

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: P584013

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584013
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-HM80520835-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

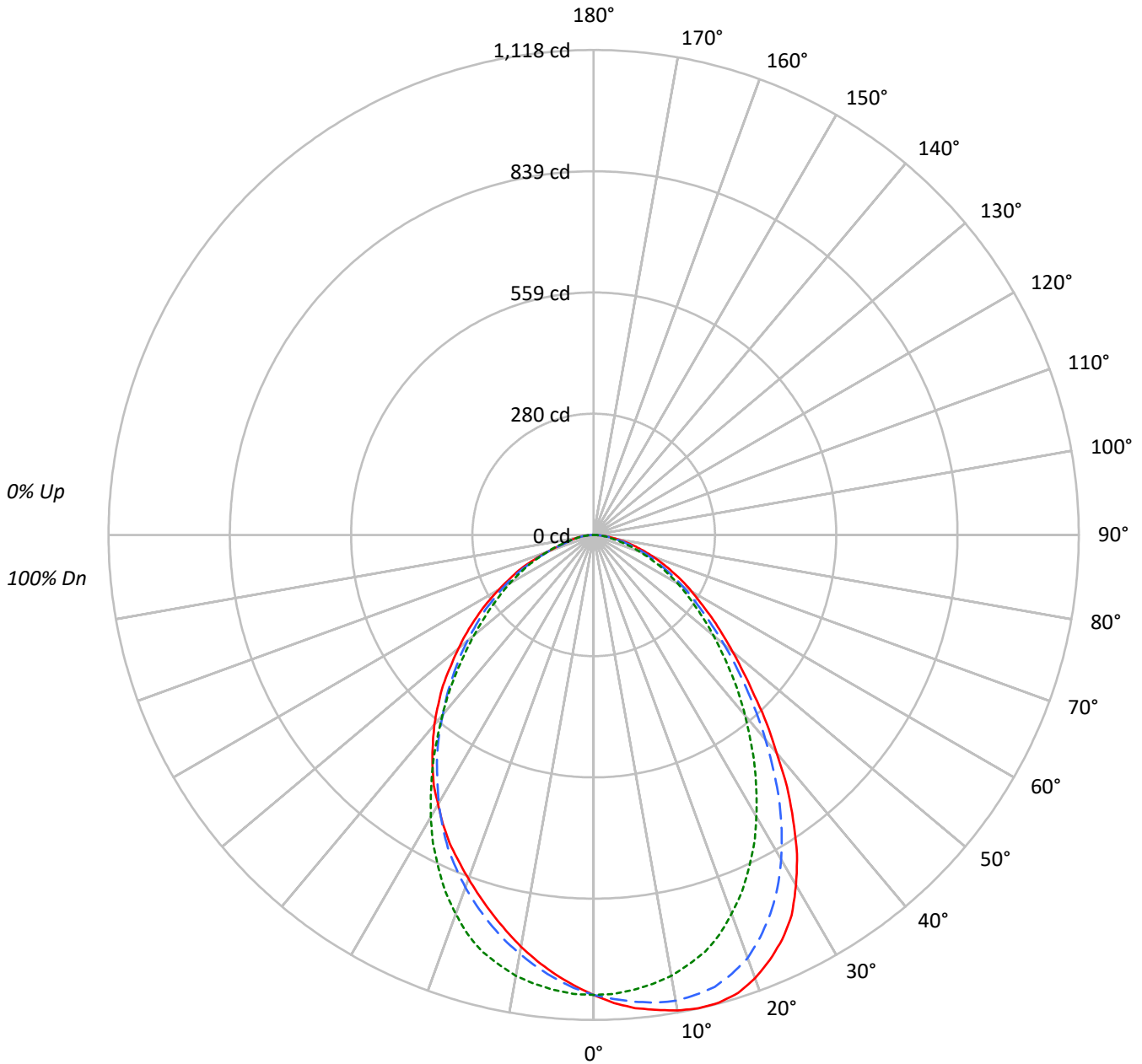
Lumens per Lamp: N/A
Luminaire Lumens: 2132.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584013
CATALOG NUMBER: HCC8W20D010MB-HM80520835-81WWWB

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 32702 | 32702 | 32702 |
| 5° | 33898 | 32592 | 31474 |
| 10° | 34857 | 32311 | 30185 |
| 15° | 35637 | 31739 | 28856 |
| 20° | 35690 | 30499 | 27683 |
| 25° | 35004 | 28801 | 26702 |
| 30° | 33203 | 26712 | 25530 |
| 35° | 30168 | 24326 | 24382 |
| 40° | 26378 | 21830 | 22981 |
| 45° | 22860 | 19445 | 21416 |
| 50° | 20014 | 17270 | 19511 |
| 55° | 17817 | 15306 | 17655 |
| 60° | 16072 | 13747 | 15511 |
| 65° | 14505 | 12090 | 13520 |
| 70° | 13037 | 10188 | 10053 |
| 75° | 11497 | 8066 | 7530 |
| 80° | 9643 | 6695 | 7227 |
| 85° | 7430 | 5838 | 6404 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.0 | 4.7 |
| 10°-20° | 281.8 | 13.2 |
| 20°-30° | 402.7 | 18.9 |
| 30°-40° | 427.9 | 20.1 |
| 40°-50° | 368.4 | 17.3 |
| 50°-60° | 275.4 | 12.9 |
| 60°-70° | 175.7 | 8.2 |
| 70°-80° | 80.0 | 3.7 |
| 80°-90° | 21.0 | 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° | 784.5 | 36.8 |
| 0°-40° | 1212.4 | 56.8 |
| 0°-60° | 1856.3 | 87.0 |
| 0°-90° | 2132.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2132.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1060 | 1060 | 1060 | 1060 | 1060 | |
| 5° | 1095 | 1080 | 1053 | 1026 | 1017 | 105 |
| 15° | 1116 | 1079 | 994 | 926 | 904 | 314 |
| 25° | 1029 | 964 | 846 | 795 | 785 | 471 |
| 35° | 801 | 746 | 646 | 630 | 648 | 499 |
| 45° | 524 | 496 | 446 | 458 | 491 | 408 |
| 55° | 331 | 304 | 285 | 309 | 328 | 298 |
| 65° | 199 | 176 | 166 | 173 | 185 | 198 |
| 75° | 96 | 83 | 68 | 62 | 63 | 102 |
| 85° | 21 | 18 | 16 | 18 | 18 | 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° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1080.1 | 1077.0 | 1078.6 | 1077.0 | 1078.6 | 1078.6 | 1075.5 | 1075.5 | 1075.5 | 1075.5 | 1071.0 |
| 5° | 1095.1 | 1093.6 | 1093.6 | 1092.2 | 1090.6 | 1092.2 | 1090.6 | 1089.1 | 1086.1 | 1084.6 | 1080.1 |
| 7.5° | 1104.2 | 1104.2 | 1104.2 | 1104.2 | 1102.7 | 1101.2 | 1099.6 | 1096.7 | 1093.6 | 1090.6 | 1087.6 |
| 10° | 1113.2 | 1114.7 | 1113.2 | 1111.7 | 1110.3 | 1107.2 | 1105.6 | 1102.7 | 1098.2 | 1093.6 | 1090.6 |
| 12.5° | 1117.7 | 1117.7 | 1116.3 | 1116.3 | 1113.2 | 1111.7 | 1107.2 | 1102.7 | 1098.2 | 1093.6 | 1086.1 |
| 15° | 1116.3 | 1116.3 | 1114.7 | 1113.2 | 1108.7 | 1107.2 | 1104.2 | 1099.6 | 1092.2 | 1086.1 | 1078.6 |
| 17.5° | 1107.2 | 1105.6 | 1102.7 | 1102.7 | 1096.7 | 1095.1 | 1092.2 | 1086.1 | 1078.6 | 1069.6 | 1060.5 |
| 20° | 1087.6 | 1087.6 | 1086.1 | 1084.6 | 1078.6 | 1074.1 | 1071.0 | 1063.6 | 1057.5 | 1046.9 | 1037.9 |
| 22.5° | 1060.5 | 1063.6 | 1060.5 | 1057.5 | 1050.0 | 1048.4 | 1043.9 | 1034.8 | 1025.9 | 1013.8 | 1003.3 |
| 25° | 1028.8 | 1027.4 | 1025.9 | 1022.8 | 1016.8 | 1013.8 | 1007.8 | 998.8 | 989.7 | 976.1 | 964.0 |
| 27.5° | 988.2 | 982.1 | 982.1 | 976.1 | 971.6 | 967.1 | 964.0 | 955.1 | 943.0 | 932.5 | 917.4 |
| 30° | 932.5 | 934.0 | 926.5 | 924.9 | 917.4 | 914.4 | 908.4 | 899.3 | 888.7 | 876.7 | 864.6 |
| 32.5° | 872.2 | 867.7 | 867.7 | 861.7 | 855.6 | 851.2 | 849.6 | 839.1 | 830.0 | 817.9 | 805.9 |
| 35° | 801.4 | 801.4 | 796.9 | 795.4 | 789.3 | 786.4 | 781.8 | 775.7 | 765.2 | 754.7 | 745.6 |
| 37.5° | 732.1 | 729.1 | 727.6 | 724.6 | 720.1 | 715.6 | 715.6 | 704.9 | 703.5 | 691.5 | 679.4 |
| 40° | 655.3 | 658.3 | 655.3 | 650.8 | 649.3 | 646.2 | 644.8 | 638.8 | 634.1 | 623.6 | 616.1 |
| 42.5° | 590.5 | 587.5 | 587.5 | 586.0 | 580.0 | 580.0 | 576.9 | 574.0 | 566.4 | 563.3 | 554.4 |
| 45° | 524.2 | 527.3 | 522.7 | 524.2 | 518.2 | 518.2 | 518.2 | 512.2 | 506.1 | 501.6 | 495.6 |
| 47.5° | 467.0 | 468.5 | 468.5 | 463.9 | 462.5 | 462.5 | 459.4 | 456.5 | 451.9 | 445.9 | 441.4 |
| 50° | 417.2 | 418.8 | 415.7 | 414.3 | 411.2 | 409.7 | 409.7 | 403.7 | 400.7 | 394.7 | 391.7 |
| 52.5° | 372.1 | 372.1 | 370.6 | 370.6 | 366.1 | 366.1 | 363.0 | 358.5 | 355.5 | 352.5 | 344.9 |
| 55° | 331.4 | 331.4 | 329.9 | 328.4 | 328.4 | 323.9 | 322.3 | 317.8 | 314.9 | 308.9 | 304.2 |
| 57.5° | 292.2 | 293.7 | 292.2 | 290.8 | 289.2 | 287.7 | 284.7 | 280.1 | 277.2 | 272.7 | 269.6 |
| 60° | 260.6 | 260.6 | 259.1 | 257.6 | 254.6 | 253.1 | 251.5 | 248.6 | 244.1 | 241.0 | 236.5 |
| 62.5° | 230.5 | 229.0 | 227.4 | 226.0 | 222.9 | 222.9 | 220.0 | 216.9 | 212.4 | 209.3 | 206.4 |
| 65° | 198.8 | 198.8 | 197.4 | 197.4 | 195.9 | 192.8 | 191.4 | 189.8 | 183.8 | 182.3 | 176.2 |
| 67.5° | 170.2 | 171.7 | 168.7 | 168.7 | 165.7 | 165.7 | 164.2 | 159.7 | 158.2 | 155.2 | 152.1 |
| 70° | 144.6 | 144.6 | 144.6 | 143.1 | 140.1 | 138.5 | 137.1 | 134.0 | 132.6 | 129.5 | 126.6 |
| 72.5° | 119.0 | 119.0 | 117.5 | 117.5 | 116.0 | 114.5 | 113.0 | 109.9 | 109.9 | 107.0 | 103.9 |
| 75° | 96.5 | 96.5 | 94.9 | 93.4 | 91.8 | 91.8 | 90.4 | 88.9 | 85.8 | 84.4 | 82.9 |
| 77.5° | 73.8 | 73.8 | 73.8 | 72.3 | 70.8 | 70.8 | 70.8 | 67.7 | 64.8 | 64.8 | 63.2 |
| 80° | 54.3 | 54.3 | 52.7 | 52.7 | 51.2 | 51.2 | 51.2 | 49.8 | 48.2 | 46.7 | 45.2 |
| 82.5° | 36.2 | 36.2 | 36.2 | 36.2 | 34.6 | 34.6 | 34.6 | 33.1 | 31.7 | 31.7 | 31.7 |
| 85° | 21.0 | 21.0 | 21.0 | 21.0 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 18.1 | 18.1 |
| 87.5° | 9.0 | 7.6 | 9.0 | 7.6 | 9.0 | 7.6 | 9.0 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1072.5 | 1071.0 | 1069.6 | 1068.1 | 1068.1 | 1066.5 | 1063.6 | 1062.0 | 1060.5 | 1059.0 | 1059.0 |
| 5° | 1078.6 | 1077.0 | 1074.1 | 1071.0 | 1069.6 | 1066.5 | 1063.6 | 1060.5 | 1057.5 | 1052.9 | 1051.5 |
| 7.5° | 1083.1 | 1078.6 | 1075.5 | 1069.6 | 1068.1 | 1065.0 | 1060.5 | 1056.0 | 1050.0 | 1043.9 | 1039.5 |
| 10° | 1083.1 | 1077.0 | 1072.5 | 1065.0 | 1062.0 | 1059.0 | 1052.9 | 1045.5 | 1037.9 | 1031.9 | 1024.3 |
| 12.5° | 1080.1 | 1072.5 | 1065.0 | 1057.5 | 1052.9 | 1048.4 | 1039.5 | 1031.9 | 1022.8 | 1013.8 | 1007.8 |
| 15° | 1069.6 | 1060.5 | 1051.5 | 1042.4 | 1037.9 | 1031.9 | 1022.8 | 1012.3 | 1003.3 | 994.2 | 983.7 |
| 17.5° | 1050.0 | 1040.9 | 1030.3 | 1019.8 | 1013.8 | 1009.3 | 995.7 | 988.2 | 974.7 | 965.6 | 956.6 |
| 20° | 1024.3 | 1013.8 | 1000.2 | 989.7 | 982.1 | 977.6 | 967.1 | 953.5 | 943.0 | 929.4 | 920.4 |
| 22.5° | 991.2 | 977.6 | 964.0 | 953.5 | 946.0 | 940.0 | 926.5 | 912.9 | 903.9 | 891.8 | 881.2 |
| 25° | 952.0 | 938.5 | 924.9 | 909.9 | 902.3 | 896.3 | 884.3 | 872.2 | 860.1 | 846.5 | 837.6 |
| 27.5° | 905.3 | 890.3 | 878.2 | 864.6 | 857.2 | 848.1 | 834.5 | 822.4 | 810.4 | 801.4 | 789.3 |
| 30° | 854.1 | 837.6 | 825.5 | 811.9 | 804.5 | 796.9 | 783.3 | 771.3 | 760.7 | 750.2 | 744.2 |
| 32.5° | 792.4 | 780.4 | 768.3 | 754.7 | 748.7 | 744.2 | 730.6 | 718.5 | 706.5 | 697.5 | 692.9 |
| 35° | 733.7 | 720.1 | 709.6 | 697.5 | 689.9 | 685.4 | 673.4 | 662.9 | 656.8 | 646.2 | 640.2 |
| 37.5° | 671.8 | 661.3 | 649.3 | 637.2 | 632.7 | 628.1 | 619.1 | 608.6 | 599.5 | 592.1 | 589.0 |
| 40° | 607.1 | 598.1 | 587.5 | 580.0 | 575.4 | 570.9 | 563.3 | 555.9 | 549.9 | 542.3 | 539.2 |
| 42.5° | 545.3 | 539.2 | 530.2 | 521.3 | 516.7 | 515.2 | 506.1 | 500.1 | 497.1 | 494.1 | 491.1 |
| 45° | 489.6 | 480.5 | 474.5 | 468.5 | 463.9 | 461.0 | 456.5 | 451.9 | 448.9 | 445.9 | 442.9 |
| 47.5° | 435.3 | 427.8 | 421.7 | 417.2 | 412.8 | 411.2 | 408.3 | 403.7 | 400.7 | 400.7 | 400.7 |
| 50° | 385.7 | 379.7 | 373.6 | 370.6 | 369.0 | 366.1 | 363.0 | 361.6 | 360.0 | 360.0 | 360.0 |
| 52.5° | 342.0 | 335.9 | 331.4 | 328.4 | 328.4 | 325.4 | 322.3 | 320.9 | 320.9 | 320.9 | 320.9 |
| 55° | 301.3 | 296.8 | 293.7 | 290.8 | 287.7 | 286.2 | 286.2 | 286.2 | 284.7 | 284.7 | 286.2 |
| 57.5° | 265.1 | 262.2 | 257.6 | 254.6 | 253.1 | 253.1 | 251.5 | 250.1 | 251.5 | 253.1 | 254.6 |
| 60° | 232.0 | 229.0 | 227.4 | 222.9 | 222.9 | 222.9 | 221.4 | 221.4 | 221.4 | 222.9 | 224.5 |
| 62.5° | 201.9 | 200.3 | 197.4 | 195.9 | 194.3 | 194.3 | 192.8 | 192.8 | 192.8 | 192.8 | 194.3 |
| 65° | 174.7 | 171.7 | 168.7 | 168.7 | 168.7 | 167.3 | 167.3 | 164.2 | 165.7 | 165.7 | 164.2 |
| 67.5° | 149.2 | 146.1 | 144.6 | 143.1 | 141.6 | 141.6 | 140.1 | 138.5 | 137.1 | 137.1 | 137.1 |
| 70° | 125.1 | 122.0 | 122.0 | 119.0 | 119.0 | 117.5 | 116.0 | 116.0 | 114.5 | 113.0 | 111.5 |
| 72.5° | 100.9 | 99.4 | 97.9 | 96.5 | 96.5 | 96.5 | 94.9 | 93.4 | 91.8 | 90.4 | 87.3 |
| 75° | 79.8 | 79.8 | 76.8 | 75.3 | 75.3 | 73.8 | 72.3 | 70.8 | 69.3 | 67.7 | 66.3 |
| 77.5° | 61.8 | 60.3 | 57.2 | 55.8 | 55.8 | 55.8 | 54.3 | 52.7 | 51.2 | 49.8 | 48.2 |
| 80° | 45.2 | 43.7 | 42.2 | 40.7 | 40.7 | 40.7 | 39.1 | 39.1 | 37.7 | 37.7 | 37.7 |
| 82.5° | 30.1 | 30.1 | 28.6 | 28.6 | 28.6 | 28.6 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| 85° | 18.1 | 18.1 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 87.5° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1056.0 | 1056.0 | 1052.9 | 1051.5 | 1050.0 | 1051.5 | 1048.4 | 1046.9 | 1045.5 | 1045.5 | 1043.9 |
| 5° | 1046.9 | 1045.5 | 1039.5 | 1037.9 | 1036.4 | 1034.8 | 1031.9 | 1028.8 | 1025.9 | 1024.3 | 1022.8 |
| 7.5° | 1034.8 | 1030.3 | 1024.3 | 1022.8 | 1021.4 | 1016.8 | 1012.3 | 1009.3 | 1004.8 | 1003.3 | 1000.2 |
| 10° | 1018.3 | 1012.3 | 1007.8 | 1003.3 | 1000.2 | 995.7 | 991.2 | 986.7 | 980.7 | 979.2 | 974.7 |
| 12.5° | 998.8 | 991.2 | 982.1 | 980.7 | 976.1 | 970.1 | 964.0 | 959.5 | 955.1 | 952.0 | 947.5 |
| 15° | 974.7 | 967.1 | 958.0 | 953.5 | 949.0 | 944.5 | 937.0 | 930.9 | 926.5 | 922.0 | 917.4 |
| 17.5° | 946.0 | 937.0 | 929.4 | 924.9 | 922.0 | 914.4 | 908.4 | 900.8 | 896.3 | 891.8 | 887.2 |
| 20° | 911.3 | 903.9 | 893.2 | 888.7 | 887.2 | 881.2 | 873.7 | 870.7 | 864.6 | 860.1 | 857.2 |
| 22.5° | 872.2 | 864.6 | 855.6 | 852.6 | 846.5 | 843.6 | 836.0 | 833.1 | 830.0 | 825.5 | 824.0 |
| 25° | 828.5 | 821.0 | 813.5 | 811.9 | 807.4 | 804.5 | 799.9 | 795.4 | 795.4 | 790.9 | 790.9 |
| 27.5° | 783.3 | 775.7 | 769.7 | 766.8 | 765.2 | 762.3 | 757.7 | 756.2 | 754.7 | 753.2 | 753.2 |
| 30° | 735.1 | 726.1 | 723.0 | 721.6 | 720.1 | 717.0 | 715.6 | 712.5 | 714.0 | 715.6 | 714.0 |
| 32.5° | 683.9 | 680.8 | 674.8 | 671.8 | 673.4 | 671.8 | 668.9 | 671.8 | 670.3 | 673.4 | 674.8 |
| 35° | 634.1 | 631.2 | 628.1 | 628.1 | 625.2 | 625.2 | 625.2 | 626.7 | 629.7 | 631.2 | 634.1 |
| 37.5° | 586.0 | 581.4 | 580.0 | 578.5 | 580.0 | 580.0 | 580.0 | 583.0 | 586.0 | 589.0 | 593.5 |
| 40° | 534.7 | 531.8 | 531.8 | 531.8 | 531.8 | 536.3 | 534.7 | 537.8 | 540.8 | 545.3 | 549.9 |
| 42.5° | 486.5 | 486.5 | 488.0 | 488.0 | 488.0 | 488.0 | 491.1 | 495.6 | 500.1 | 504.6 | 509.2 |
| 45° | 441.4 | 441.4 | 441.4 | 444.4 | 444.4 | 445.9 | 451.9 | 455.0 | 457.9 | 462.5 | 467.0 |
| 47.5° | 399.2 | 399.2 | 400.7 | 402.2 | 403.7 | 406.7 | 409.7 | 414.3 | 418.8 | 421.7 | 426.3 |
| 50° | 360.0 | 361.6 | 364.5 | 367.6 | 367.6 | 369.0 | 373.6 | 376.6 | 379.7 | 384.2 | 385.7 |
| 52.5° | 322.3 | 325.4 | 328.4 | 329.9 | 331.4 | 334.4 | 335.9 | 340.4 | 342.0 | 346.4 | 348.0 |
| 55° | 287.7 | 289.2 | 293.7 | 295.3 | 295.3 | 298.2 | 301.3 | 304.2 | 308.9 | 308.9 | 311.8 |
| 57.5° | 256.1 | 257.6 | 260.6 | 262.2 | 260.6 | 265.1 | 266.7 | 269.6 | 271.2 | 274.1 | 275.6 |
| 60° | 224.5 | 227.4 | 229.0 | 229.0 | 230.5 | 232.0 | 235.0 | 235.0 | 238.1 | 241.0 | 241.0 |
| 62.5° | 194.3 | 195.9 | 197.4 | 198.8 | 200.3 | 198.8 | 203.3 | 203.3 | 206.4 | 207.9 | 210.9 |
| 65° | 165.7 | 167.3 | 167.3 | 168.7 | 168.7 | 170.2 | 170.2 | 171.7 | 173.3 | 176.2 | 177.8 |
| 67.5° | 137.1 | 137.1 | 137.1 | 138.5 | 137.1 | 138.5 | 138.5 | 140.1 | 140.1 | 143.1 | 144.6 |
| 70° | 111.5 | 109.9 | 108.5 | 108.5 | 108.5 | 108.5 | 107.0 | 108.5 | 108.5 | 109.9 | 109.9 |
| 72.5° | 85.8 | 84.4 | 82.9 | 81.3 | 81.3 | 79.8 | 78.4 | 79.8 | 79.8 | 81.3 | 81.3 |
| 75° | 64.8 | 61.8 | 61.8 | 61.8 | 60.3 | 60.3 | 60.3 | 61.8 | 61.8 | 61.8 | 63.2 |
| 77.5° | 48.2 | 48.2 | 46.7 | 46.7 | 46.7 | 48.2 | 48.2 | 49.8 | 49.8 | 49.8 | 49.8 |
| 80° | 36.2 | 37.7 | 37.7 | 37.7 | 37.7 | 39.1 | 39.1 | 39.1 | 39.1 | 40.7 | 40.7 |
| 82.5° | 27.1 | 27.1 | 27.1 | 27.1 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 |
| 85° | 16.5 | 18.1 | 18.1 | 16.5 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| 87.5° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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: P584013

CATALOG NUMBER: HCC8W20D010MB-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1040.9 | 1040.9 | 1040.9 | 1039.5 |
| 5° | 1019.8 | 1019.8 | 1019.8 | 1016.8 | 1018.3 | 1018.3 | 1015.3 | 1016.8 |
| 7.5° | 997.3 | 995.7 | 994.2 | 994.2 | 992.8 | 991.2 | 989.7 | 991.2 |
| 10° | 971.6 | 967.1 | 967.1 | 965.6 | 965.6 | 962.6 | 962.6 | 964.0 |
| 12.5° | 943.0 | 940.0 | 940.0 | 938.5 | 937.0 | 935.4 | 934.0 | 934.0 |
| 15° | 914.4 | 911.3 | 909.9 | 908.4 | 906.8 | 903.9 | 905.3 | 903.9 |
| 17.5° | 885.8 | 881.2 | 881.2 | 879.8 | 878.2 | 875.2 | 875.2 | 873.7 |
| 20° | 852.6 | 851.2 | 848.1 | 849.6 | 848.1 | 845.1 | 843.6 | 843.6 |
| 22.5° | 819.5 | 819.5 | 817.9 | 817.9 | 816.4 | 815.0 | 813.5 | 813.5 |
| 25° | 787.8 | 786.4 | 787.8 | 787.8 | 783.3 | 783.3 | 783.3 | 784.8 |
| 27.5° | 751.6 | 753.2 | 751.6 | 751.6 | 751.6 | 751.6 | 753.2 | 751.6 |
| 30° | 715.6 | 715.6 | 715.6 | 717.0 | 720.1 | 718.5 | 718.5 | 717.0 |
| 32.5° | 676.3 | 677.9 | 677.9 | 679.4 | 680.8 | 683.9 | 683.9 | 685.4 |
| 35° | 637.2 | 640.2 | 641.7 | 640.2 | 644.8 | 644.8 | 647.7 | 647.7 |
| 37.5° | 596.6 | 598.1 | 601.0 | 602.6 | 605.5 | 607.1 | 608.6 | 608.6 |
| 40° | 552.8 | 558.8 | 560.4 | 561.9 | 566.4 | 566.4 | 568.0 | 570.9 |
| 42.5° | 512.2 | 518.2 | 519.7 | 521.3 | 524.2 | 528.7 | 527.3 | 530.2 |
| 45° | 473.0 | 477.5 | 479.1 | 480.5 | 485.1 | 486.5 | 486.5 | 491.1 |
| 47.5° | 430.8 | 433.8 | 435.3 | 438.4 | 441.4 | 444.4 | 447.4 | 445.9 |
| 50° | 388.6 | 393.1 | 396.2 | 397.7 | 402.2 | 403.7 | 405.2 | 406.7 |
| 52.5° | 350.9 | 354.0 | 355.5 | 357.0 | 361.6 | 363.0 | 364.5 | 367.6 |
| 55° | 314.9 | 316.3 | 319.4 | 317.8 | 322.3 | 323.9 | 325.4 | 328.4 |
| 57.5° | 278.7 | 280.1 | 281.7 | 281.7 | 284.7 | 287.7 | 289.2 | 290.8 |
| 60° | 244.1 | 247.0 | 248.6 | 248.6 | 248.6 | 251.5 | 251.5 | 251.5 |
| 62.5° | 212.4 | 212.4 | 213.9 | 213.9 | 216.9 | 216.9 | 216.9 | 216.9 |
| 65° | 179.3 | 180.7 | 182.3 | 182.3 | 185.3 | 183.8 | 186.8 | 185.3 |
| 67.5° | 144.6 | 144.6 | 147.6 | 147.6 | 146.1 | 147.6 | 147.6 | 147.6 |
| 70° | 109.9 | 109.9 | 111.5 | 111.5 | 111.5 | 111.5 | 111.5 | 111.5 |
| 72.5° | 81.3 | 81.3 | 81.3 | 82.9 | 81.3 | 81.3 | 82.9 | 81.3 |
| 75° | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 |
| 77.5° | 49.8 | 49.8 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| 80° | 40.7 | 40.7 | 40.7 | 40.7 | 42.2 | 40.7 | 40.7 | 40.7 |
| 82.5° | 30.1 | 28.6 | 30.1 | 28.6 | 30.1 | 30.1 | 30.1 | 30.1 |
| 85° | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| 87.5° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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)