

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: P575619

Luminaire Tested: **HCC8W20D010MB-HM80520835-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P575619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010MB-HM80520835-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

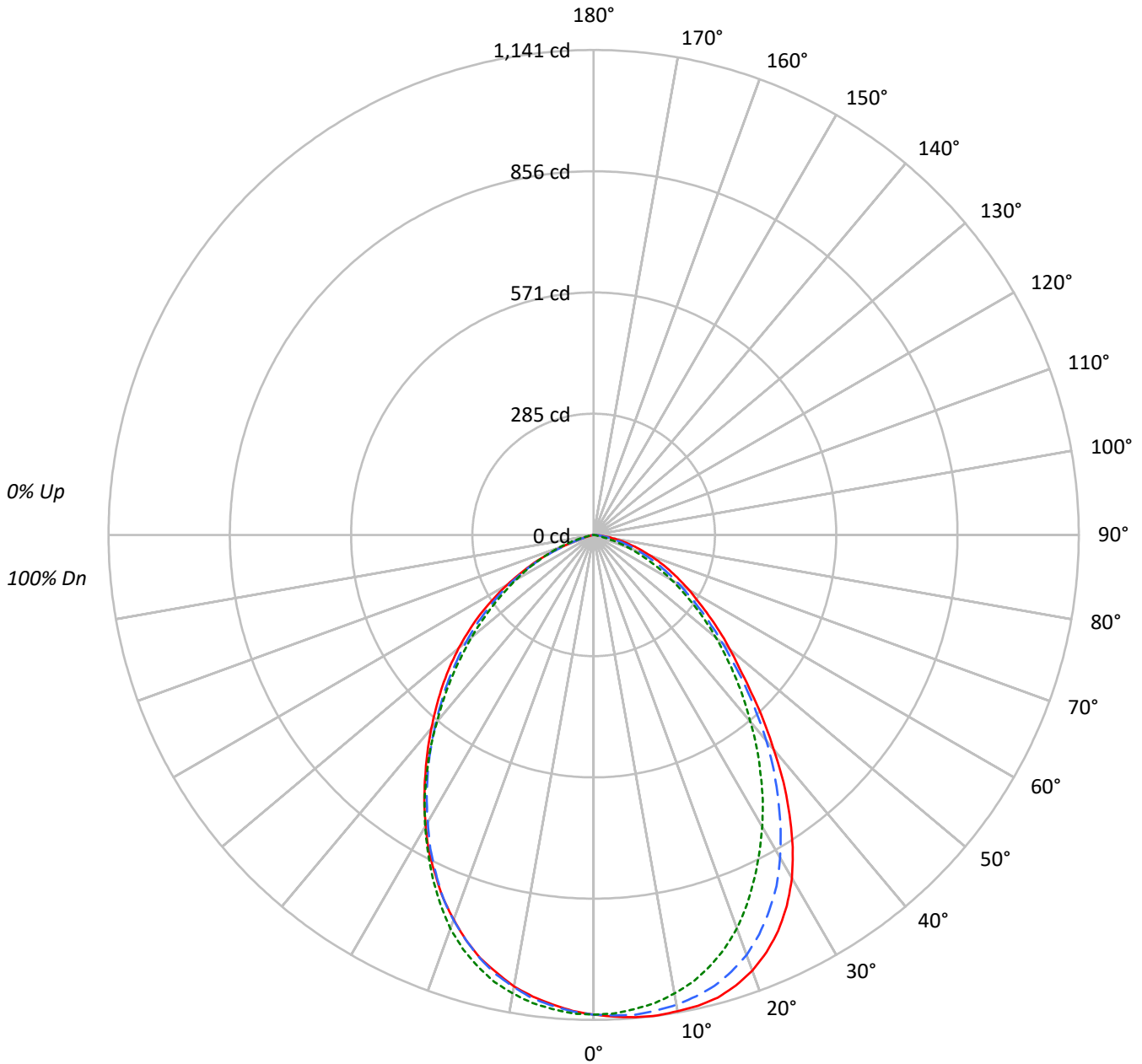
Lumens per Lamp: N/A  
Luminaire Lumens: 2145.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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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  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 34802 | 34802 | 34802 |
| 5°  | 35260 | 34656 | 34328 |
| 10° | 35624 | 34302 | 33783 |
| 15° | 35978 | 33575 | 32904 |
| 20° | 35802 | 32336 | 31598 |
| 25° | 34963 | 30404 | 29992 |
| 30° | 33210 | 28218 | 28115 |
| 35° | 30236 | 25752 | 25982 |
| 40° | 26507 | 23049 | 23899 |
| 45° | 22864 | 20501 | 21948 |
| 50° | 20024 | 17999 | 19880 |
| 55° | 17741 | 15473 | 17499 |
| 60° | 15986 | 13013 | 14499 |
| 65° | 14403 | 10441 | 11105 |
| 70° | 12640 | 7609  | 6113  |
| 75° | 10770 | 3944  | 1620  |
| 80° | 8293  | 1065  | 266   |
| 85° | 5307  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.5  | 5.0       |
| 10°-20°   | 299.3  | 14.0      |
| 20°-30°   | 424.9  | 19.8      |
| 30°-40°   | 447.2  | 20.9      |
| 40°-50°   | 380.5  | 17.7      |
| 50°-60°   | 274.9  | 12.8      |
| 60°-70°   | 156.4  | 7.3       |
| 70°-80°   | 49.3   | 2.3       |
| 80°-90°   | 6.0    | 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°    | 830.7  | 38.7      |
| 0°-40°    | 1277.9 | 59.6      |
| 0°-60°    | 1933.3 | 90.1      |
| 0°-90°    | 2145.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2145.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1129 | 1129 | 1129 | 1129 | 1129 |      |
| 5°  | 1139 | 1133 | 1120 | 1112 | 1109 | 109  |
| 15° | 1127 | 1098 | 1052 | 1032 | 1031 | 317  |
| 25° | 1028 | 976  | 894  | 878  | 882  | 471  |
| 35° | 803  | 756  | 684  | 680  | 690  | 500  |
| 45° | 524  | 505  | 470  | 482  | 503  | 408  |
| 55° | 330  | 306  | 288  | 304  | 326  | 298  |
| 65° | 197  | 170  | 143  | 142  | 152  | 196  |
| 75° | 90   | 69   | 33   | 15   | 14   | 97   |
| 85° | 15   | 9    | 0    | 0    | 0    | 19   |
| 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°    | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 |
| 2.5°  | 1134.6 | 1136.1 | 1133.1 | 1133.1 | 1136.1 | 1133.1 | 1134.6 | 1134.6 | 1133.1 | 1133.1 | 1131.6 |
| 5°    | 1139.1 | 1137.7 | 1137.7 | 1137.7 | 1139.1 | 1136.1 | 1134.6 | 1136.1 | 1133.1 | 1133.1 | 1133.1 |
| 7.5°  | 1140.6 | 1140.6 | 1139.1 | 1137.7 | 1137.7 | 1137.7 | 1136.1 | 1134.6 | 1133.1 | 1130.1 | 1128.6 |
| 10°   | 1137.7 | 1137.7 | 1139.1 | 1136.1 | 1136.1 | 1133.1 | 1133.1 | 1130.1 | 1130.1 | 1127.0 | 1122.5 |
| 12.5° | 1134.6 | 1133.1 | 1133.1 | 1130.1 | 1130.1 | 1127.0 | 1127.0 | 1122.5 | 1121.0 | 1116.5 | 1112.0 |
| 15°   | 1127.0 | 1125.6 | 1122.5 | 1121.0 | 1119.6 | 1118.1 | 1115.0 | 1113.6 | 1109.0 | 1102.9 | 1098.4 |
| 17.5° | 1112.0 | 1110.5 | 1109.0 | 1106.0 | 1102.9 | 1101.5 | 1100.0 | 1095.5 | 1089.4 | 1085.0 | 1077.4 |
| 20°   | 1091.0 | 1089.4 | 1089.4 | 1085.0 | 1083.4 | 1078.9 | 1077.4 | 1071.4 | 1066.9 | 1057.8 | 1051.7 |
| 22.5° | 1062.3 | 1063.8 | 1060.8 | 1057.8 | 1054.8 | 1050.2 | 1047.3 | 1041.2 | 1033.7 | 1024.7 | 1017.1 |
| 25°   | 1027.6 | 1029.2 | 1026.1 | 1023.1 | 1018.6 | 1015.6 | 1012.6 | 1003.5 | 996.0  | 985.4  | 976.5  |
| 27.5° | 983.9  | 983.9  | 983.9  | 980.9  | 973.4  | 971.8  | 968.9  | 959.8  | 949.3  | 940.3  | 931.2  |
| 30°   | 932.7  | 931.2  | 931.2  | 926.7  | 923.6  | 917.6  | 913.1  | 905.6  | 898.1  | 887.6  | 876.9  |
| 32.5° | 870.9  | 872.4  | 867.9  | 864.9  | 860.4  | 860.4  | 854.3  | 848.3  | 839.3  | 828.7  | 818.2  |
| 35°   | 803.2  | 804.6  | 801.6  | 800.1  | 792.5  | 791.1  | 789.6  | 782.0  | 776.0  | 768.4  | 756.4  |
| 37.5° | 733.8  | 732.2  | 730.8  | 730.8  | 726.3  | 723.3  | 720.3  | 715.7  | 706.7  | 700.7  | 694.7  |
| 40°   | 658.5  | 658.5  | 658.5  | 657.0  | 655.4  | 652.5  | 650.9  | 648.0  | 641.9  | 635.9  | 631.3  |
| 42.5° | 590.6  | 590.6  | 589.1  | 587.7  | 584.6  | 586.2  | 583.1  | 580.1  | 574.1  | 569.6  | 566.5  |
| 45°   | 524.3  | 524.3  | 524.3  | 525.9  | 522.9  | 518.3  | 518.3  | 515.4  | 512.3  | 509.3  | 504.8  |
| 47.5° | 465.6  | 470.1  | 467.1  | 465.6  | 467.1  | 461.1  | 461.1  | 458.0  | 455.1  | 452.0  | 446.0  |
| 50°   | 417.4  | 417.4  | 417.4  | 414.4  | 412.9  | 412.9  | 408.4  | 405.3  | 403.8  | 400.8  | 394.8  |
| 52.5° | 373.6  | 370.7  | 370.7  | 369.1  | 367.6  | 364.6  | 364.6  | 361.7  | 355.7  | 352.6  | 348.1  |
| 55°   | 330.0  | 330.0  | 328.5  | 326.9  | 325.5  | 324.0  | 322.4  | 318.0  | 314.9  | 310.4  | 305.9  |
| 57.5° | 290.8  | 293.8  | 292.3  | 289.4  | 286.3  | 286.3  | 283.3  | 280.3  | 275.8  | 271.3  | 266.7  |
| 60°   | 259.2  | 257.7  | 257.7  | 256.1  | 253.2  | 251.6  | 250.1  | 245.6  | 241.1  | 236.5  | 232.0  |
| 62.5° | 226.0  | 226.0  | 226.0  | 223.0  | 220.0  | 218.4  | 217.0  | 213.9  | 207.9  | 203.4  | 200.3  |
| 65°   | 197.4  | 195.9  | 194.3  | 192.9  | 191.4  | 188.3  | 186.9  | 183.8  | 179.3  | 174.8  | 170.3  |
| 67.5° | 168.8  | 167.3  | 167.3  | 165.7  | 161.2  | 159.7  | 159.7  | 155.2  | 150.7  | 146.2  | 141.6  |
| 70°   | 140.2  | 140.2  | 140.2  | 137.1  | 135.6  | 134.2  | 132.6  | 129.5  | 125.1  | 120.6  | 116.1  |
| 72.5° | 116.1  | 114.5  | 114.5  | 113.0  | 108.5  | 107.0  | 105.4  | 102.5  | 98.0   | 94.9   | 92.0   |
| 75°   | 90.4   | 90.4   | 88.9   | 87.3   | 85.9   | 84.4   | 82.9   | 79.9   | 75.3   | 70.8   | 69.3   |
| 77.5° | 69.3   | 67.8   | 67.8   | 66.3   | 63.2   | 61.8   | 61.8   | 58.7   | 54.3   | 51.2   | 48.2   |
| 80°   | 46.7   | 48.2   | 46.7   | 45.2   | 43.7   | 42.2   | 40.7   | 39.1   | 36.2   | 33.1   | 30.1   |
| 82.5° | 28.6   | 30.1   | 28.6   | 28.6   | 27.1   | 25.6   | 25.6   | 22.6   | 21.0   | 19.6   | 18.1   |
| 85°   | 15.0   | 15.0   | 15.0   | 15.0   | 13.6   | 13.6   | 13.6   | 12.1   | 10.5   | 9.0    | 9.0    |
| 87.5° | 4.5    | 6.0    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 3.0    | 3.0    | 3.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 |
| 2.5°  | 1133.1 | 1131.6 | 1130.1 | 1130.1 | 1130.1 | 1130.1 | 1130.1 | 1128.6 | 1127.0 | 1127.0 | 1127.0 |
| 5°    | 1130.1 | 1130.1 | 1130.1 | 1128.6 | 1127.0 | 1127.0 | 1124.1 | 1122.5 | 1121.0 | 1119.6 | 1118.1 |
| 7.5°  | 1127.0 | 1124.1 | 1122.5 | 1121.0 | 1119.6 | 1119.6 | 1116.5 | 1113.6 | 1113.6 | 1110.5 | 1107.5 |
| 10°   | 1118.1 | 1116.5 | 1113.6 | 1110.5 | 1109.0 | 1107.5 | 1104.5 | 1100.0 | 1098.4 | 1095.5 | 1092.4 |
| 12.5° | 1107.5 | 1104.5 | 1101.5 | 1095.5 | 1093.9 | 1092.4 | 1086.4 | 1081.9 | 1078.9 | 1077.4 | 1069.8 |
| 15°   | 1093.9 | 1087.9 | 1083.4 | 1075.9 | 1074.3 | 1071.4 | 1066.9 | 1062.3 | 1056.2 | 1051.7 | 1048.8 |
| 17.5° | 1069.8 | 1063.8 | 1056.2 | 1048.8 | 1045.7 | 1045.7 | 1038.2 | 1032.1 | 1024.7 | 1021.6 | 1015.6 |
| 20°   | 1041.2 | 1033.7 | 1027.6 | 1018.6 | 1014.0 | 1009.5 | 1005.1 | 996.0  | 989.9  | 985.4  | 977.9  |
| 22.5° | 1008.0 | 997.5  | 989.9  | 980.9  | 973.4  | 968.9  | 961.3  | 953.8  | 946.3  | 941.7  | 935.7  |
| 25°   | 965.8  | 956.8  | 944.8  | 935.7  | 931.2  | 925.2  | 916.2  | 908.6  | 901.0  | 893.6  | 890.5  |
| 27.5° | 919.1  | 907.1  | 896.5  | 886.0  | 881.5  | 876.9  | 866.4  | 857.4  | 851.4  | 843.8  | 840.8  |
| 30°   | 867.9  | 855.9  | 843.8  | 834.7  | 830.2  | 822.7  | 816.6  | 806.1  | 798.6  | 792.5  | 785.1  |
| 32.5° | 809.2  | 800.1  | 789.6  | 776.0  | 773.0  | 767.0  | 757.9  | 753.4  | 744.3  | 739.8  | 733.8  |
| 35°   | 745.8  | 739.8  | 729.3  | 718.8  | 714.3  | 711.2  | 703.6  | 694.7  | 688.6  | 684.1  | 681.1  |
| 37.5° | 685.6  | 678.1  | 667.5  | 660.0  | 657.0  | 652.5  | 643.4  | 638.9  | 632.8  | 629.9  | 623.9  |
| 40°   | 620.8  | 613.2  | 605.8  | 601.2  | 596.7  | 593.7  | 587.7  | 583.1  | 577.1  | 572.6  | 571.0  |
| 42.5° | 557.5  | 552.9  | 546.9  | 541.0  | 539.5  | 535.0  | 531.9  | 527.4  | 522.9  | 521.4  | 516.9  |
| 45°   | 500.2  | 495.7  | 489.7  | 483.7  | 482.1  | 479.2  | 477.6  | 473.2  | 470.1  | 470.1  | 470.1  |
| 47.5° | 443.0  | 438.5  | 432.5  | 429.4  | 431.0  | 424.9  | 424.9  | 423.4  | 420.4  | 420.4  | 421.9  |
| 50°   | 391.7  | 385.7  | 384.3  | 381.2  | 378.2  | 375.2  | 376.7  | 372.2  | 372.2  | 375.2  | 373.6  |
| 52.5° | 343.6  | 337.6  | 336.0  | 333.0  | 331.6  | 331.6  | 330.0  | 330.0  | 328.5  | 330.0  | 330.0  |
| 55°   | 299.9  | 295.4  | 292.3  | 289.4  | 287.8  | 287.8  | 287.8  | 286.3  | 284.7  | 287.8  | 289.4  |
| 57.5° | 260.6  | 259.2  | 256.1  | 251.6  | 250.1  | 248.6  | 247.2  | 247.2  | 247.2  | 247.2  | 248.6  |
| 60°   | 226.0  | 223.0  | 220.0  | 215.5  | 215.5  | 213.9  | 212.4  | 211.0  | 211.0  | 211.0  | 211.0  |
| 62.5° | 195.9  | 191.4  | 186.9  | 183.8  | 182.3  | 180.8  | 179.3  | 176.4  | 176.4  | 176.4  | 176.4  |
| 65°   | 165.7  | 161.2  | 158.3  | 155.2  | 152.2  | 152.2  | 149.2  | 147.6  | 144.7  | 143.1  | 140.2  |
| 67.5° | 137.1  | 134.2  | 131.1  | 126.6  | 125.1  | 123.5  | 120.6  | 119.0  | 114.5  | 113.0  | 111.5  |
| 70°   | 111.5  | 107.0  | 104.0  | 100.9  | 99.4   | 96.5   | 93.4   | 90.4   | 87.3   | 84.4   | 81.3   |
| 72.5° | 87.3   | 82.9   | 79.9   | 76.8   | 73.9   | 73.9   | 69.3   | 66.3   | 61.8   | 58.7   | 54.3   |
| 75°   | 64.8   | 60.3   | 57.2   | 52.7   | 51.2   | 49.8   | 45.2   | 42.2   | 37.7   | 33.1   | 30.1   |
| 77.5° | 43.7   | 40.7   | 37.7   | 33.1   | 30.1   | 30.1   | 25.6   | 22.6   | 19.6   | 15.0   | 13.6   |
| 80°   | 27.1   | 24.1   | 21.0   | 18.1   | 18.1   | 15.0   | 13.6   | 10.5   | 7.6    | 6.0    | 4.5    |
| 82.5° | 15.0   | 13.6   | 12.1   | 9.0    | 9.0    | 7.6    | 6.0    | 4.5    | 3.0    | 1.5    | 1.5    |
| 85°   | 7.6    | 6.0    | 4.5    | 4.5    | 3.0    | 3.0    | 3.0    | 1.5    | 1.5    | 0.0    | 0.0    |
| 87.5° | 3.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 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: P575619

CATALOG NUMBER: HCC8W20D010MB-HM80520835-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 |
| 2.5°  | 1125.6 | 1125.6 | 1124.1 | 1124.1 | 1124.1 | 1122.5 | 1124.1 | 1122.5 | 1122.5 | 1122.5 | 1124.1 |
| 5°    | 1119.6 | 1116.5 | 1116.5 | 1115.0 | 1115.0 | 1113.6 | 1115.0 | 1113.6 | 1112.0 | 1110.5 | 1112.0 |
| 7.5°  | 1107.5 | 1104.5 | 1102.9 | 1101.5 | 1101.5 | 1101.5 | 1100.0 | 1098.4 | 1100.0 | 1095.5 | 1098.4 |
| 10°   | 1091.0 | 1089.4 | 1086.4 | 1085.0 | 1083.4 | 1085.0 | 1083.4 | 1080.3 | 1080.3 | 1080.3 | 1078.9 |
| 12.5° | 1069.8 | 1066.9 | 1065.3 | 1063.8 | 1060.8 | 1060.8 | 1062.3 | 1059.3 | 1059.3 | 1056.2 | 1056.2 |
| 15°   | 1044.2 | 1041.2 | 1038.2 | 1038.2 | 1035.2 | 1035.2 | 1033.7 | 1033.7 | 1032.1 | 1030.7 | 1030.7 |
| 17.5° | 1012.6 | 1008.0 | 1005.1 | 1006.6 | 1005.1 | 1003.5 | 1003.5 | 1000.6 | 999.0  | 1000.6 | 1000.6 |
| 20°   | 974.9  | 971.8  | 968.9  | 970.4  | 967.3  | 965.8  | 967.3  | 962.9  | 964.4  | 964.4  | 964.4  |
| 22.5° | 932.7  | 931.2  | 926.7  | 926.7  | 923.6  | 922.2  | 923.6  | 923.6  | 925.2  | 923.6  | 923.6  |
| 25°   | 886.0  | 883.0  | 880.0  | 880.0  | 878.5  | 876.9  | 878.5  | 880.0  | 878.5  | 880.0  | 880.0  |
| 27.5° | 836.3  | 831.8  | 831.8  | 828.7  | 828.7  | 830.2  | 828.7  | 830.2  | 831.8  | 831.8  | 834.7  |
| 30°   | 782.0  | 780.5  | 779.1  | 777.5  | 777.5  | 779.1  | 779.1  | 779.1  | 780.5  | 783.5  | 783.5  |
| 32.5° | 730.8  | 727.8  | 724.8  | 724.8  | 727.8  | 726.3  | 727.8  | 727.8  | 730.8  | 730.8  | 733.8  |
| 35°   | 675.0  | 675.0  | 672.1  | 673.5  | 673.5  | 673.5  | 673.5  | 676.6  | 679.5  | 681.1  | 684.1  |
| 37.5° | 623.9  | 619.2  | 620.8  | 620.8  | 622.3  | 620.8  | 625.3  | 625.3  | 628.4  | 628.4  | 631.3  |
| 40°   | 568.1  | 568.1  | 569.6  | 568.1  | 569.6  | 569.6  | 572.6  | 575.6  | 577.1  | 580.1  | 581.7  |
| 42.5° | 515.4  | 518.3  | 515.4  | 516.9  | 518.3  | 519.8  | 521.4  | 522.9  | 528.9  | 531.9  | 536.4  |
| 45°   | 467.1  | 468.7  | 470.1  | 471.6  | 470.1  | 473.2  | 474.7  | 477.6  | 482.1  | 483.7  | 485.2  |
| 47.5° | 420.4  | 421.9  | 423.4  | 424.9  | 424.9  | 427.9  | 429.4  | 432.5  | 435.4  | 437.0  | 438.5  |
| 50°   | 375.2  | 378.2  | 379.7  | 379.7  | 381.2  | 384.3  | 387.2  | 387.2  | 390.3  | 394.8  | 396.3  |
| 52.5° | 334.5  | 334.5  | 337.6  | 339.0  | 340.5  | 340.5  | 345.0  | 346.6  | 348.1  | 351.1  | 354.1  |
| 55°   | 289.4  | 293.8  | 295.4  | 295.4  | 298.3  | 301.4  | 302.8  | 304.4  | 304.4  | 310.4  | 310.4  |
| 57.5° | 250.1  | 251.6  | 254.6  | 254.6  | 254.6  | 259.2  | 259.2  | 262.2  | 263.7  | 265.2  | 268.2  |
| 60°   | 211.0  | 213.9  | 213.9  | 215.5  | 213.9  | 217.0  | 218.4  | 221.5  | 223.0  | 224.5  | 226.0  |
| 62.5° | 174.8  | 174.8  | 176.4  | 176.4  | 176.4  | 176.4  | 179.3  | 179.3  | 182.3  | 183.8  | 185.3  |
| 65°   | 140.2  | 140.2  | 140.2  | 140.2  | 140.2  | 140.2  | 140.2  | 140.2  | 141.6  | 141.6  | 144.7  |
| 67.5° | 108.5  | 107.0  | 104.0  | 105.4  | 104.0  | 104.0  | 102.5  | 102.5  | 104.0  | 104.0  | 107.0  |
| 70°   | 78.4   | 76.8   | 73.9   | 73.9   | 72.3   | 70.8   | 69.3   | 67.8   | 66.3   | 66.3   | 66.3   |
| 72.5° | 51.2   | 48.2   | 43.7   | 42.2   | 42.2   | 39.1   | 36.2   | 34.6   | 34.6   | 34.6   | 34.6   |
| 75°   | 25.6   | 22.6   | 19.6   | 18.1   | 18.1   | 15.0   | 16.5   | 15.0   | 15.0   | 15.0   | 15.0   |
| 77.5° | 10.5   | 7.6    | 6.0    | 6.0    | 6.0    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 80°   | 3.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 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: P575619

CATALOG NUMBER: HCC8W20D010MB-HM80520835-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 | 1128.6 |
| 2.5°  | 1122.5 | 1122.5 | 1119.6 | 1121.0 | 1121.0 | 1121.0 | 1121.0 | 1121.0 |
| 5°    | 1109.0 | 1110.5 | 1109.0 | 1110.5 | 1110.5 | 1109.0 | 1109.0 | 1109.0 |
| 7.5°  | 1095.5 | 1096.9 | 1095.5 | 1096.9 | 1096.9 | 1096.9 | 1095.5 | 1095.5 |
| 10°   | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1077.4 | 1078.9 | 1078.9 |
| 12.5° | 1056.2 | 1056.2 | 1056.2 | 1057.8 | 1057.8 | 1056.2 | 1056.2 | 1054.8 |
| 15°   | 1032.1 | 1029.2 | 1030.7 | 1032.1 | 1030.7 | 1030.7 | 1030.7 | 1030.7 |
| 17.5° | 999.0  | 1000.6 | 999.0  | 999.0  | 999.0  | 999.0  | 1000.6 | 999.0  |
| 20°   | 964.4  | 964.4  | 965.8  | 964.4  | 964.4  | 964.4  | 964.4  | 962.9  |
| 22.5° | 925.2  | 923.6  | 923.6  | 925.2  | 925.2  | 923.6  | 925.2  | 925.2  |
| 25°   | 881.5  | 883.0  | 881.5  | 881.5  | 883.0  | 883.0  | 883.0  | 881.5  |
| 27.5° | 834.7  | 836.3  | 837.8  | 836.3  | 836.3  | 836.3  | 837.8  | 839.3  |
| 30°   | 786.5  | 789.6  | 786.5  | 786.5  | 789.6  | 788.0  | 789.6  | 789.6  |
| 32.5° | 735.3  | 739.8  | 736.9  | 739.8  | 739.8  | 741.4  | 739.8  | 741.4  |
| 35°   | 684.1  | 688.6  | 688.6  | 688.6  | 690.2  | 691.6  | 691.6  | 690.2  |
| 37.5° | 635.9  | 637.3  | 637.3  | 640.4  | 641.9  | 643.4  | 643.4  | 641.9  |
| 40°   | 586.2  | 589.1  | 590.6  | 590.6  | 590.6  | 593.7  | 596.7  | 593.7  |
| 42.5° | 537.9  | 539.5  | 541.0  | 541.0  | 544.0  | 545.5  | 546.9  | 546.9  |
| 45°   | 491.2  | 494.2  | 495.7  | 497.3  | 498.8  | 501.8  | 500.2  | 503.3  |
| 47.5° | 443.0  | 447.5  | 449.0  | 450.6  | 453.5  | 455.1  | 456.6  | 458.0  |
| 50°   | 399.3  | 402.4  | 402.4  | 405.3  | 409.8  | 409.8  | 412.9  | 414.4  |
| 52.5° | 355.7  | 357.1  | 358.6  | 360.2  | 363.1  | 366.2  | 366.2  | 369.1  |
| 55°   | 313.5  | 314.9  | 314.9  | 316.4  | 318.0  | 324.0  | 325.5  | 325.5  |
| 57.5° | 269.7  | 269.7  | 272.7  | 274.2  | 275.8  | 278.7  | 278.7  | 278.7  |
| 60°   | 227.5  | 229.1  | 229.1  | 230.5  | 232.0  | 235.1  | 236.5  | 235.1  |
| 62.5° | 185.3  | 186.9  | 186.9  | 188.3  | 191.4  | 192.9  | 191.4  | 191.4  |
| 65°   | 146.2  | 147.6  | 147.6  | 149.2  | 152.2  | 152.2  | 150.7  | 152.2  |
| 67.5° | 107.0  | 107.0  | 107.0  | 107.0  | 107.0  | 107.0  | 107.0  | 107.0  |
| 70°   | 67.8   | 66.3   | 64.8   | 66.3   | 66.3   | 66.3   | 64.8   | 67.8   |
| 72.5° | 33.1   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 33.1   |
| 75°   | 15.0   | 15.0   | 13.6   | 13.6   | 13.6   | 15.0   | 15.0   | 13.6   |
| 77.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 80°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 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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Scaled Data Report



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