   | 24.7   | 24.7   |
| 85°   | 13.1   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   |
| 87.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 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: P583982

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 | 1072.8 |
| 2.5°  | 1050.9 | 1050.9 | 1050.9 | 1052.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 |
| 5°    | 1026.2 | 1024.8 | 1023.3 | 1024.8 | 1021.8 | 1021.8 | 1020.4 | 1020.4 |
| 7.5°  | 995.6  | 994.2  | 992.8  | 992.8  | 989.8  | 989.8  | 988.4  | 987.0  |
| 10°   | 962.1  | 959.3  | 960.7  | 957.8  | 956.4  | 954.9  | 953.4  | 952.0  |
| 12.5° | 925.7  | 922.9  | 921.4  | 918.5  | 915.6  | 914.2  | 915.6  | 912.6  |
| 15°   | 886.5  | 882.1  | 880.7  | 877.8  | 874.8  | 873.4  | 873.4  | 872.0  |
| 17.5° | 842.8  | 839.9  | 838.4  | 835.6  | 834.0  | 831.2  | 829.8  | 828.2  |
| 20°   | 802.1  | 794.8  | 796.2  | 793.4  | 791.8  | 786.0  | 786.0  | 787.4  |
| 22.5° | 757.0  | 752.6  | 749.6  | 746.8  | 745.3  | 742.4  | 742.4  | 740.9  |
| 25°   | 711.8  | 707.4  | 706.0  | 703.1  | 701.6  | 698.7  | 697.3  | 697.3  |
| 27.5° | 668.2  | 662.3  | 662.3  | 659.4  | 656.5  | 655.1  | 653.5  | 652.1  |
| 30°   | 621.5  | 617.2  | 615.7  | 615.7  | 614.3  | 614.3  | 609.9  | 611.3  |
| 32.5° | 577.9  | 574.9  | 573.5  | 570.6  | 570.6  | 569.1  | 569.1  | 564.8  |
| 35°   | 534.3  | 529.9  | 531.3  | 528.4  | 526.9  | 525.5  | 526.9  | 525.5  |
| 37.5° | 491.9  | 489.1  | 489.1  | 486.2  | 486.2  | 484.7  | 483.3  | 486.2  |
| 40°   | 449.8  | 448.3  | 446.9  | 445.4  | 446.9  | 445.4  | 442.5  | 444.0  |
| 42.5° | 407.6  | 407.6  | 406.1  | 406.1  | 404.7  | 404.7  | 404.7  | 404.7  |
| 45°   | 369.7  | 368.3  | 368.3  | 366.8  | 366.8  | 366.8  | 366.8  | 365.4  |
| 47.5° | 331.9  | 330.4  | 330.4  | 330.4  | 329.0  | 329.0  | 327.5  | 329.0  |
| 50°   | 295.5  | 295.5  | 294.1  | 294.1  | 295.5  | 294.1  | 292.5  | 292.5  |
| 52.5° | 262.0  | 262.0  | 260.5  | 260.5  | 259.1  | 257.7  | 259.1  | 259.1  |
| 55°   | 231.4  | 230.0  | 228.5  | 228.5  | 227.1  | 225.6  | 225.6  | 227.1  |
| 57.5° | 202.4  | 200.8  | 199.4  | 199.4  | 196.6  | 195.0  | 195.0  | 195.0  |
| 60°   | 174.7  | 171.7  | 171.7  | 170.3  | 170.3  | 168.9  | 168.9  | 168.9  |
| 62.5° | 148.5  | 147.0  | 147.0  | 147.0  | 147.0  | 145.5  | 145.5  | 145.5  |
| 65°   | 126.6  | 126.6  | 126.6  | 128.1  | 128.1  | 129.5  | 129.5  | 129.5  |
| 67.5° | 109.2  | 110.6  | 110.6  | 110.6  | 112.1  | 112.1  | 112.1  | 110.6  |
| 70°   | 93.1   | 93.1   | 93.1   | 94.6   | 94.6   | 94.6   | 94.6   | 94.6   |
| 72.5° | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   |
| 75°   | 61.1   | 62.6   | 62.6   | 62.6   | 61.1   | 62.6   | 62.6   | 61.1   |
| 77.5° | 48.0   | 48.0   | 48.0   | 48.0   | 48.0   | 48.0   | 48.0   | 48.0   |
| 80°   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   |
| 82.5° | 24.7   | 24.7   | 24.7   | 24.7   | 24.7   | 24.7   | 24.7   | 24.7   |
| 85°   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   |
| 87.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 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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Cooper Lighting Solutions Photometric Lab  
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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Scaled Data Report



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