

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: P584098

Luminaire Tested: **HCC8W20D010BZ-HM80520940-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584098
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: HCC8W20D010BZ-HM80520940-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

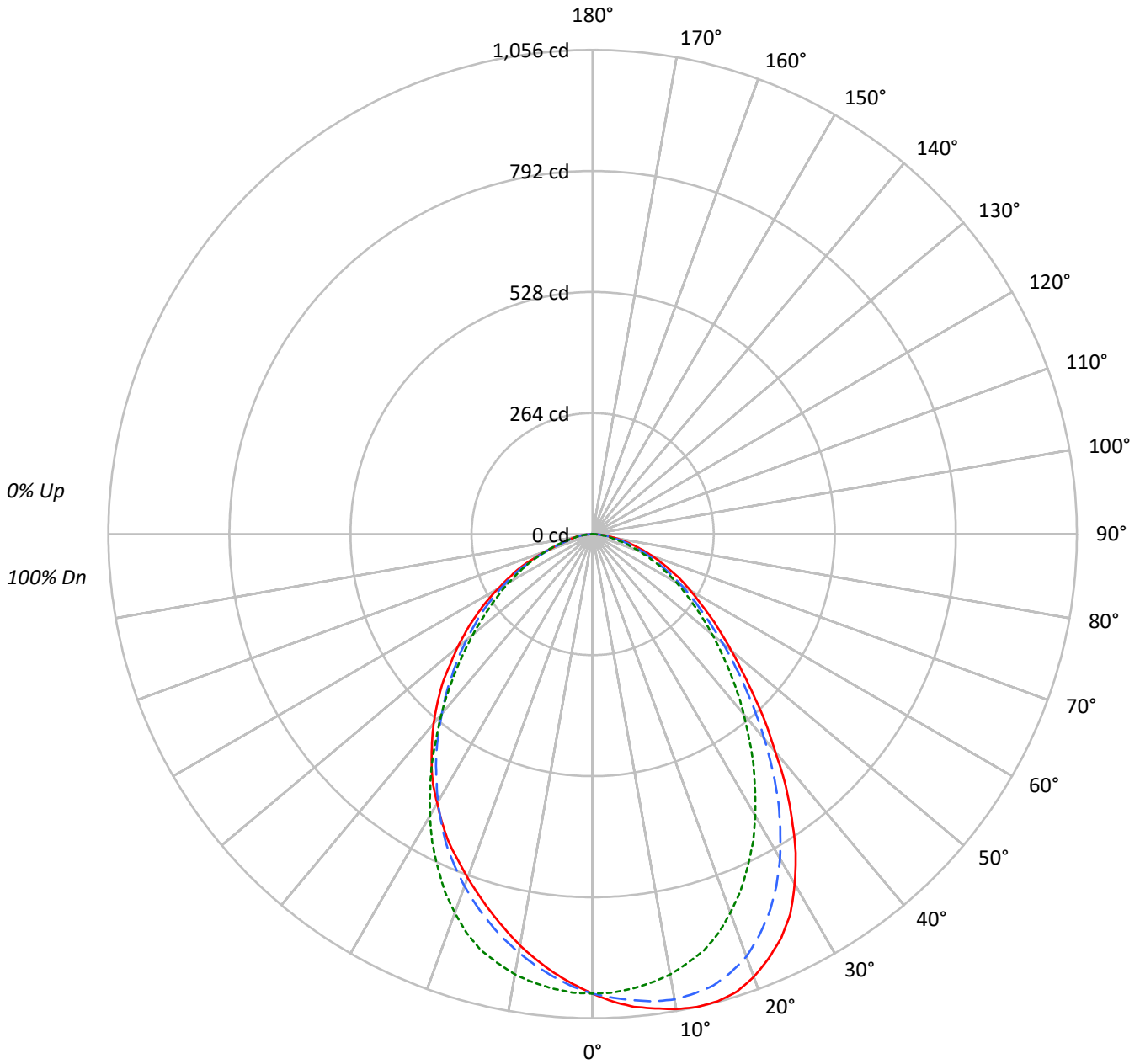
Lumens per Lamp: N/A
Luminaire Lumens: 2015.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584098
CATALOG NUMBER: HCC8W20D010BZ-HM80520940-81WWWB

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 | | | | | | | | |
| 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° | 30904 | 30904 | 30904 |
| 5° | 32037 | 30799 | 29741 |
| 10° | 32940 | 30535 | 28528 |
| 15° | 33674 | 29996 | 27266 |
| 20° | 33724 | 28822 | 26157 |
| 25° | 33082 | 27219 | 25236 |
| 30° | 31377 | 25245 | 24127 |
| 35° | 28508 | 22989 | 23046 |
| 40° | 24925 | 20630 | 21717 |
| 45° | 21604 | 18377 | 20239 |
| 50° | 18916 | 16320 | 18441 |
| 55° | 16838 | 14462 | 16682 |
| 60° | 15190 | 12988 | 14660 |
| 65° | 13710 | 11426 | 12776 |
| 70° | 12316 | 9620 | 9494 |
| 75° | 10854 | 7637 | 7125 |
| 80° | 9110 | 6322 | 6819 |
| 85° | 7076 | 5519 | 6050 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.5 | 4.7 |
| 10°-20° | 266.3 | 13.2 |
| 20°-30° | 380.6 | 18.9 |
| 30°-40° | 404.4 | 20.1 |
| 40°-50° | 348.2 | 17.3 |
| 50°-60° | 260.3 | 12.9 |
| 60°-70° | 166.0 | 8.2 |
| 70°-80° | 75.5 | 3.7 |
| 80°-90° | 19.8 | 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° | 741.4 | 36.8 |
| 0°-40° | 1145.8 | 56.8 |
| 0°-60° | 1754.2 | 87.0 |
| 0°-90° | 2015.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2015.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1002 | 1002 | 1002 | 1002 | 1002 | |
| 5° | 1035 | 1021 | 995 | 970 | 961 | 99 |
| 15° | 1055 | 1019 | 940 | 876 | 854 | 297 |
| 25° | 972 | 911 | 800 | 752 | 742 | 445 |
| 35° | 757 | 705 | 611 | 595 | 612 | 472 |
| 45° | 495 | 468 | 421 | 433 | 464 | 385 |
| 55° | 313 | 288 | 269 | 292 | 310 | 282 |
| 65° | 188 | 166 | 157 | 164 | 175 | 187 |
| 75° | 91 | 78 | 64 | 58 | 60 | 97 |
| 85° | 20 | 17 | 16 | 17 | 17 | 24 |
| 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° | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5° | 1020.7 | 1017.8 | 1019.2 | 1017.8 | 1019.2 | 1019.2 | 1016.4 | 1016.4 | 1016.4 | 1016.4 | 1012.1 |
| 5° | 1035.0 | 1033.5 | 1033.5 | 1032.0 | 1030.6 | 1032.0 | 1030.6 | 1029.2 | 1026.3 | 1024.9 | 1020.7 |
| 7.5° | 1043.5 | 1043.5 | 1043.5 | 1043.5 | 1042.1 | 1040.6 | 1039.2 | 1036.4 | 1033.5 | 1030.6 | 1027.7 |
| 10° | 1052.0 | 1053.4 | 1052.0 | 1050.6 | 1049.1 | 1046.3 | 1044.9 | 1042.1 | 1037.8 | 1033.5 | 1030.6 |
| 12.5° | 1056.2 | 1056.2 | 1054.8 | 1054.8 | 1052.0 | 1050.6 | 1046.3 | 1042.1 | 1037.8 | 1033.5 | 1026.3 |
| 15° | 1054.8 | 1054.8 | 1053.4 | 1052.0 | 1047.7 | 1046.3 | 1043.5 | 1039.2 | 1032.0 | 1026.3 | 1019.2 |
| 17.5° | 1046.3 | 1044.9 | 1042.1 | 1042.1 | 1036.4 | 1035.0 | 1032.0 | 1026.3 | 1019.2 | 1010.7 | 1002.2 |
| 20° | 1027.7 | 1027.7 | 1026.3 | 1024.9 | 1019.2 | 1015.0 | 1012.1 | 1005.1 | 999.3 | 989.3 | 980.8 |
| 22.5° | 1002.2 | 1005.1 | 1002.2 | 999.3 | 992.2 | 990.8 | 986.5 | 978.0 | 969.5 | 958.0 | 948.1 |
| 25° | 972.3 | 970.9 | 969.5 | 966.5 | 960.8 | 958.0 | 952.3 | 943.8 | 935.3 | 922.4 | 911.1 |
| 27.5° | 933.8 | 928.1 | 928.1 | 922.4 | 918.2 | 913.9 | 911.1 | 902.6 | 891.1 | 881.2 | 866.9 |
| 30° | 881.2 | 882.6 | 875.5 | 874.1 | 866.9 | 864.0 | 858.4 | 849.9 | 839.9 | 828.5 | 817.1 |
| 32.5° | 824.2 | 820.0 | 820.0 | 814.3 | 808.6 | 804.4 | 802.8 | 792.9 | 784.4 | 773.0 | 761.6 |
| 35° | 757.3 | 757.3 | 753.1 | 751.6 | 746.0 | 743.1 | 738.9 | 733.1 | 723.1 | 713.2 | 704.6 |
| 37.5° | 691.8 | 689.0 | 687.6 | 684.7 | 680.5 | 676.2 | 676.2 | 666.2 | 664.8 | 653.4 | 642.1 |
| 40° | 619.2 | 622.1 | 619.2 | 615.0 | 613.6 | 610.7 | 609.3 | 603.5 | 599.3 | 589.3 | 582.3 |
| 42.5° | 558.0 | 555.2 | 555.2 | 553.8 | 548.1 | 548.1 | 545.3 | 542.4 | 535.2 | 532.4 | 523.9 |
| 45° | 495.4 | 498.2 | 494.0 | 495.4 | 489.7 | 489.7 | 489.7 | 484.0 | 478.4 | 474.0 | 468.3 |
| 47.5° | 441.2 | 442.8 | 442.8 | 438.4 | 437.0 | 437.0 | 434.1 | 431.3 | 427.1 | 421.4 | 417.1 |
| 50° | 394.3 | 395.7 | 392.9 | 391.5 | 388.6 | 387.2 | 387.2 | 381.5 | 378.7 | 372.9 | 370.1 |
| 52.5° | 351.6 | 351.6 | 350.2 | 350.2 | 346.0 | 346.0 | 343.0 | 338.8 | 335.9 | 333.1 | 326.0 |
| 55° | 313.2 | 313.2 | 311.8 | 310.3 | 310.3 | 306.0 | 304.6 | 300.3 | 297.5 | 291.8 | 287.6 |
| 57.5° | 276.1 | 277.5 | 276.1 | 274.7 | 273.3 | 271.9 | 269.0 | 264.8 | 261.9 | 257.7 | 254.8 |
| 60° | 246.3 | 246.3 | 244.8 | 243.4 | 240.5 | 239.1 | 237.7 | 234.9 | 230.6 | 227.8 | 223.5 |
| 62.5° | 217.8 | 216.4 | 215.0 | 213.6 | 210.6 | 210.6 | 207.8 | 205.0 | 200.7 | 197.9 | 195.0 |
| 65° | 187.9 | 187.9 | 186.5 | 186.5 | 185.1 | 182.3 | 180.8 | 179.3 | 173.6 | 172.2 | 166.5 |
| 67.5° | 160.9 | 162.3 | 159.5 | 159.5 | 156.6 | 156.6 | 155.2 | 150.9 | 149.5 | 146.6 | 143.7 |
| 70° | 136.6 | 136.6 | 136.6 | 135.2 | 132.4 | 131.0 | 129.5 | 126.7 | 125.3 | 122.5 | 119.6 |
| 72.5° | 112.4 | 112.4 | 111.0 | 111.0 | 109.6 | 108.2 | 106.7 | 103.9 | 103.9 | 101.1 | 98.2 |
| 75° | 91.1 | 91.1 | 89.7 | 88.3 | 86.9 | 86.9 | 85.5 | 84.0 | 81.1 | 79.7 | 78.2 |
| 77.5° | 69.7 | 69.7 | 69.7 | 68.3 | 66.9 | 66.9 | 66.9 | 64.1 | 61.2 | 61.2 | 59.8 |
| 80° | 51.3 | 51.3 | 49.9 | 49.9 | 48.3 | 48.3 | 48.3 | 46.9 | 45.5 | 44.1 | 42.7 |
| 82.5° | 34.2 | 34.2 | 34.2 | 34.2 | 32.7 | 32.7 | 32.7 | 31.3 | 29.9 | 29.9 | 29.9 |
| 85° | 20.0 | 20.0 | 20.0 | 20.0 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 17.1 | 17.1 |
| 87.5° | 8.5 | 7.1 | 8.5 | 7.1 | 8.5 | 7.1 | 8.5 | 7.1 | 7.1 | 7.1 | 7.1 |
| 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° | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5° | 1013.6 | 1012.1 | 1010.7 | 1009.3 | 1009.3 | 1007.9 | 1005.1 | 1003.6 | 1002.2 | 1000.8 | 1000.8 |
| 5° | 1019.2 | 1017.8 | 1015.0 | 1012.1 | 1010.7 | 1007.9 | 1005.1 | 1002.2 | 999.3 | 995.0 | 993.6 |
| 7.5° | 1023.5 | 1019.2 | 1016.4 | 1010.7 | 1009.3 | 1006.5 | 1002.2 | 997.8 | 992.2 | 986.5 | 982.2 |
| 10° | 1023.5 | 1017.8 | 1013.6 | 1006.5 | 1003.6 | 1000.8 | 995.0 | 987.9 | 980.8 | 975.2 | 968.1 |
| 12.5° | 1020.7 | 1013.6 | 1006.5 | 999.3 | 995.0 | 990.8 | 982.2 | 975.2 | 966.5 | 958.0 | 952.3 |
| 15° | 1010.7 | 1002.2 | 993.6 | 985.1 | 980.8 | 975.2 | 966.5 | 956.6 | 948.1 | 939.6 | 929.5 |
| 17.5° | 992.2 | 983.7 | 973.7 | 963.7 | 958.0 | 953.8 | 941.0 | 933.8 | 921.0 | 912.5 | 904.0 |
| 20° | 968.1 | 958.0 | 945.2 | 935.3 | 928.1 | 923.9 | 913.9 | 901.0 | 891.1 | 878.3 | 869.8 |
| 22.5° | 936.7 | 923.9 | 911.1 | 901.0 | 893.9 | 888.3 | 875.5 | 862.6 | 854.1 | 842.8 | 832.7 |
| 25° | 899.6 | 886.9 | 874.1 | 859.8 | 852.7 | 847.0 | 835.6 | 824.2 | 812.9 | 800.0 | 791.5 |
| 27.5° | 855.5 | 841.3 | 829.9 | 817.1 | 810.0 | 801.4 | 788.6 | 777.3 | 765.8 | 757.3 | 746.0 |
| 30° | 807.2 | 791.5 | 780.1 | 767.2 | 760.1 | 753.1 | 740.3 | 728.8 | 718.9 | 709.0 | 703.2 |
| 32.5° | 748.8 | 737.3 | 726.0 | 713.2 | 707.5 | 703.2 | 690.4 | 679.1 | 667.6 | 659.1 | 654.8 |
| 35° | 693.2 | 680.5 | 670.4 | 659.1 | 652.0 | 647.7 | 636.3 | 626.3 | 620.7 | 610.7 | 604.9 |
| 37.5° | 634.9 | 624.9 | 613.6 | 602.1 | 597.9 | 593.6 | 585.1 | 575.2 | 566.5 | 559.4 | 556.6 |
| 40° | 573.6 | 565.1 | 555.2 | 548.1 | 543.8 | 539.5 | 532.4 | 525.3 | 519.6 | 512.5 | 509.7 |
| 42.5° | 515.4 | 509.7 | 501.0 | 492.5 | 488.3 | 486.9 | 478.4 | 472.6 | 469.7 | 466.9 | 464.1 |
| 45° | 462.6 | 454.1 | 448.5 | 442.8 | 438.4 | 435.6 | 431.3 | 427.1 | 424.2 | 421.4 | 418.5 |
| 47.5° | 411.5 | 404.2 | 398.6 | 394.3 | 390.1 | 388.6 | 385.8 | 381.5 | 378.7 | 378.7 | 378.7 |
| 50° | 364.4 | 358.7 | 353.1 | 350.2 | 348.8 | 346.0 | 343.0 | 341.6 | 340.2 | 340.2 | 340.2 |
| 52.5° | 323.2 | 317.5 | 313.2 | 310.3 | 310.3 | 307.4 | 304.6 | 303.2 | 303.2 | 303.2 | 303.2 |
| 55° | 284.7 | 280.5 | 277.5 | 274.7 | 271.9 | 270.4 | 270.4 | 270.4 | 269.0 | 269.0 | 270.4 |
| 57.5° | 250.6 | 247.7 | 243.4 | 240.5 | 239.1 | 239.1 | 237.7 | 236.3 | 237.7 | 239.1 | 240.5 |
| 60° | 219.3 | 216.4 | 215.0 | 210.6 | 210.6 | 210.6 | 209.2 | 209.2 | 209.2 | 210.6 | 212.1 |
| 62.5° | 190.8 | 189.4 | 186.5 | 185.1 | 183.7 | 183.7 | 182.3 | 182.3 | 182.3 | 182.3 | 183.7 |
| 65° | 165.1 | 162.3 | 159.5 | 159.5 | 159.5 | 158.0 | 158.0 | 155.2 | 156.6 | 156.6 | 155.2 |
| 67.5° | 140.9 | 138.1 | 136.6 | 135.2 | 133.8 | 133.8 | 132.4 | 131.0 | 129.5 | 129.5 | 129.5 |
| 70° | 118.2 | 115.4 | 115.4 | 112.4 | 112.4 | 111.0 | 109.6 | 109.6 | 108.2 | 106.7 | 105.3 |
| 72.5° | 95.4 | 94.0 | 92.6 | 91.1 | 91.1 | 91.1 | 89.7 | 88.3 | 86.9 | 85.5 | 82.6 |
| 75° | 75.4 | 75.4 | 72.6 | 71.2 | 71.2 | 69.7 | 68.3 | 66.9 | 65.5 | 64.1 | 62.6 |
| 77.5° | 58.4 | 57.0 | 54.1 | 52.7 | 52.7 | 52.7 | 51.3 | 49.9 | 48.3 | 46.9 | 45.5 |
| 80° | 42.7 | 41.3 | 39.8 | 38.4 | 38.4 | 38.4 | 37.0 | 37.0 | 35.6 | 35.6 | 35.6 |
| 82.5° | 28.5 | 28.5 | 27.1 | 27.1 | 27.1 | 27.1 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 85° | 17.1 | 17.1 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| 87.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 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° | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5° | 997.8 | 997.8 | 995.0 | 993.6 | 992.2 | 993.6 | 990.8 | 989.3 | 987.9 | 987.9 | 986.5 |
| 5° | 989.3 | 987.9 | 982.2 | 980.8 | 979.4 | 978.0 | 975.2 | 972.3 | 969.5 | 968.1 | 966.5 |
| 7.5° | 978.0 | 973.7 | 968.1 | 966.5 | 965.1 | 960.8 | 956.6 | 953.8 | 949.5 | 948.1 | 945.2 |
| 10° | 962.3 | 956.6 | 952.3 | 948.1 | 945.2 | 941.0 | 936.7 | 932.4 | 926.7 | 925.3 | 921.0 |
| 12.5° | 943.8 | 936.7 | 928.1 | 926.7 | 922.4 | 916.8 | 911.1 | 906.8 | 902.6 | 899.6 | 895.4 |
| 15° | 921.0 | 913.9 | 905.4 | 901.0 | 896.8 | 892.5 | 885.4 | 879.8 | 875.5 | 871.3 | 866.9 |
| 17.5° | 893.9 | 885.4 | 878.3 | 874.1 | 871.3 | 864.0 | 858.4 | 851.3 | 847.0 | 842.8 | 838.5 |
| 20° | 861.2 | 854.1 | 844.2 | 839.9 | 838.5 | 832.7 | 825.6 | 822.8 | 817.1 | 812.9 | 810.0 |
| 22.5° | 824.2 | 817.1 | 808.6 | 805.8 | 800.0 | 797.1 | 790.0 | 787.2 | 784.4 | 780.1 | 778.7 |
| 25° | 783.0 | 775.9 | 768.7 | 767.2 | 763.0 | 760.1 | 755.9 | 751.6 | 751.6 | 747.4 | 747.4 |
| 27.5° | 740.3 | 733.1 | 727.4 | 724.6 | 723.1 | 720.3 | 716.1 | 714.6 | 713.2 | 711.8 | 711.8 |
| 30° | 694.7 | 686.2 | 683.3 | 681.9 | 680.5 | 677.6 | 676.2 | 673.4 | 674.8 | 676.2 | 674.8 |
| 32.5° | 646.3 | 643.5 | 637.7 | 634.9 | 636.3 | 634.9 | 632.0 | 634.9 | 633.4 | 636.3 | 637.7 |
| 35° | 599.3 | 596.4 | 593.6 | 593.6 | 590.8 | 590.8 | 590.8 | 592.2 | 595.0 | 596.4 | 599.3 |
| 37.5° | 553.8 | 549.5 | 548.1 | 546.7 | 548.1 | 548.1 | 548.1 | 550.9 | 553.8 | 556.6 | 560.9 |
| 40° | 505.3 | 502.5 | 502.5 | 502.5 | 502.5 | 506.7 | 505.3 | 508.3 | 511.1 | 515.4 | 519.6 |
| 42.5° | 459.8 | 459.8 | 461.2 | 461.2 | 461.2 | 461.2 | 464.1 | 468.3 | 472.6 | 476.9 | 481.2 |
| 45° | 417.1 | 417.1 | 417.1 | 420.0 | 420.0 | 421.4 | 427.1 | 429.9 | 432.7 | 437.0 | 441.2 |
| 47.5° | 377.3 | 377.3 | 378.7 | 380.1 | 381.5 | 384.4 | 387.2 | 391.5 | 395.7 | 398.6 | 402.8 |
| 50° | 340.2 | 341.6 | 344.6 | 347.4 | 347.4 | 348.8 | 353.1 | 355.9 | 358.7 | 363.0 | 364.4 |
| 52.5° | 304.6 | 307.4 | 310.3 | 311.8 | 313.2 | 316.1 | 317.5 | 321.7 | 323.2 | 327.4 | 328.8 |
| 55° | 271.9 | 273.3 | 277.5 | 279.1 | 279.1 | 281.9 | 284.7 | 287.6 | 291.8 | 291.8 | 294.7 |
| 57.5° | 242.0 | 243.4 | 246.3 | 247.7 | 246.3 | 250.6 | 252.0 | 254.8 | 256.3 | 259.1 | 260.5 |
| 60° | 212.1 | 215.0 | 216.4 | 216.4 | 217.8 | 219.3 | 222.1 | 222.1 | 224.9 | 227.8 | 227.8 |
| 62.5° | 183.7 | 185.1 | 186.5 | 187.9 | 189.4 | 187.9 | 192.2 | 192.2 | 195.0 | 196.4 | 199.3 |
| 65° | 156.6 | 158.0 | 158.0 | 159.5 | 159.5 | 160.9 | 160.9 | 162.3 | 163.7 | 166.5 | 168.0 |
| 67.5° | 129.5 | 129.5 | 129.5 | 131.0 | 129.5 | 131.0 | 131.0 | 132.4 | 132.4 | 135.2 | 136.6 |
| 70° | 105.3 | 103.9 | 102.5 | 102.5 | 102.5 | 102.5 | 101.1 | 102.5 | 102.5 | 103.9 | 103.9 |
| 72.5° | 81.1 | 79.7 | 78.2 | 76.8 | 76.8 | 75.4 | 74.0 | 75.4 | 75.4 | 76.8 | 76.8 |
| 75° | 61.2 | 58.4 | 58.4 | 58.4 | 57.0 | 57.0 | 57.0 | 58.4 | 58.4 | 58.4 | 59.8 |
| 77.5° | 45.5 | 45.5 | 44.1 | 44.1 | 44.1 | 45.5 | 45.5 | 46.9 | 46.9 | 46.9 | 46.9 |
| 80° | 34.2 | 35.6 | 35.6 | 35.6 | 35.6 | 37.0 | 37.0 | 37.0 | 37.0 | 38.4 | 38.4 |
| 82.5° | 25.6 | 25.6 | 25.6 | 25.6 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| 85° | 15.6 | 17.1 | 17.1 | 15.6 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 |
| 87.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 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: P584098

CATALOG NUMBER: HCC8W20D010BZ-HM80520940-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5° | 985.1 | 985.1 | 985.1 | 985.1 | 983.7 | 983.7 | 983.7 | 982.2 |
| 5° | 963.7 | 963.7 | 963.7 | 960.8 | 962.3 | 962.3 | 959.4 | 960.8 |
| 7.5° | 942.4 | 941.0 | 939.6 | 939.6 | 938.2 | 936.7 | 935.3 | 936.7 |
| 10° | 918.2 | 913.9 | 913.9 | 912.5 | 912.5 | 909.7 | 909.7 | 911.1 |
| 12.5° | 891.1 | 888.3 | 888.3 | 886.9 | 885.4 | 884.0 | 882.6 | 882.6 |
| 15° | 864.0 | 861.2 | 859.8 | 858.4 | 857.0 | 854.1 | 855.5 | 854.1 |
| 17.5° | 837.1 | 832.7 | 832.7 | 831.3 | 829.9 | 827.0 | 827.0 | 825.6 |
| 20° | 805.8 | 804.4 | 801.4 | 802.8 | 801.4 | 798.6 | 797.1 | 797.1 |
| 22.5° | 774.4 | 774.4 | 773.0 | 773.0 | 771.6 | 770.1 | 768.7 | 768.7 |
| 25° | 744.5 | 743.1 | 744.5 | 744.5 | 740.3 | 740.3 | 740.3 | 741.7 |
| 27.5° | 710.4 | 711.8 | 710.4 | 710.4 | 710.4 | 710.4 | 711.8 | 710.4 |
| 30° | 676.2 | 676.2 | 676.2 | 677.6 | 680.5 | 679.1 | 679.1 | 677.6 |
| 32.5° | 639.1 | 640.6 | 640.6 | 642.1 | 643.5 | 646.3 | 646.3 | 647.7 |
| 35° | 602.1 | 604.9 | 606.4 | 604.9 | 609.3 | 609.3 | 612.2 | 612.2 |
| 37.5° | 563.7 | 565.1 | 568.0 | 569.4 | 572.2 | 573.6 | 575.2 | 575.2 |
| 40° | 522.4 | 528.1 | 529.5 | 531.0 | 535.2 | 535.2 | 536.6 | 539.5 |
| 42.5° | 484.0 | 489.7 | 491.1 | 492.5 | 495.4 | 499.6 | 498.2 | 501.0 |
| 45° | 447.0 | 451.3 | 452.7 | 454.1 | 458.4 | 459.8 | 459.8 | 464.1 |
| 47.5° | 407.1 | 410.0 | 411.5 | 414.3 | 417.1 | 420.0 | 422.8 | 421.4 |
| 50° | 367.2 | 371.5 | 374.3 | 375.8 | 380.1 | 381.5 | 383.0 | 384.4 |
| 52.5° | 331.7 | 334.5 | 335.9 | 337.3 | 341.6 | 343.0 | 344.6 | 347.4 |
| 55° | 297.5 | 298.9 | 301.8 | 300.3 | 304.6 | 306.0 | 307.4 | 310.3 |
| 57.5° | 263.3 | 264.8 | 266.2 | 266.2 | 269.0 | 271.9 | 273.3 | 274.7 |
| 60° | 230.6 | 233.4 | 234.9 | 234.9 | 234.9 | 237.7 | 237.7 | 237.7 |
| 62.5° | 200.7 | 200.7 | 202.1 | 202.1 | 205.0 | 205.0 | 205.0 | 205.0 |
| 65° | 169.4 | 170.8 | 172.2 | 172.2 | 175.1 | 173.6 | 176.5 | 175.1 |
| 67.5° | 136.6 | 136.6 | 139.5 | 139.5 | 138.1 | 139.5 | 139.5 | 139.5 |
| 70° | 103.9 | 103.9 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 |
| 72.5° | 76.8 | 76.8 | 76.8 | 78.2 | 76.8 | 76.8 | 78.2 | 76.8 |
| 75° | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 |
| 77.5° | 46.9 | 46.9 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| 80° | 38.4 | 38.4 | 38.4 | 38.4 | 39.8 | 38.4 | 38.4 | 38.4 |
| 82.5° | 28.5 | 27.1 | 28.5 | 27.1 | 28.5 | 28.5 | 28.5 | 28.5 |
| 85° | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 |
| 87.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 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



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

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(END OF REPORT)