

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: P584046

Luminaire Tested: **HCC8S20D010BZ-HM80520927-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584046  
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: HCC8S20D010BZ-HM80520927-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

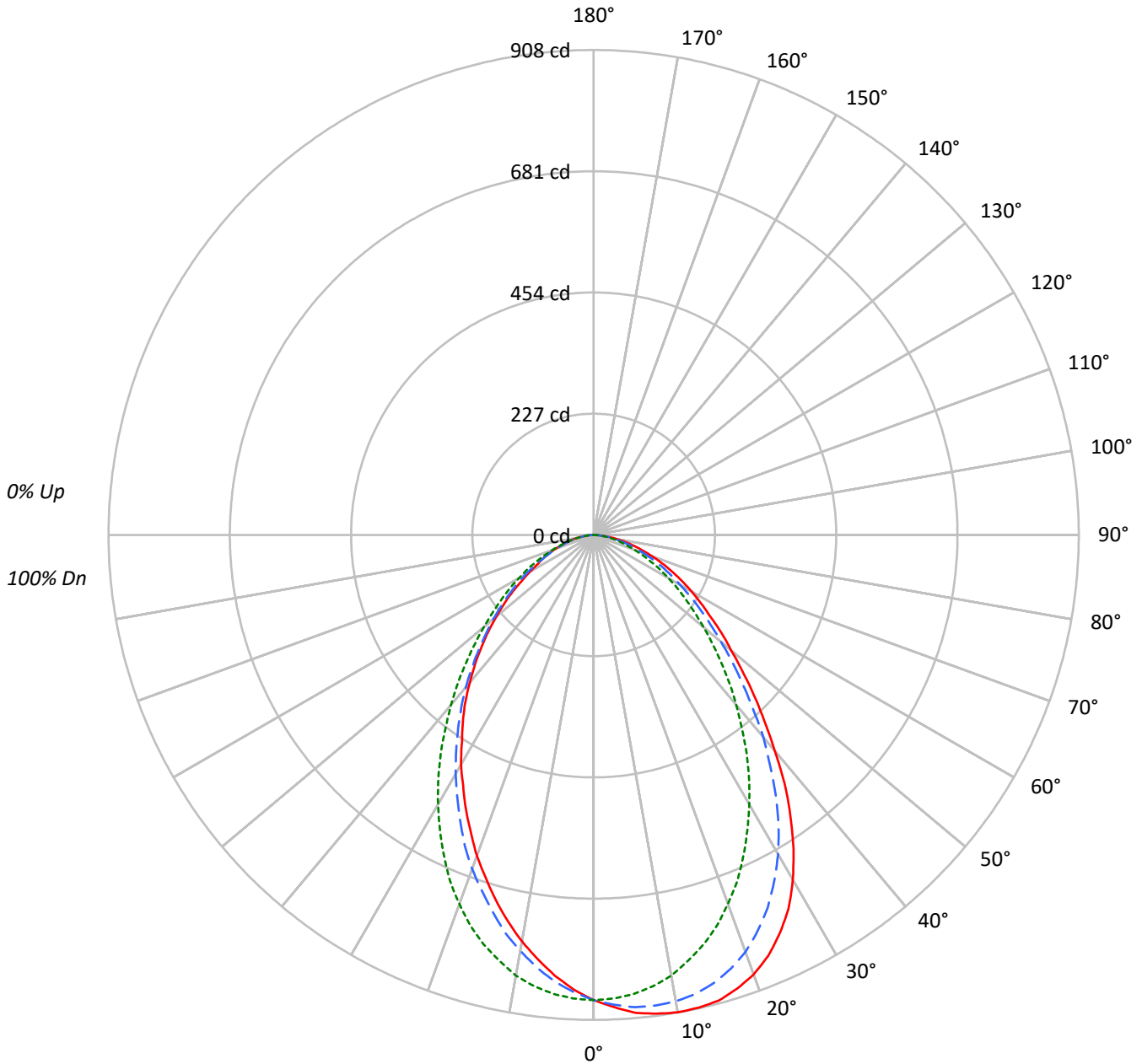
Lumens per Lamp: N/A  
Luminaire Lumens: 1607.6 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF  | 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  | 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°  | 26858 | 26858 | 26858 |
| 5°  | 27803 | 26704 | 25645 |
| 10° | 28422 | 26236 | 24201 |
| 15° | 28824 | 25354 | 22599 |
| 20° | 28736 | 24123 | 20979 |
| 25° | 28026 | 22558 | 19261 |
| 30° | 26552 | 20744 | 17672 |
| 35° | 24156 | 18773 | 16063 |
| 40° | 21218 | 16701 | 14512 |
| 45° | 18503 | 14692 | 12939 |
| 50° | 16104 | 12871 | 11398 |
| 55° | 14360 | 11311 | 9914  |
| 60° | 13050 | 9917  | 8455  |
| 65° | 11733 | 8624  | 7676  |
| 70° | 10440 | 7357  | 6924  |
| 75° | 9150  | 6195  | 5909  |
| 80° | 7760  | 5043  | 5256  |
| 85° | 5838  | 3750  | 4175  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.6   | 5.1       |
| 10°-20°   | 224.8  | 14.0      |
| 20°-30°   | 312.0  | 19.4      |
| 30°-40°   | 322.6  | 20.1      |
| 40°-50°   | 270.2  | 16.8      |
| 50°-60°   | 196.1  | 12.2      |
| 60°-70°   | 123.8  | 7.7       |
| 70°-80°   | 61.3   | 3.8       |
| 80°-90°   | 15.2   | 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°    | 618.4  | 38.5      |
| 0°-40°    | 941.0  | 58.5      |
| 0°-60°    | 1407.3 | 87.5      |
| 0°-90°    | 1607.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1607.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 871 | 871 | 871 | 871  | 871  |      |
| 5°  | 898 | 888 | 863 | 839  | 828  | 86   |
| 15° | 903 | 869 | 794 | 730  | 708  | 254  |
| 25° | 824 | 770 | 663 | 591  | 566  | 377  |
| 35° | 642 | 594 | 499 | 442  | 427  | 400  |
| 45° | 424 | 394 | 337 | 304  | 297  | 328  |
| 55° | 267 | 244 | 210 | 193  | 184  | 241  |
| 65° | 161 | 141 | 118 | 104  | 105  | 160  |
| 75° | 77  | 64  | 52  | 50   | 50   | 82   |
| 85° | 16  | 13  | 11  | 12   | 12   | 20   |
| 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°    | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 |
| 2.5°  | 885.2 | 885.2 | 886.4 | 885.2 | 885.2 | 885.2 | 884.0 | 884.0 | 882.8 | 882.8 | 880.5 |
| 5°    | 898.2 | 895.8 | 898.2 | 895.8 | 895.8 | 895.8 | 894.7 | 892.3 | 891.1 | 888.7 | 887.6 |
| 7.5°  | 904.1 | 902.9 | 902.9 | 901.7 | 901.7 | 900.6 | 899.4 | 898.2 | 893.5 | 892.3 | 888.7 |
| 10°   | 907.7 | 906.5 | 906.5 | 905.3 | 902.9 | 902.9 | 900.6 | 899.4 | 893.5 | 891.1 | 886.4 |
| 12.5° | 906.5 | 906.5 | 906.5 | 905.3 | 901.7 | 900.6 | 898.2 | 894.7 | 889.9 | 885.2 | 880.5 |
| 15°   | 902.9 | 902.9 | 900.6 | 899.4 | 895.8 | 893.5 | 892.3 | 886.4 | 881.7 | 875.7 | 868.7 |
| 17.5° | 891.1 | 891.1 | 889.9 | 887.6 | 884.0 | 881.7 | 879.3 | 873.4 | 868.7 | 859.2 | 852.1 |
| 20°   | 875.7 | 874.6 | 873.4 | 869.8 | 866.3 | 865.1 | 861.6 | 853.3 | 847.4 | 840.3 | 830.8 |
| 22.5° | 853.3 | 852.1 | 850.9 | 848.6 | 842.6 | 840.3 | 837.9 | 832.0 | 821.4 | 814.3 | 802.5 |
| 25°   | 823.7 | 823.7 | 821.4 | 817.8 | 811.9 | 809.6 | 806.0 | 800.1 | 790.6 | 780.0 | 770.5 |
| 27.5° | 789.5 | 788.3 | 784.7 | 782.4 | 777.6 | 774.1 | 768.2 | 761.1 | 751.6 | 743.4 | 731.5 |
| 30°   | 745.7 | 745.7 | 743.4 | 739.8 | 733.9 | 731.5 | 726.8 | 718.5 | 709.1 | 698.4 | 690.2 |
| 32.5° | 696.1 | 696.1 | 692.5 | 690.2 | 686.6 | 680.7 | 679.5 | 670.1 | 661.8 | 653.5 | 644.1 |
| 35°   | 641.7 | 642.9 | 640.5 | 635.8 | 629.9 | 629.9 | 627.5 | 619.2 | 609.8 | 601.5 | 594.4 |
| 37.5° | 587.3 | 583.8 | 582.6 | 580.2 | 576.7 | 572.0 | 569.6 | 566.1 | 557.8 | 551.9 | 541.2 |
| 40°   | 527.1 | 528.2 | 525.9 | 523.5 | 522.3 | 518.8 | 517.6 | 511.7 | 505.8 | 498.7 | 494.0 |
| 42.5° | 472.8 | 472.8 | 472.8 | 470.4 | 468.1 | 464.5 | 463.3 | 459.8 | 452.7 | 448.0 | 440.9 |
| 45°   | 424.3 | 420.8 | 420.8 | 419.6 | 418.4 | 416.1 | 412.5 | 410.2 | 405.4 | 401.9 | 393.6 |
| 47.5° | 377.1 | 378.2 | 377.1 | 375.9 | 372.3 | 371.1 | 370.0 | 365.2 | 360.5 | 357.0 | 351.1 |
| 50°   | 335.7 | 338.1 | 335.7 | 335.7 | 333.3 | 332.1 | 329.8 | 326.2 | 322.7 | 316.8 | 310.9 |
| 52.5° | 301.4 | 301.4 | 300.2 | 299.0 | 295.5 | 293.1 | 292.0 | 290.8 | 284.9 | 280.1 | 275.4 |
| 55°   | 267.1 | 268.3 | 268.3 | 264.8 | 263.6 | 261.2 | 260.0 | 256.5 | 254.1 | 247.0 | 243.5 |
| 57.5° | 237.6 | 236.4 | 237.6 | 235.2 | 232.9 | 230.5 | 229.3 | 226.9 | 223.4 | 218.7 | 213.9 |
| 60°   | 211.6 | 209.2 | 209.2 | 208.0 | 205.7 | 204.5 | 202.1 | 198.6 | 195.0 | 190.3 | 186.8 |
| 62.5° | 185.6 | 184.4 | 183.2 | 182.0 | 179.7 | 178.5 | 177.3 | 173.8 | 170.2 | 166.7 | 163.1 |
| 65°   | 160.8 | 160.8 | 159.6 | 157.2 | 156.0 | 154.8 | 153.7 | 151.3 | 146.6 | 144.2 | 140.7 |
| 67.5° | 138.3 | 137.1 | 137.1 | 134.7 | 132.4 | 131.2 | 131.2 | 128.8 | 125.3 | 121.7 | 119.4 |
| 70°   | 115.8 | 117.0 | 115.8 | 114.7 | 112.3 | 112.3 | 109.9 | 108.7 | 104.0 | 102.8 | 99.3  |
| 72.5° | 95.7  | 95.7  | 94.6  | 94.6  | 92.2  | 91.0  | 91.0  | 88.6  | 86.3  | 83.9  | 81.6  |
| 75°   | 76.8  | 76.8  | 76.8  | 75.6  | 74.5  | 72.1  | 72.1  | 70.9  | 68.6  | 66.2  | 63.8  |
| 77.5° | 60.3  | 59.1  | 59.1  | 57.9  | 56.7  | 55.6  | 55.6  | 54.4  | 52.0  | 50.8  | 48.5  |
| 80°   | 43.7  | 42.6  | 42.6  | 42.6  | 40.2  | 41.4  | 40.2  | 39.0  | 37.8  | 36.6  | 35.5  |
| 82.5° | 28.4  | 29.6  | 29.6  | 28.4  | 27.2  | 27.2  | 27.2  | 26.0  | 26.0  | 24.8  | 23.6  |
| 85°   | 16.5  | 16.5  | 16.5  | 16.5  | 15.4  | 15.4  | 15.4  | 14.2  | 14.2  | 14.2  | 13.0  |
| 87.5° | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 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°    | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 |
| 2.5°  | 880.5 | 878.1 | 876.9 | 875.7 | 875.7 | 874.6 | 873.4 | 871.0 | 871.0 | 868.7 | 867.5 |
| 5°    | 885.2 | 881.7 | 879.3 | 876.9 | 875.7 | 873.4 | 871.0 | 867.5 | 866.3 | 862.7 | 859.2 |
| 7.5°  | 886.4 | 880.5 | 878.1 | 873.4 | 871.0 | 868.7 | 863.9 | 860.4 | 855.6 | 852.1 | 847.4 |
| 10°   | 881.7 | 876.9 | 871.0 | 865.1 | 863.9 | 860.4 | 853.3 | 848.6 | 842.6 | 837.9 | 830.8 |
| 12.5° | 874.6 | 867.5 | 861.6 | 854.5 | 850.9 | 847.4 | 840.3 | 833.2 | 824.9 | 816.6 | 809.6 |
| 15°   | 862.7 | 854.5 | 846.2 | 837.9 | 833.2 | 829.6 | 821.4 | 813.1 | 804.8 | 794.2 | 787.1 |
| 17.5° | 845.0 | 835.6 | 827.3 | 816.6 | 811.9 | 808.4 | 797.7 | 788.3 | 777.6 | 767.0 | 759.9 |
| 20°   | 822.6 | 810.7 | 801.3 | 789.5 | 785.9 | 780.0 | 769.4 | 758.7 | 746.9 | 735.1 | 726.8 |
| 22.5° | 793.0 | 781.2 | 770.5 | 758.7 | 752.8 | 746.9 | 736.3 | 723.3 | 711.4 | 702.0 | 693.7 |
| 25°   | 758.7 | 748.1 | 735.1 | 724.4 | 717.4 | 710.3 | 698.4 | 687.8 | 677.2 | 663.0 | 654.7 |
| 27.5° | 720.9 | 707.9 | 698.4 | 684.3 | 677.2 | 672.4 | 659.4 | 645.3 | 635.8 | 622.8 | 613.3 |
| 30°   | 678.3 | 666.5 | 655.9 | 641.7 | 634.6 | 629.9 | 618.1 | 605.1 | 595.6 | 582.6 | 573.2 |
| 32.5° | 633.4 | 620.4 | 607.4 | 598.0 | 589.7 | 585.0 | 572.0 | 563.7 | 551.9 | 541.2 | 530.6 |
| 35°   | 585.0 | 572.0 | 562.5 | 549.5 | 544.8 | 540.1 | 529.4 | 518.8 | 508.1 | 498.7 | 490.5 |
| 37.5° | 533.0 | 523.5 | 512.9 | 503.4 | 499.9 | 495.1 | 482.3 | 472.8 | 464.5 | 455.1 | 448.0 |
| 40°   | 482.3 | 474.0 | 466.9 | 457.4 | 451.5 | 448.0 | 438.5 | 430.2 | 420.8 | 414.9 | 407.8 |
| 42.5° | 436.2 | 426.7 | 419.6 | 412.5 | 406.6 | 403.1 | 394.8 | 388.9 | 381.8 | 375.9 | 367.6 |
| 45°   | 387.7 | 383.0 | 374.7 | 368.8 | 365.2 | 360.5 | 354.6 | 347.5 | 341.6 | 336.9 | 331.0 |
| 47.5° | 345.1 | 340.4 | 334.5 | 327.4 | 325.0 | 321.5 | 315.6 | 310.9 | 306.1 | 301.4 | 295.5 |
| 50°   | 306.1 | 300.2 | 295.5 | 290.8 | 288.4 | 284.9 | 279.0 | 276.6 | 273.0 | 268.3 | 264.8 |
| 52.5° | 270.7 | 266.0 | 261.2 | 255.3 | 254.1 | 251.8 | 248.2 | 243.5 | 239.9 | 237.6 | 235.2 |
| 55°   | 238.8 | 234.0 | 230.5 | 225.8 | 224.6 | 222.2 | 217.5 | 215.1 | 212.8 | 210.4 | 208.0 |
| 57.5° | 210.4 | 205.7 | 200.9 | 198.6 | 196.2 | 193.8 | 192.7 | 189.1 | 186.8 | 185.6 | 183.2 |
| 60°   | 184.4 | 179.7 | 176.1 | 172.6 | 171.4 | 170.2 | 167.8 | 165.5 | 163.1 | 160.8 | 159.6 |
| 62.5° | 159.6 | 154.8 | 152.5 | 150.1 | 147.8 | 147.8 | 145.4 | 143.0 | 140.7 | 139.5 | 137.1 |
| 65°   | 137.1 | 134.7 | 131.2 | 127.7 | 126.5 | 126.5 | 122.9 | 121.7 | 120.6 | 118.2 | 115.8 |
| 67.5° | 115.8 | 113.5 | 109.9 | 108.7 | 107.6 | 106.4 | 105.2 | 102.8 | 100.5 | 99.3  | 96.9  |
| 70°   | 96.9  | 94.6  | 92.2  | 91.0  | 89.8  | 88.6  | 86.3  | 85.1  | 82.7  | 81.6  | 80.4  |
| 72.5° | 78.0  | 76.8  | 74.5  | 73.3  | 72.1  | 70.9  | 69.7  | 68.6  | 66.2  | 65.0  | 63.8  |
| 75°   | 62.6  | 61.5  | 59.1  | 57.9  | 56.7  | 56.7  | 55.6  | 53.2  | 52.0  | 52.0  | 50.8  |
| 77.5° | 47.3  | 46.1  | 44.9  | 43.7  | 42.6  | 42.6  | 41.4  | 40.2  | 39.0  | 39.0  | 37.8  |
| 80°   | 34.3  | 33.1  | 31.9  | 31.9  | 31.9  | 30.7  | 29.6  | 29.6  | 28.4  | 28.4  | 27.2  |
| 82.5° | 22.5  | 22.5  | 21.3  | 21.3  | 21.3  | 20.1  | 20.1  | 18.9  | 18.9  | 18.9  | 18.9  |
| 85°   | 13.0  | 13.0  | 13.0  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 10.6  | 11.8  |
| 87.5° | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 4.7   | 4.7   | 4.7   |
| 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°    | 871.0 | 871.0 | 871.0 | 871.0  | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 |
| 2.5°  | 866.3 | 865.1 | 862.7 | 862.7  | 860.4 | 860.4 | 859.2 | 858.0 | 856.8 | 855.6 | 854.5 |
| 5°    | 858.0 | 853.3 | 850.9 | 849.7  | 847.4 | 846.2 | 842.6 | 840.3 | 839.1 | 836.7 | 834.4 |
| 7.5°  | 842.6 | 837.9 | 833.2 | 832.0  | 830.8 | 826.1 | 822.6 | 819.0 | 816.6 | 814.3 | 811.9 |
| 10°   | 824.9 | 820.2 | 814.3 | 811.9  | 809.6 | 803.6 | 798.9 | 795.4 | 790.6 | 785.9 | 784.7 |
| 12.5° | 803.6 | 796.5 | 789.5 | 787.1  | 783.5 | 777.6 | 772.9 | 767.0 | 763.5 | 757.5 | 756.4 |
| 15°   | 778.8 | 770.5 | 764.6 | 758.7  | 756.4 | 750.5 | 742.2 | 737.4 | 730.4 | 728.0 | 722.1 |
| 17.5° | 749.3 | 741.0 | 732.7 | 730.4  | 726.8 | 718.5 | 710.3 | 704.4 | 697.3 | 693.7 | 690.2 |
| 20°   | 718.5 | 707.9 | 699.6 | 697.3  | 692.5 | 685.4 | 677.2 | 671.3 | 665.3 | 658.3 | 654.7 |
| 22.5° | 683.1 | 671.3 | 664.2 | 658.3  | 657.1 | 648.8 | 639.3 | 634.6 | 629.9 | 624.0 | 619.2 |
| 25°   | 644.1 | 633.4 | 625.2 | 620.4  | 618.1 | 611.0 | 603.9 | 598.0 | 590.9 | 587.3 | 581.4 |
| 27.5° | 603.9 | 596.8 | 586.2 | 581.4  | 577.9 | 572.0 | 563.7 | 560.1 | 553.1 | 548.3 | 544.8 |
| 30°   | 564.9 | 554.2 | 548.3 | 542.4  | 538.9 | 533.0 | 525.9 | 522.3 | 516.4 | 511.7 | 508.1 |
| 32.5° | 522.3 | 515.2 | 507.0 | 504.6  | 499.9 | 494.0 | 489.3 | 483.4 | 478.7 | 474.0 | 472.8 |
| 35°   | 483.4 | 474.0 | 465.7 | 463.3  | 459.8 | 453.9 | 451.5 | 448.0 | 442.1 | 440.9 | 436.2 |
| 37.5° | 440.9 | 436.2 | 426.7 | 423.2  | 422.0 | 417.2 | 412.5 | 410.2 | 406.6 | 403.1 | 401.9 |
| 40°   | 400.7 | 394.8 | 390.1 | 386.5  | 384.2 | 380.6 | 375.9 | 374.7 | 372.3 | 367.6 | 366.4 |
| 42.5° | 362.9 | 357.0 | 352.2 | 351.1  | 347.5 | 344.0 | 341.6 | 338.1 | 336.9 | 335.7 | 333.3 |
| 45°   | 326.2 | 322.7 | 318.0 | 316.8  | 315.6 | 310.9 | 308.5 | 306.1 | 303.8 | 302.6 | 300.2 |
| 47.5° | 293.1 | 289.6 | 286.0 | 284.9  | 282.5 | 281.3 | 277.8 | 276.6 | 273.0 | 271.9 | 270.7 |
| 50°   | 261.2 | 258.9 | 256.5 | 255.3  | 252.9 | 251.8 | 249.4 | 247.0 | 244.7 | 243.5 | 242.3 |
| 52.5° | 232.9 | 230.5 | 228.1 | 226.9  | 225.8 | 223.4 | 221.0 | 218.7 | 217.5 | 216.3 | 215.1 |
| 55°   | 205.7 | 203.3 | 202.1 | 200.9  | 199.8 | 198.6 | 195.0 | 193.8 | 192.7 | 191.5 | 189.1 |
| 57.5° | 180.8 | 178.5 | 176.1 | 176.1  | 174.9 | 173.8 | 171.4 | 169.0 | 169.0 | 166.7 | 164.3 |
| 60°   | 158.4 | 156.0 | 153.7 | 152.5  | 151.3 | 148.9 | 147.8 | 146.6 | 145.4 | 144.2 | 141.8 |
| 62.5° | 134.7 | 133.6 | 131.2 | 131.2  | 128.8 | 127.7 | 126.5 | 125.3 | 124.1 | 121.7 | 120.6 |
| 65°   | 114.7 | 113.5 | 111.1 | 109.9  | 109.9 | 108.7 | 106.4 | 105.2 | 104.0 | 104.0 | 102.8 |
| 67.5° | 95.7  | 94.6  | 92.2  | 91.0   | 91.0  | 89.8  | 88.6  | 88.6  | 87.5  | 86.3  | 87.5  |
| 70°   | 79.2  | 76.8  | 76.8  | 75.6   | 75.6  | 74.5  | 73.3  | 73.3  | 73.3  | 74.5  | 74.5  |
| 72.5° | 62.6  | 61.5  | 60.3  | 60.3   | 60.3  | 60.3  | 59.1  | 59.1  | 60.3  | 61.5  | 61.5  |
| 75°   | 49.6  | 48.5  | 48.5  | 48.5   | 47.3  | 47.3  | 48.5  | 48.5  | 49.6  | 49.6  | 49.6  |
| 77.5° | 36.6  | 36.6  | 36.6  | 36.6   | 36.6  | 36.6  | 37.8  | 37.8  | 39.0  | 39.0  | 39.0  |
| 80°   | 27.2  | 27.2  | 27.2  | 27.2   | 27.2  | 28.4  | 28.4  | 28.4  | 28.4  | 28.4  | 29.6  |
| 82.5° | 18.9  | 18.9  | 18.9  | 18.9   | 18.9  | 18.9  | 18.9  | 20.1  | 20.1  | 20.1  | 20.1  |
| 85°   | 10.6  | 11.8  | 11.8  | 11.8   | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 87.5° | 4.7   | 4.7   | 4.7   | 4.7    | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 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: P584046

CATALOG NUMBER: HCC8S20D010BZ-HM80520927-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 871.0 | 871.0 | 871.0  | 871.0 | 871.0 | 871.0 | 871.0 | 871.0 |
| 2.5°  | 853.3 | 853.3 | 853.3  | 854.5 | 852.1 | 852.1 | 852.1 | 852.1 |
| 5°    | 833.2 | 832.0 | 830.8  | 832.0 | 829.6 | 829.6 | 828.5 | 828.5 |
| 7.5°  | 808.4 | 807.2 | 806.0  | 806.0 | 803.6 | 803.6 | 802.5 | 801.3 |
| 10°   | 781.2 | 778.8 | 780.0  | 777.6 | 776.5 | 775.3 | 774.1 | 772.9 |
| 12.5° | 751.6 | 749.3 | 748.1  | 745.7 | 743.4 | 742.2 | 743.4 | 741.0 |
| 15°   | 719.7 | 716.2 | 715.0  | 712.6 | 710.3 | 709.1 | 709.1 | 707.9 |
| 17.5° | 684.3 | 681.9 | 680.7  | 678.3 | 677.2 | 674.8 | 673.6 | 672.4 |
| 20°   | 651.2 | 645.3 | 646.4  | 644.1 | 642.9 | 638.2 | 638.2 | 639.3 |
| 22.5° | 614.5 | 611.0 | 608.6  | 606.2 | 605.1 | 602.7 | 602.7 | 601.5 |
| 25°   | 577.9 | 574.3 | 573.2  | 570.8 | 569.6 | 567.2 | 566.1 | 566.1 |
| 27.5° | 542.4 | 537.7 | 537.7  | 535.3 | 533.0 | 531.8 | 530.6 | 529.4 |
| 30°   | 504.6 | 501.0 | 499.9  | 499.9 | 498.7 | 498.7 | 495.1 | 496.3 |
| 32.5° | 469.3 | 466.9 | 465.7  | 463.3 | 463.3 | 462.2 | 462.2 | 458.6 |
| 35°   | 433.8 | 430.2 | 431.4  | 429.1 | 427.9 | 426.7 | 427.9 | 426.7 |
| 37.5° | 399.5 | 397.2 | 397.2  | 394.8 | 394.8 | 393.6 | 392.4 | 394.8 |
| 40°   | 365.2 | 364.1 | 362.9  | 361.7 | 362.9 | 361.7 | 359.3 | 360.5 |
| 42.5° | 331.0 | 331.0 | 329.8  | 329.8 | 328.6 | 328.6 | 328.6 | 328.6 |
| 45°   | 300.2 | 299.0 | 299.0  | 297.9 | 297.9 | 297.9 | 297.9 | 296.7 |
| 47.5° | 269.5 | 268.3 | 268.3  | 268.3 | 267.1 | 267.1 | 266.0 | 267.1 |
| 50°   | 239.9 | 239.9 | 238.8  | 238.8 | 239.9 | 238.8 | 237.6 | 237.6 |
| 52.5° | 212.8 | 212.8 | 211.6  | 211.6 | 210.4 | 209.2 | 210.4 | 210.4 |
| 55°   | 187.9 | 186.8 | 185.6  | 185.6 | 184.4 | 183.2 | 183.2 | 184.4 |
| 57.5° | 164.3 | 163.1 | 161.9  | 161.9 | 159.6 | 158.4 | 158.4 | 158.4 |
| 60°   | 141.8 | 139.5 | 139.5  | 138.3 | 138.3 | 137.1 | 137.1 | 137.1 |
| 62.5° | 120.6 | 119.4 | 119.4  | 119.4 | 119.4 | 118.2 | 118.2 | 118.2 |
| 65°   | 102.8 | 102.8 | 102.8  | 104.0 | 104.0 | 105.2 | 105.2 | 105.2 |
| 67.5° | 88.6  | 89.8  | 89.8   | 89.8  | 91.0  | 91.0  | 91.0  | 89.8  |
| 70°   | 75.6  | 75.6  | 75.6   | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  |
| 72.5° | 62.6  | 62.6  | 62.6   | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  |
| 75°   | 49.6  | 50.8  | 50.8   | 50.8  | 49.6  | 50.8  | 50.8  | 49.6  |
| 77.5° | 39.0  | 39.0  | 39.0   | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  |
| 80°   | 29.6  | 29.6  | 29.6   | 29.6  | 29.6  | 29.6  | 29.6  | 29.6  |
| 82.5° | 20.1  | 20.1  | 20.1   | 20.1  | 20.1  | 20.1  | 20.1  | 20.1  |
| 85°   | 11.8  | 11.8  | 11.8   | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 87.5° | 4.7   | 4.7   | 4.7    | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 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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Scaled Data Report



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

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(END OF REPORT)