

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: P593600

Luminaire Tested: **HCC8W20D010MB-HM80520850-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W20D010MB-HM80520850-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

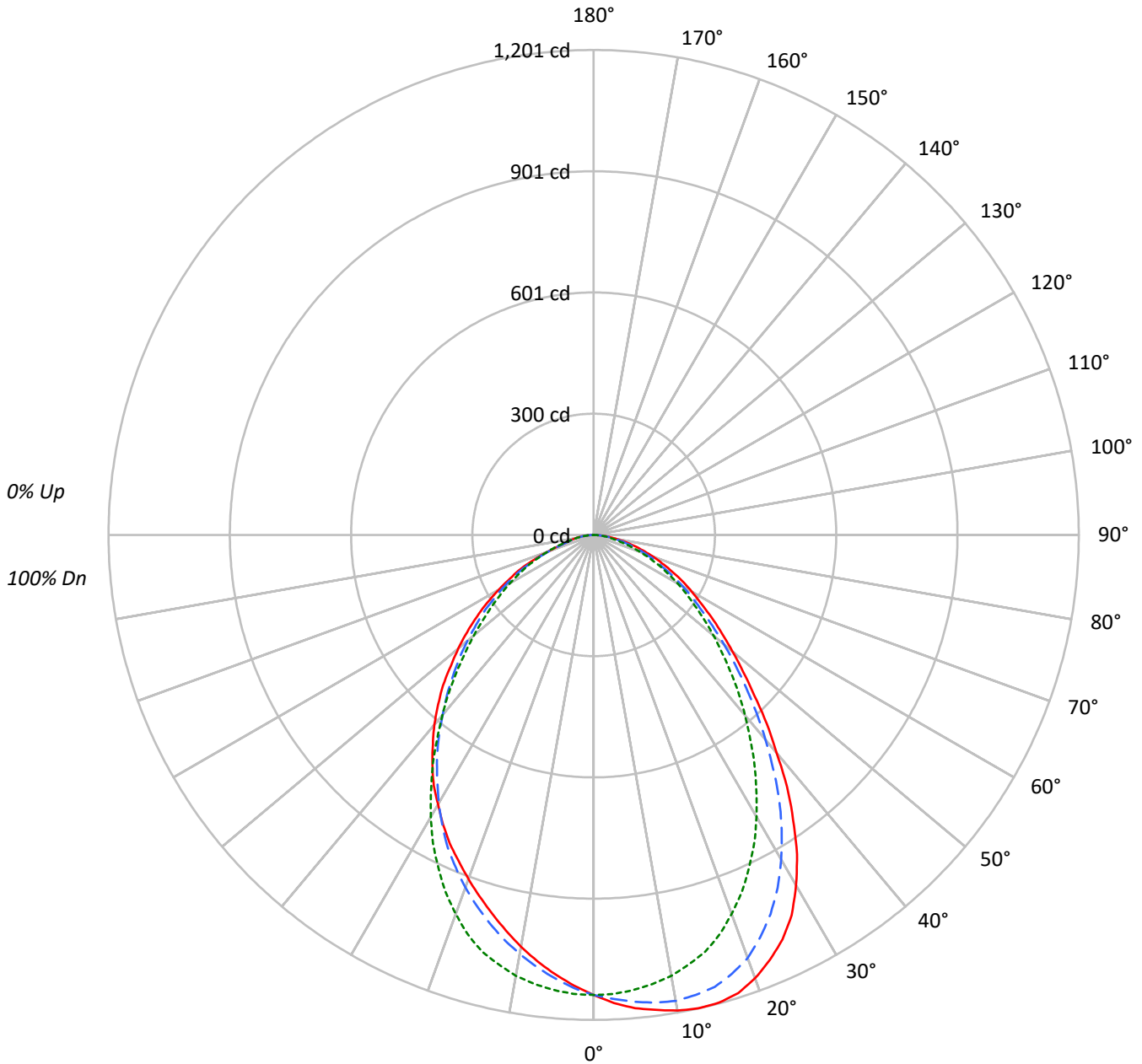
Lumens per Lamp: N/A
Luminaire Lumens: 2291.5 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): 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: P593600
CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WWWB

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 | | | 100 | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | 87 | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | 75 | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | 65 | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | 57 | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | 50 | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | 45 | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | 40 | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | 37 | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | 33 | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | 30 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 35132 | 35132 | 35132 |
| 5° | 36421 | 35018 | 33814 |
| 10° | 37452 | 34712 | 32433 |
| 15° | 38287 | 34101 | 30998 |
| 20° | 38345 | 32769 | 29744 |
| 25° | 37610 | 30945 | 28689 |
| 30° | 35674 | 28699 | 27431 |
| 35° | 32412 | 26136 | 26200 |
| 40° | 28339 | 23452 | 24688 |
| 45° | 24561 | 20893 | 23008 |
| 50° | 21506 | 18556 | 20964 |
| 55° | 19139 | 16446 | 18967 |
| 60° | 17268 | 14771 | 16670 |
| 65° | 15585 | 12988 | 14520 |
| 70° | 14002 | 10945 | 10792 |
| 75° | 12331 | 8674 | 8102 |
| 80° | 10353 | 7174 | 7760 |
| 85° | 8031 | 6298 | 6864 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.5 | 4.7 |
| 10°-20° | 302.7 | 13.2 |
| 20°-30° | 432.7 | 18.9 |
| 30°-40° | 459.7 | 20.1 |
| 40°-50° | 395.8 | 17.3 |
| 50°-60° | 295.9 | 12.9 |
| 60°-70° | 188.8 | 8.2 |
| 70°-80° | 85.9 | 3.7 |
| 80°-90° | 22.5 | 1.0 |
| 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° | 842.9 | 36.8 |
| 0°-40° | 1302.6 | 56.8 |
| 0°-60° | 1994.4 | 87.0 |
| 0°-90° | 2291.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2291.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1139 | 1139 | 1139 | 1139 | 1139 | |
| 5° | 1177 | 1160 | 1131 | 1102 | 1092 | 113 |
| 15° | 1199 | 1159 | 1068 | 995 | 971 | 338 |
| 25° | 1105 | 1036 | 910 | 855 | 843 | 506 |
| 35° | 861 | 801 | 694 | 676 | 696 | 536 |
| 45° | 563 | 532 | 479 | 492 | 528 | 438 |
| 55° | 356 | 327 | 306 | 332 | 353 | 320 |
| 65° | 214 | 189 | 178 | 186 | 199 | 213 |
| 75° | 104 | 89 | 73 | 66 | 68 | 110 |
| 85° | 23 | 19 | 18 | 19 | 19 | 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° | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 |
| 2.5° | 1160.4 | 1157.2 | 1158.8 | 1157.2 | 1158.8 | 1158.8 | 1155.5 | 1155.5 | 1155.5 | 1155.5 | 1150.7 |
| 5° | 1176.6 | 1175.0 | 1175.0 | 1173.4 | 1171.7 | 1173.4 | 1171.7 | 1170.2 | 1166.9 | 1165.3 | 1160.4 |
| 7.5° | 1186.4 | 1186.4 | 1186.4 | 1186.4 | 1184.7 | 1183.1 | 1181.4 | 1178.2 | 1175.0 | 1171.7 | 1168.5 |
| 10° | 1196.1 | 1197.6 | 1196.1 | 1194.4 | 1192.8 | 1189.6 | 1187.9 | 1184.7 | 1179.9 | 1175.0 | 1171.7 |
| 12.5° | 1200.9 | 1200.9 | 1199.3 | 1199.3 | 1196.1 | 1194.4 | 1189.6 | 1184.7 | 1179.9 | 1175.0 | 1166.9 |
| 15° | 1199.3 | 1199.3 | 1197.6 | 1196.1 | 1191.2 | 1189.6 | 1186.4 | 1181.4 | 1173.4 | 1166.9 | 1158.8 |
| 17.5° | 1189.6 | 1187.9 | 1184.7 | 1184.7 | 1178.2 | 1176.6 | 1173.4 | 1166.9 | 1158.8 | 1149.1 | 1139.3 |
| 20° | 1168.5 | 1168.5 | 1166.9 | 1165.3 | 1158.8 | 1154.0 | 1150.7 | 1142.6 | 1136.1 | 1124.8 | 1115.1 |
| 22.5° | 1139.3 | 1142.6 | 1139.3 | 1136.1 | 1128.1 | 1126.4 | 1121.6 | 1111.9 | 1102.2 | 1089.2 | 1077.9 |
| 25° | 1105.4 | 1103.8 | 1102.2 | 1098.9 | 1092.4 | 1089.2 | 1082.7 | 1073.0 | 1063.3 | 1048.8 | 1035.8 |
| 27.5° | 1061.7 | 1055.2 | 1055.2 | 1048.8 | 1043.9 | 1039.1 | 1035.8 | 1026.1 | 1013.1 | 1001.9 | 985.7 |
| 30° | 1001.9 | 1003.4 | 995.4 | 993.7 | 985.7 | 982.4 | 976.0 | 966.2 | 954.9 | 941.9 | 928.9 |
| 32.5° | 937.1 | 932.2 | 932.2 | 925.7 | 919.2 | 914.4 | 912.9 | 901.5 | 891.8 | 878.8 | 865.8 |
| 35° | 861.0 | 861.0 | 856.1 | 854.6 | 848.1 | 844.8 | 839.9 | 833.5 | 822.2 | 810.9 | 801.2 |
| 37.5° | 786.5 | 783.3 | 781.7 | 778.5 | 773.6 | 768.8 | 768.8 | 757.4 | 755.8 | 742.9 | 729.9 |
| 40° | 704.0 | 707.3 | 704.0 | 699.2 | 697.5 | 694.3 | 692.7 | 686.3 | 681.3 | 670.1 | 661.9 |
| 42.5° | 634.4 | 631.2 | 631.2 | 629.5 | 623.2 | 623.2 | 619.8 | 616.6 | 608.5 | 605.3 | 595.6 |
| 45° | 563.2 | 566.4 | 561.6 | 563.2 | 556.7 | 556.7 | 556.7 | 550.2 | 543.8 | 539.0 | 532.5 |
| 47.5° | 501.8 | 503.3 | 503.3 | 498.4 | 496.9 | 496.9 | 493.6 | 490.4 | 485.6 | 479.1 | 474.2 |
| 50° | 448.3 | 449.9 | 446.7 | 445.0 | 441.8 | 440.2 | 440.2 | 433.8 | 430.5 | 424.0 | 420.8 |
| 52.5° | 399.8 | 399.8 | 398.1 | 398.1 | 393.3 | 393.3 | 390.1 | 385.2 | 381.9 | 378.7 | 370.7 |
| 55° | 356.0 | 356.0 | 354.5 | 352.8 | 352.8 | 348.0 | 346.3 | 341.5 | 338.3 | 331.8 | 326.9 |
| 57.5° | 313.9 | 315.6 | 313.9 | 312.4 | 310.7 | 309.1 | 305.9 | 301.1 | 297.7 | 292.9 | 289.7 |
| 60° | 280.0 | 280.0 | 278.4 | 276.7 | 273.5 | 271.9 | 270.3 | 267.0 | 262.2 | 259.0 | 254.1 |
| 62.5° | 247.6 | 246.0 | 244.4 | 242.8 | 239.5 | 239.5 | 236.3 | 233.1 | 228.2 | 224.9 | 221.7 |
| 65° | 213.6 | 213.6 | 212.1 | 212.1 | 210.4 | 207.2 | 205.5 | 203.9 | 197.4 | 195.9 | 189.4 |
| 67.5° | 182.9 | 184.5 | 181.3 | 181.3 | 178.0 | 178.0 | 176.4 | 171.5 | 170.0 | 166.7 | 163.5 |
| 70° | 155.3 | 155.3 | 155.3 | 153.8 | 150.5 | 148.9 | 147.3 | 144.1 | 142.4 | 139.2 | 135.9 |
| 72.5° | 127.9 | 127.9 | 126.2 | 126.2 | 124.6 | 123.0 | 121.4 | 118.2 | 118.2 | 114.9 | 111.7 |
| 75° | 103.5 | 103.5 | 102.0 | 100.4 | 98.7 | 98.7 | 97.2 | 95.5 | 92.2 | 90.7 | 89.0 |
| 77.5° | 79.3 | 79.3 | 79.3 | 77.7 | 76.1 | 76.1 | 76.1 | 72.8 | 69.6 | 69.6 | 68.0 |
| 80° | 58.3 | 58.3 | 56.6 | 56.6 | 55.1 | 55.1 | 55.1 | 53.4 | 51.8 | 50.1 | 48.6 |
| 82.5° | 38.9 | 38.9 | 38.9 | 38.9 | 37.2 | 37.2 | 37.2 | 35.6 | 34.0 | 34.0 | 34.0 |
| 85° | 22.7 | 22.7 | 22.7 | 22.7 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 19.4 | 19.4 |
| 87.5° | 9.7 | 8.0 | 9.7 | 8.0 | 9.7 | 8.0 | 9.7 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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° | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 |
| 2.5° | 1152.3 | 1150.7 | 1149.1 | 1147.5 | 1147.5 | 1145.8 | 1142.6 | 1141.0 | 1139.3 | 1137.8 | 1137.8 |
| 5° | 1158.8 | 1157.2 | 1154.0 | 1150.7 | 1149.1 | 1145.8 | 1142.6 | 1139.3 | 1136.1 | 1131.3 | 1129.6 |
| 7.5° | 1163.7 | 1158.8 | 1155.5 | 1149.1 | 1147.5 | 1144.3 | 1139.3 | 1134.5 | 1128.1 | 1121.6 | 1116.8 |
| 10° | 1163.7 | 1157.2 | 1152.3 | 1144.3 | 1141.0 | 1137.8 | 1131.3 | 1123.3 | 1115.1 | 1108.6 | 1100.6 |
| 12.5° | 1160.4 | 1152.3 | 1144.3 | 1136.1 | 1131.3 | 1126.4 | 1116.8 | 1108.6 | 1098.9 | 1089.2 | 1082.7 |
| 15° | 1149.1 | 1139.3 | 1129.6 | 1119.9 | 1115.1 | 1108.6 | 1098.9 | 1087.6 | 1077.9 | 1068.2 | 1056.8 |
| 17.5° | 1128.1 | 1118.3 | 1107.1 | 1095.7 | 1089.2 | 1084.4 | 1069.8 | 1061.7 | 1047.1 | 1037.4 | 1027.7 |
| 20° | 1100.6 | 1089.2 | 1074.7 | 1063.3 | 1055.2 | 1050.3 | 1039.1 | 1024.4 | 1013.1 | 998.6 | 988.9 |
| 22.5° | 1065.0 | 1050.3 | 1035.8 | 1024.4 | 1016.4 | 1009.9 | 995.4 | 980.8 | 971.0 | 958.1 | 946.8 |
| 25° | 1022.9 | 1008.2 | 993.7 | 977.5 | 969.5 | 963.0 | 950.0 | 937.1 | 924.1 | 909.5 | 899.9 |
| 27.5° | 972.7 | 956.5 | 943.6 | 928.9 | 920.9 | 911.2 | 896.7 | 883.7 | 870.8 | 861.0 | 848.1 |
| 30° | 917.7 | 899.9 | 886.9 | 872.3 | 864.3 | 856.1 | 841.6 | 828.6 | 817.4 | 806.0 | 799.5 |
| 32.5° | 851.3 | 838.4 | 825.4 | 810.9 | 804.4 | 799.5 | 785.0 | 772.0 | 759.1 | 749.4 | 744.4 |
| 35° | 788.2 | 773.6 | 762.3 | 749.4 | 741.2 | 736.4 | 723.4 | 712.2 | 705.7 | 694.3 | 687.8 |
| 37.5° | 721.8 | 710.5 | 697.5 | 684.6 | 679.8 | 674.9 | 665.2 | 653.9 | 644.2 | 636.0 | 632.8 |
| 40° | 652.2 | 642.5 | 631.2 | 623.2 | 618.2 | 613.3 | 605.3 | 597.1 | 590.8 | 582.6 | 579.4 |
| 42.5° | 585.9 | 579.4 | 569.7 | 560.0 | 555.1 | 553.5 | 543.8 | 537.3 | 534.0 | 530.8 | 527.6 |
| 45° | 526.0 | 516.3 | 509.8 | 503.3 | 498.4 | 495.3 | 490.4 | 485.6 | 482.3 | 479.1 | 475.9 |
| 47.5° | 467.7 | 459.7 | 453.2 | 448.3 | 443.5 | 441.8 | 438.6 | 433.8 | 430.5 | 430.5 | 430.5 |
| 50° | 414.3 | 407.8 | 401.4 | 398.1 | 396.6 | 393.3 | 390.1 | 388.4 | 386.8 | 386.8 | 386.8 |
| 52.5° | 367.4 | 360.9 | 356.0 | 352.8 | 352.8 | 349.6 | 346.3 | 344.7 | 344.7 | 344.7 | 344.7 |
| 55° | 323.6 | 318.8 | 315.6 | 312.4 | 309.1 | 307.6 | 307.6 | 307.6 | 305.9 | 305.9 | 307.6 |
| 57.5° | 284.9 | 281.6 | 276.7 | 273.5 | 271.9 | 271.9 | 270.3 | 268.7 | 270.3 | 271.9 | 273.5 |
| 60° | 249.3 | 246.0 | 244.4 | 239.5 | 239.5 | 239.5 | 237.9 | 237.9 | 237.9 | 239.5 | 241.1 |
| 62.5° | 216.9 | 215.2 | 212.1 | 210.4 | 208.7 | 208.7 | 207.2 | 207.2 | 207.2 | 207.2 | 208.7 |
| 65° | 187.7 | 184.5 | 181.3 | 181.3 | 181.3 | 179.7 | 179.7 | 176.4 | 178.0 | 178.0 | 176.4 |
| 67.5° | 160.3 | 157.0 | 155.3 | 153.8 | 152.1 | 152.1 | 150.5 | 148.9 | 147.3 | 147.3 | 147.3 |
| 70° | 134.3 | 131.1 | 131.1 | 127.9 | 127.9 | 126.2 | 124.6 | 124.6 | 123.0 | 121.4 | 119.7 |
| 72.5° | 108.4 | 106.9 | 105.2 | 103.5 | 103.5 | 103.5 | 102.0 | 100.4 | 98.7 | 97.2 | 93.9 |
| 75° | 85.8 | 85.8 | 82.5 | 81.0 | 81.0 | 79.3 | 77.7 | 76.1 | 74.5 | 72.8 | 71.2 |
| 77.5° | 66.3 | 64.8 | 61.5 | 59.9 | 59.9 | 59.9 | 58.3 | 56.6 | 55.1 | 53.4 | 51.8 |
| 80° | 48.6 | 46.9 | 45.3 | 43.7 | 43.7 | 43.7 | 42.1 | 42.1 | 40.4 | 40.4 | 40.4 |
| 82.5° | 32.4 | 32.4 | 30.7 | 30.7 | 30.7 | 30.7 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 |
| 85° | 19.4 | 19.4 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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° | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 |
| 2.5° | 1134.5 | 1134.5 | 1131.3 | 1129.6 | 1128.1 | 1129.6 | 1126.4 | 1124.8 | 1123.3 | 1123.3 | 1121.6 |
| 5° | 1124.8 | 1123.3 | 1116.8 | 1115.1 | 1113.4 | 1111.9 | 1108.6 | 1105.4 | 1102.2 | 1100.6 | 1098.9 |
| 7.5° | 1111.9 | 1107.1 | 1100.6 | 1098.9 | 1097.3 | 1092.4 | 1087.6 | 1084.4 | 1079.5 | 1077.9 | 1074.7 |
| 10° | 1094.1 | 1087.6 | 1082.7 | 1077.9 | 1074.7 | 1069.8 | 1065.0 | 1060.1 | 1053.6 | 1052.0 | 1047.1 |
| 12.5° | 1073.0 | 1065.0 | 1055.2 | 1053.6 | 1048.8 | 1042.3 | 1035.8 | 1030.9 | 1026.1 | 1022.9 | 1018.1 |
| 15° | 1047.1 | 1039.1 | 1029.3 | 1024.4 | 1019.6 | 1014.7 | 1006.7 | 1000.2 | 995.4 | 990.5 | 985.7 |
| 17.5° | 1016.4 | 1006.7 | 998.6 | 993.7 | 990.5 | 982.4 | 976.0 | 967.8 | 963.0 | 958.1 | 953.3 |
| 20° | 979.2 | 971.0 | 959.8 | 954.9 | 953.3 | 946.8 | 938.7 | 935.4 | 928.9 | 924.1 | 920.9 |
| 22.5° | 937.1 | 928.9 | 919.2 | 916.0 | 909.5 | 906.4 | 898.2 | 895.0 | 891.8 | 886.9 | 885.3 |
| 25° | 890.2 | 882.0 | 874.0 | 872.3 | 867.5 | 864.3 | 859.4 | 854.6 | 854.6 | 849.7 | 849.7 |
| 27.5° | 841.6 | 833.5 | 827.0 | 823.7 | 822.2 | 818.9 | 814.0 | 812.5 | 810.9 | 809.2 | 809.2 |
| 30° | 789.8 | 780.1 | 776.8 | 775.3 | 773.6 | 770.4 | 768.8 | 765.5 | 767.1 | 768.8 | 767.1 |
| 32.5° | 734.7 | 731.5 | 725.0 | 721.8 | 723.4 | 721.8 | 718.5 | 721.8 | 720.2 | 723.4 | 725.0 |
| 35° | 681.3 | 678.1 | 674.9 | 674.9 | 671.6 | 671.6 | 671.6 | 673.3 | 676.5 | 678.1 | 681.3 |
| 37.5° | 629.5 | 624.7 | 623.2 | 621.5 | 623.2 | 623.2 | 623.2 | 626.3 | 629.5 | 632.8 | 637.7 |
| 40° | 574.6 | 571.3 | 571.3 | 571.3 | 571.3 | 576.1 | 574.6 | 577.8 | 581.1 | 585.9 | 590.8 |
| 42.5° | 522.8 | 522.8 | 524.3 | 524.3 | 524.3 | 524.3 | 527.6 | 532.5 | 537.3 | 542.2 | 547.0 |
| 45° | 474.2 | 474.2 | 474.2 | 477.4 | 477.4 | 479.1 | 485.6 | 488.8 | 491.9 | 496.9 | 501.8 |
| 47.5° | 428.8 | 428.8 | 430.5 | 432.1 | 433.8 | 437.0 | 440.2 | 445.0 | 449.9 | 453.2 | 458.0 |
| 50° | 386.8 | 388.4 | 391.7 | 394.9 | 394.9 | 396.6 | 401.4 | 404.6 | 407.8 | 412.8 | 414.3 |
| 52.5° | 346.3 | 349.6 | 352.8 | 354.5 | 356.0 | 359.3 | 360.9 | 365.7 | 367.4 | 372.2 | 373.9 |
| 55° | 309.1 | 310.7 | 315.6 | 317.2 | 317.2 | 320.4 | 323.6 | 326.9 | 331.8 | 331.8 | 335.0 |
| 57.5° | 275.2 | 276.7 | 280.0 | 281.6 | 280.0 | 284.9 | 286.5 | 289.7 | 291.4 | 294.6 | 296.2 |
| 60° | 241.1 | 244.4 | 246.0 | 246.0 | 247.6 | 249.3 | 252.5 | 252.5 | 255.7 | 259.0 | 259.0 |
| 62.5° | 208.7 | 210.4 | 212.1 | 213.6 | 215.2 | 213.6 | 218.4 | 218.4 | 221.7 | 223.4 | 226.6 |
| 65° | 178.0 | 179.7 | 179.7 | 181.3 | 181.3 | 182.9 | 182.9 | 184.5 | 186.2 | 189.4 | 191.0 |
| 67.5° | 147.3 | 147.3 | 147.3 | 148.9 | 147.3 | 148.9 | 148.9 | 150.5 | 150.5 | 153.8 | 155.3 |
| 70° | 119.7 | 118.2 | 116.5 | 116.5 | 116.5 | 116.5 | 114.9 | 116.5 | 116.5 | 118.2 | 118.2 |
| 72.5° | 92.2 | 90.7 | 89.0 | 87.3 | 87.3 | 85.8 | 84.2 | 85.8 | 85.8 | 87.3 | 87.3 |
| 75° | 69.6 | 66.3 | 66.3 | 66.3 | 64.8 | 64.8 | 64.8 | 66.3 | 66.3 | 66.3 | 68.0 |
| 77.5° | 51.8 | 51.8 | 50.1 | 50.1 | 50.1 | 51.8 | 51.8 | 53.4 | 53.4 | 53.4 | 53.4 |
| 80° | 38.9 | 40.4 | 40.4 | 40.4 | 40.4 | 42.1 | 42.1 | 42.1 | 42.1 | 43.7 | 43.7 |
| 82.5° | 29.1 | 29.1 | 29.1 | 29.1 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 |
| 85° | 17.8 | 19.4 | 19.4 | 17.8 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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: P593600

CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 |
| 2.5° | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1118.3 | 1118.3 | 1118.3 | 1116.8 |
| 5° | 1095.7 | 1095.7 | 1095.7 | 1092.4 | 1094.1 | 1094.1 | 1090.9 | 1092.4 |
| 7.5° | 1071.4 | 1069.8 | 1068.2 | 1068.2 | 1066.5 | 1065.0 | 1063.3 | 1065.0 |
| 10° | 1043.9 | 1039.1 | 1039.1 | 1037.4 | 1037.4 | 1034.1 | 1034.1 | 1035.8 |
| 12.5° | 1013.1 | 1009.9 | 1009.9 | 1008.2 | 1006.7 | 1005.1 | 1003.4 | 1003.4 |
| 15° | 982.4 | 979.2 | 977.5 | 976.0 | 974.3 | 971.0 | 972.7 | 971.0 |
| 17.5° | 951.6 | 946.8 | 946.8 | 945.1 | 943.6 | 940.3 | 940.3 | 938.7 |
| 20° | 916.0 | 914.4 | 911.2 | 912.9 | 911.2 | 907.9 | 906.4 | 906.4 |
| 22.5° | 880.5 | 880.5 | 878.8 | 878.8 | 877.2 | 875.6 | 874.0 | 874.0 |
| 25° | 846.4 | 844.8 | 846.4 | 846.4 | 841.6 | 841.6 | 841.6 | 843.2 |
| 27.5° | 807.5 | 809.2 | 807.5 | 807.5 | 807.5 | 807.5 | 809.2 | 807.5 |
| 30° | 768.8 | 768.8 | 768.8 | 770.4 | 773.6 | 772.0 | 772.0 | 770.4 |
| 32.5° | 726.7 | 728.3 | 728.3 | 729.9 | 731.5 | 734.7 | 734.7 | 736.4 |
| 35° | 684.6 | 687.8 | 689.5 | 687.8 | 692.7 | 692.7 | 696.0 | 696.0 |
| 37.5° | 640.9 | 642.5 | 645.7 | 647.4 | 650.6 | 652.2 | 653.9 | 653.9 |
| 40° | 594.0 | 600.5 | 602.1 | 603.6 | 608.5 | 608.5 | 610.1 | 613.3 |
| 42.5° | 550.2 | 556.7 | 558.4 | 560.0 | 563.2 | 568.1 | 566.4 | 569.7 |
| 45° | 508.1 | 513.0 | 514.6 | 516.3 | 521.1 | 522.8 | 522.8 | 527.6 |
| 47.5° | 462.9 | 466.1 | 467.7 | 470.9 | 474.2 | 477.4 | 480.7 | 479.1 |
| 50° | 417.6 | 422.4 | 425.6 | 427.3 | 432.1 | 433.8 | 435.3 | 437.0 |
| 52.5° | 377.1 | 380.4 | 381.9 | 383.6 | 388.4 | 390.1 | 391.7 | 394.9 |
| 55° | 338.3 | 339.8 | 343.1 | 341.5 | 346.3 | 348.0 | 349.6 | 352.8 |
| 57.5° | 299.4 | 301.1 | 302.6 | 302.6 | 305.9 | 309.1 | 310.7 | 312.4 |
| 60° | 262.2 | 265.5 | 267.0 | 267.0 | 267.0 | 270.3 | 270.3 | 270.3 |
| 62.5° | 228.2 | 228.2 | 229.8 | 229.8 | 233.1 | 233.1 | 233.1 | 233.1 |
| 65° | 192.5 | 194.2 | 195.9 | 195.9 | 199.0 | 197.4 | 200.7 | 199.0 |
| 67.5° | 155.3 | 155.3 | 158.6 | 158.6 | 157.0 | 158.6 | 158.6 | 158.6 |
| 70° | 118.2 | 118.2 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 72.5° | 87.3 | 87.3 | 87.3 | 89.0 | 87.3 | 87.3 | 89.0 | 87.3 |
| 75° | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 |
| 77.5° | 53.4 | 53.4 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 |
| 80° | 43.7 | 43.7 | 43.7 | 43.7 | 45.3 | 43.7 | 43.7 | 43.7 |
| 82.5° | 32.4 | 30.7 | 32.4 | 30.7 | 32.4 | 32.4 | 32.4 | 32.4 |
| 85° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)