

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: P583881

Luminaire Tested: **HCC8S15D010BZ-HM80520835-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583881  
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: HCC8S15D010BZ-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**

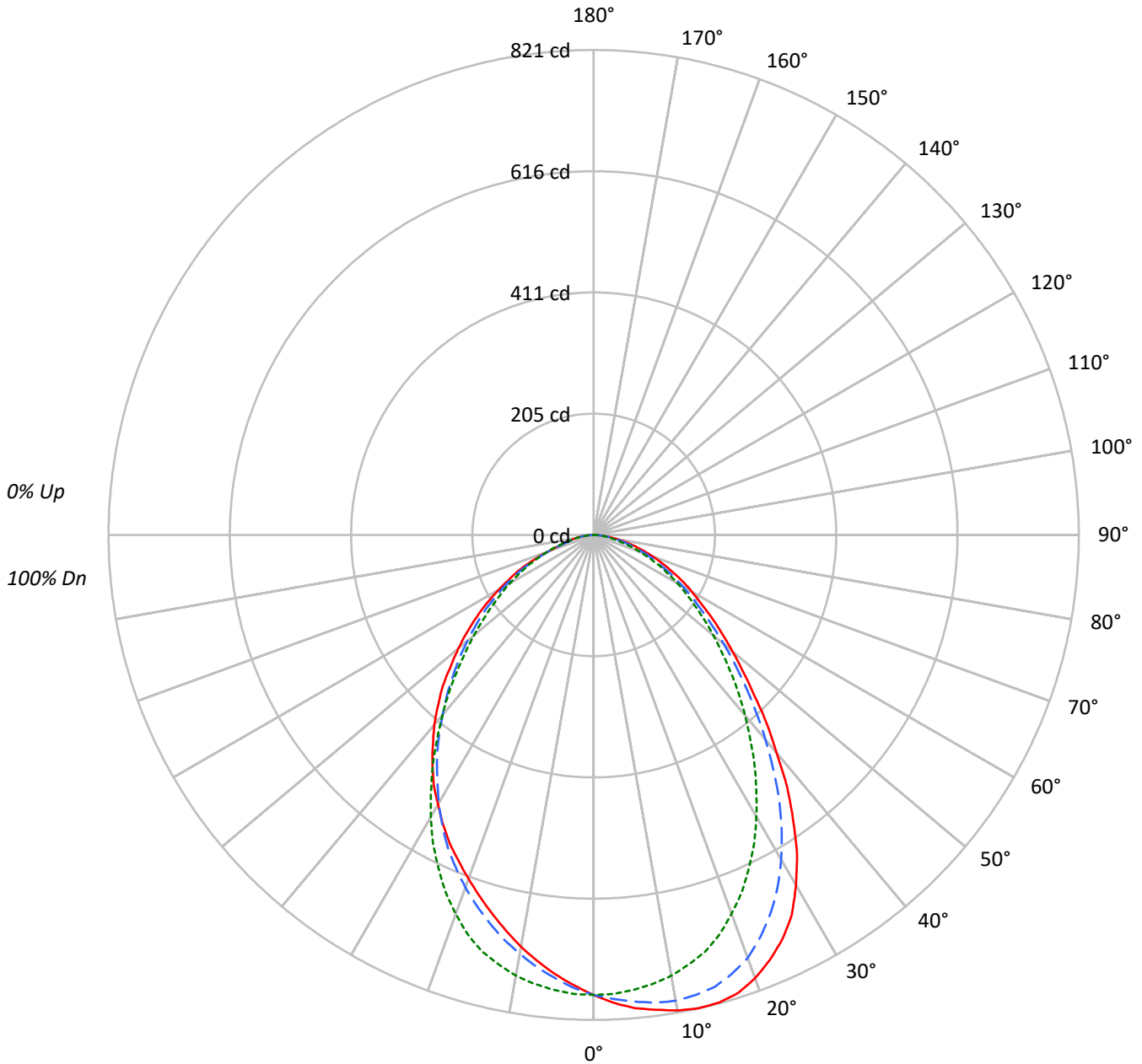
Lumens per Lamp: N/A  
Luminaire Lumens: 1566.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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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CATALOG NUMBER: HCC8S15D010BZ-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 | 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°  | 24015 | 24015 | 24015 |
| 5°  | 24893 | 23934 | 23110 |
| 10° | 25598 | 23725 | 22166 |
| 15° | 26165 | 23308 | 21188 |
| 20° | 26210 | 22396 | 20329 |
| 25° | 25705 | 21153 | 19611 |
| 30° | 24380 | 19612 | 18750 |
| 35° | 22154 | 17862 | 17904 |
| 40° | 19370 | 16033 | 16874 |
| 45° | 16790 | 14278 | 15730 |
| 50° | 14699 | 12684 | 14329 |
| 55° | 13086 | 11242 | 12962 |
| 60° | 11804 | 10102 | 11391 |
| 65° | 10653 | 8880  | 9923  |
| 70° | 9575  | 7474  | 7375  |
| 75° | 8447  | 5933  | 5540  |
| 80° | 7068  | 4901  | 5310  |
| 85° | 5484  | 4316  | 4706  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.5   | 4.7       |
| 10°-20°   | 206.9  | 13.2      |
| 20°-30°   | 295.7  | 18.9      |
| 30°-40°   | 314.2  | 20.1      |
| 40°-50°   | 270.5  | 17.3      |
| 50°-60°   | 202.3  | 12.9      |
| 60°-70°   | 129.0  | 8.2       |
| 70°-80°   | 58.7   | 3.7       |
| 80°-90°   | 15.4   | 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°    | 576.1  | 36.8      |
| 0°-40°    | 890.3  | 56.8      |
| 0°-60°    | 1363.1 | 87.0      |
| 0°-90°    | 1566.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1566.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 779 | 779 | 779 | 779  | 779  |      |
| 5°  | 804 | 793 | 773 | 753  | 747  | 77   |
| 15° | 820 | 792 | 730 | 680  | 664  | 231  |
| 25° | 756 | 708 | 622 | 584  | 576  | 346  |
| 35° | 588 | 548 | 474 | 462  | 476  | 366  |
| 45° | 385 | 364 | 327 | 336  | 361  | 299  |
| 55° | 243 | 223 | 209 | 227  | 241  | 219  |
| 65° | 146 | 129 | 122 | 127  | 136  | 146  |
| 75° | 71  | 61  | 50  | 45   | 46   | 75   |
| 85° | 16  | 13  | 12  | 13   | 13   | 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°    | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 |
| 2.5°  | 793.1 | 790.8 | 792.0 | 790.8 | 792.0 | 792.0 | 789.8 | 789.8 | 789.8 | 789.8 | 786.5 |
| 5°    | 804.2 | 803.0 | 803.0 | 801.9 | 800.8 | 801.9 | 800.8 | 799.8 | 797.6 | 796.4 | 793.1 |
| 7.5°  | 810.8 | 810.8 | 810.8 | 810.8 | 809.8 | 808.6 | 807.5 | 805.3 | 803.0 | 800.8 | 798.7 |
| 10°   | 817.5 | 818.6 | 817.5 | 816.4 | 815.2 | 813.0 | 811.9 | 809.8 | 806.4 | 803.0 | 800.8 |
| 12.5° | 820.7 | 820.7 | 819.6 | 819.6 | 817.5 | 816.4 | 813.0 | 809.8 | 806.4 | 803.0 | 797.6 |
| 15°   | 819.6 | 819.6 | 818.6 | 817.5 | 814.1 | 813.0 | 810.8 | 807.5 | 801.9 | 797.6 | 792.0 |
| 17.5° | 813.0 | 811.9 | 809.8 | 809.8 | 805.3 | 804.2 | 801.9 | 797.6 | 792.0 | 785.4 | 778.8 |
| 20°   | 798.7 | 798.7 | 797.6 | 796.4 | 792.0 | 788.7 | 786.5 | 781.0 | 776.5 | 768.8 | 762.2 |
| 22.5° | 778.8 | 781.0 | 778.8 | 776.5 | 771.0 | 769.9 | 766.6 | 759.9 | 753.2 | 744.4 | 736.7 |
| 25°   | 755.5 | 754.5 | 753.2 | 751.1 | 746.6 | 744.4 | 740.0 | 733.4 | 726.7 | 716.7 | 707.9 |
| 27.5° | 725.7 | 721.2 | 721.2 | 716.7 | 713.5 | 710.1 | 707.9 | 701.3 | 692.4 | 684.7 | 673.6 |
| 30°   | 684.7 | 685.8 | 680.3 | 679.1 | 673.6 | 671.4 | 667.0 | 660.3 | 652.6 | 643.8 | 634.9 |
| 32.5° | 640.5 | 637.2 | 637.2 | 632.7 | 628.3 | 625.0 | 623.8 | 616.1 | 609.5 | 600.7 | 591.8 |
| 35°   | 588.5 | 588.5 | 585.1 | 584.1 | 579.6 | 577.4 | 574.1 | 569.7 | 561.9 | 554.2 | 547.6 |
| 37.5° | 537.6 | 535.4 | 534.3 | 532.0 | 528.8 | 525.4 | 525.4 | 517.7 | 516.6 | 507.7 | 498.9 |
| 40°   | 481.2 | 483.4 | 481.2 | 477.9 | 476.7 | 474.5 | 473.4 | 469.0 | 465.7 | 457.9 | 452.5 |
| 42.5° | 433.6 | 431.4 | 431.4 | 430.3 | 425.8 | 425.8 | 423.7 | 421.4 | 416.0 | 413.7 | 407.0 |
| 45°   | 385.0 | 387.2 | 383.8 | 385.0 | 380.5 | 380.5 | 380.5 | 376.1 | 371.6 | 368.4 | 363.9 |
| 47.5° | 342.9 | 344.0 | 344.0 | 340.7 | 339.6 | 339.6 | 337.4 | 335.1 | 331.9 | 327.4 | 324.1 |
| 50°   | 306.4 | 307.5 | 305.3 | 304.1 | 302.0 | 300.9 | 300.9 | 296.4 | 294.3 | 289.8 | 287.6 |
| 52.5° | 273.2 | 273.2 | 272.1 | 272.1 | 268.8 | 268.8 | 266.5 | 263.3 | 261.0 | 258.8 | 253.3 |
| 55°   | 243.4 | 243.4 | 242.2 | 241.1 | 241.1 | 237.9 | 236.7 | 233.4 | 231.2 | 226.8 | 223.4 |
| 57.5° | 214.6 | 215.7 | 214.6 | 213.5 | 212.4 | 211.2 | 209.1 | 205.7 | 203.5 | 200.3 | 198.0 |
| 60°   | 191.4 | 191.4 | 190.3 | 189.2 | 186.9 | 185.8 | 184.7 | 182.6 | 179.2 | 177.0 | 173.6 |
| 62.5° | 169.2 | 168.1 | 167.0 | 165.9 | 163.8 | 163.8 | 161.5 | 159.3 | 155.9 | 153.8 | 151.6 |
| 65°   | 146.0 | 146.0 | 145.0 | 145.0 | 143.8 | 141.6 | 140.5 | 139.4 | 135.0 | 133.9 | 129.4 |
| 67.5° | 125.0 | 126.0 | 123.9 | 123.9 | 121.7 | 121.7 | 120.6 | 117.2 | 116.2 | 114.0 | 111.7 |
| 70°   | 106.2 | 106.2 | 106.2 | 105.1 | 102.9 | 101.8 | 100.6 | 98.4  | 97.4  | 95.1  | 92.9  |
| 72.5° | 87.4  | 87.4  | 86.3  | 86.3  | 85.2  | 84.1  | 82.9  | 80.7  | 80.7  | 78.6  | 76.3  |
| 75°   | 70.9  | 70.9  | 69.6  | 68.6  | 67.5  | 67.5  | 66.4  | 65.3  | 63.0  | 61.9  | 60.9  |
| 77.5° | 54.2  | 54.2  | 54.2  | 53.1  | 51.9  | 51.9  | 51.9  | 49.8  | 47.6  | 47.6  | 46.5  |
| 80°   | 39.8  | 39.8  | 38.7  | 38.7  | 37.6  | 37.6  | 37.6  | 36.5  | 35.4  | 34.3  | 33.1  |
| 82.5° | 26.5  | 26.5  | 26.5  | 26.5  | 25.4  | 25.4  | 25.4  | 24.3  | 23.3  | 23.3  | 23.3  |
| 85°   | 15.5  | 15.5  | 15.5  | 15.5  | 14.3  | 14.3  | 14.3  | 14.3  | 14.3  | 13.3  | 13.3  |
| 87.5° | 6.6   | 5.5   | 6.6   | 5.5   | 6.6   | 5.5   | 6.6   | 5.5   | 5.5   | 5.5   | 5.5   |
| 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°    | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 |
| 2.5°  | 787.6 | 786.5 | 785.4 | 784.2 | 784.2 | 783.1 | 781.0 | 779.9 | 778.8 | 777.6 | 777.6 |
| 5°    | 792.0 | 790.8 | 788.7 | 786.5 | 785.4 | 783.1 | 781.0 | 778.8 | 776.5 | 773.2 | 772.0 |
| 7.5°  | 795.3 | 792.0 | 789.8 | 785.4 | 784.2 | 782.0 | 778.8 | 775.4 | 771.0 | 766.6 | 763.2 |
| 10°   | 795.3 | 790.8 | 787.6 | 782.0 | 779.9 | 777.6 | 773.2 | 767.7 | 762.2 | 757.7 | 752.2 |
| 12.5° | 793.1 | 787.6 | 782.0 | 776.5 | 773.2 | 769.9 | 763.2 | 757.7 | 751.1 | 744.4 | 740.0 |
| 15°   | 785.4 | 778.8 | 772.0 | 765.4 | 762.2 | 757.7 | 751.1 | 743.4 | 736.7 | 730.1 | 722.3 |
| 17.5° | 771.0 | 764.3 | 756.6 | 748.9 | 744.4 | 741.1 | 731.2 | 725.7 | 715.6 | 709.0 | 702.4 |
| 20°   | 752.2 | 744.4 | 734.4 | 726.7 | 721.2 | 717.9 | 710.1 | 700.2 | 692.4 | 682.5 | 675.9 |
| 22.5° | 727.8 | 717.9 | 707.9 | 700.2 | 694.7 | 690.2 | 680.3 | 670.3 | 663.7 | 654.8 | 647.1 |
| 25°   | 699.1 | 689.1 | 679.1 | 668.2 | 662.6 | 658.2 | 649.3 | 640.5 | 631.7 | 621.7 | 615.0 |
| 27.5° | 664.8 | 653.7 | 644.9 | 634.9 | 629.4 | 622.7 | 612.9 | 603.9 | 595.1 | 588.5 | 579.6 |
| 30°   | 627.2 | 615.0 | 606.1 | 596.2 | 590.7 | 585.1 | 575.1 | 566.4 | 558.6 | 550.8 | 546.5 |
| 32.5° | 581.9 | 573.0 | 564.2 | 554.2 | 549.7 | 546.5 | 536.5 | 527.7 | 518.8 | 512.1 | 508.9 |
| 35°   | 538.8 | 528.8 | 521.0 | 512.1 | 506.6 | 503.3 | 494.4 | 486.7 | 482.2 | 474.5 | 470.1 |
| 37.5° | 493.3 | 485.6 | 476.7 | 467.9 | 464.5 | 461.3 | 454.6 | 446.9 | 440.3 | 434.8 | 432.5 |
| 40°   | 445.7 | 439.1 | 431.4 | 425.8 | 422.6 | 419.2 | 413.7 | 408.1 | 403.8 | 398.3 | 396.0 |
| 42.5° | 400.4 | 396.0 | 389.3 | 382.7 | 379.5 | 378.2 | 371.6 | 367.3 | 365.0 | 362.8 | 360.7 |
| 45°   | 359.5 | 352.8 | 348.5 | 344.0 | 340.7 | 338.5 | 335.1 | 331.9 | 329.7 | 327.4 | 325.2 |
| 47.5° | 319.7 | 314.1 | 309.7 | 306.4 | 303.1 | 302.0 | 299.8 | 296.4 | 294.3 | 294.3 | 294.3 |
| 50°   | 283.2 | 278.7 | 274.4 | 272.1 | 271.0 | 268.8 | 266.5 | 265.5 | 264.4 | 264.4 | 264.4 |
| 52.5° | 251.1 | 246.7 | 243.4 | 241.1 | 241.1 | 239.0 | 236.7 | 235.6 | 235.6 | 235.6 | 235.6 |
| 55°   | 221.2 | 217.9 | 215.7 | 213.5 | 211.2 | 210.2 | 210.2 | 210.2 | 209.1 | 209.1 | 210.2 |
| 57.5° | 194.7 | 192.4 | 189.2 | 186.9 | 185.8 | 185.8 | 184.7 | 183.6 | 184.7 | 185.8 | 186.9 |
| 60°   | 170.4 | 168.1 | 167.0 | 163.8 | 163.8 | 163.8 | 162.6 | 162.6 | 162.6 | 163.8 | 164.8 |
| 62.5° | 148.2 | 147.1 | 145.0 | 143.8 | 142.7 | 142.7 | 141.6 | 141.6 | 141.6 | 141.6 | 142.7 |
| 65°   | 128.3 | 126.0 | 123.9 | 123.9 | 123.9 | 122.8 | 122.8 | 120.6 | 121.7 | 121.7 | 120.6 |
| 67.5° | 109.5 | 107.2 | 106.2 | 105.1 | 104.0 | 104.0 | 102.9 | 101.8 | 100.6 | 100.6 | 100.6 |
| 70°   | 91.8  | 89.7  | 89.7  | 87.4  | 87.4  | 86.3  | 85.2  | 85.2  | 84.1  | 82.9  | 81.8  |
| 72.5° | 74.1  | 73.0  | 71.9  | 70.9  | 70.9  | 70.9  | 69.6  | 68.6  | 67.5  | 66.4  | 64.1  |
| 75°   | 58.7  | 58.7  | 56.4  | 55.3  | 55.3  | 54.2  | 53.1  | 51.9  | 50.9  | 49.8  | 48.7  |
| 77.5° | 45.3  | 44.2  | 42.1  | 41.0  | 41.0  | 41.0  | 39.8  | 38.7  | 37.6  | 36.5  | 35.4  |
| 80°   | 33.1  | 32.1  | 31.0  | 29.9  | 29.9  | 29.9  | 28.8  | 28.8  | 27.6  | 27.6  | 27.6  |
| 82.5° | 22.2  | 22.2  | 21.0  | 21.0  | 21.0  | 21.0  | 19.9  | 19.9  | 19.9  | 19.9  | 19.9  |
| 85°   | 13.3  | 13.3  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  |
| 87.5° | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 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°    | 778.8 | 778.8 | 778.8 | 778.8  | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 |
| 2.5°  | 775.4 | 775.4 | 773.2 | 772.0  | 771.0 | 772.0 | 769.9 | 768.8 | 767.7 | 767.7 | 766.6 |
| 5°    | 768.8 | 767.7 | 763.2 | 762.2  | 761.1 | 759.9 | 757.7 | 755.5 | 753.2 | 752.2 | 751.1 |
| 7.5°  | 759.9 | 756.6 | 752.2 | 751.1  | 750.0 | 746.6 | 743.4 | 741.1 | 737.8 | 736.7 | 734.4 |
| 10°   | 747.7 | 743.4 | 740.0 | 736.7  | 734.4 | 731.2 | 727.8 | 724.6 | 720.1 | 719.0 | 715.6 |
| 12.5° | 733.4 | 727.8 | 721.2 | 720.1  | 716.7 | 712.4 | 707.9 | 704.6 | 701.3 | 699.1 | 695.8 |
| 15°   | 715.6 | 710.1 | 703.5 | 700.2  | 696.9 | 693.6 | 688.1 | 683.6 | 680.3 | 677.0 | 673.6 |
| 17.5° | 694.7 | 688.1 | 682.5 | 679.1  | 677.0 | 671.4 | 667.0 | 661.4 | 658.2 | 654.8 | 651.5 |
| 20°   | 669.3 | 663.7 | 656.0 | 652.6  | 651.5 | 647.1 | 641.5 | 639.4 | 634.9 | 631.7 | 629.4 |
| 22.5° | 640.5 | 634.9 | 628.3 | 626.1  | 621.7 | 619.5 | 613.9 | 611.7 | 609.5 | 606.1 | 605.0 |
| 25°   | 608.4 | 602.9 | 597.3 | 596.2  | 592.9 | 590.7 | 587.3 | 584.1 | 584.1 | 580.7 | 580.7 |
| 27.5° | 575.1 | 569.7 | 565.3 | 563.0  | 561.9 | 559.7 | 556.3 | 555.3 | 554.2 | 553.1 | 553.1 |
| 30°   | 539.8 | 533.2 | 530.9 | 529.8  | 528.8 | 526.6 | 525.4 | 523.2 | 524.3 | 525.4 | 524.3 |
| 32.5° | 502.2 | 500.0 | 495.6 | 493.3  | 494.4 | 493.3 | 491.2 | 493.3 | 492.2 | 494.4 | 495.6 |
| 35°   | 465.7 | 463.4 | 461.3 | 461.3  | 459.1 | 459.1 | 459.1 | 460.2 | 462.4 | 463.4 | 465.7 |
| 37.5° | 430.3 | 426.9 | 425.8 | 424.8  | 425.8 | 425.8 | 425.8 | 428.1 | 430.3 | 432.5 | 435.8 |
| 40°   | 392.7 | 390.4 | 390.4 | 390.4  | 390.4 | 393.8 | 392.7 | 394.9 | 397.2 | 400.4 | 403.8 |
| 42.5° | 357.3 | 357.3 | 358.4 | 358.4  | 358.4 | 358.4 | 360.7 | 363.9 | 367.3 | 370.5 | 373.9 |
| 45°   | 324.1 | 324.1 | 324.1 | 326.3  | 326.3 | 327.4 | 331.9 | 334.0 | 336.3 | 339.6 | 342.9 |
| 47.5° | 293.2 | 293.2 | 294.3 | 295.3  | 296.4 | 298.7 | 300.9 | 304.1 | 307.5 | 309.7 | 313.1 |
| 50°   | 264.4 | 265.5 | 267.6 | 269.9  | 269.9 | 271.0 | 274.4 | 276.5 | 278.7 | 282.1 | 283.2 |
| 52.5° | 236.7 | 239.0 | 241.1 | 242.2  | 243.4 | 245.6 | 246.7 | 250.0 | 251.1 | 254.4 | 255.6 |
| 55°   | 211.2 | 212.4 | 215.7 | 216.8  | 216.8 | 219.1 | 221.2 | 223.4 | 226.8 | 226.8 | 229.0 |
| 57.5° | 188.1 | 189.2 | 191.4 | 192.4  | 191.4 | 194.7 | 195.8 | 198.0 | 199.1 | 201.4 | 202.4 |
| 60°   | 164.8 | 167.0 | 168.1 | 168.1  | 169.2 | 170.4 | 172.6 | 172.6 | 174.7 | 177.0 | 177.0 |
| 62.5° | 142.7 | 143.8 | 145.0 | 146.0  | 147.1 | 146.0 | 149.3 | 149.3 | 151.6 | 152.7 | 154.8 |
| 65°   | 121.7 | 122.8 | 122.8 | 123.9  | 123.9 | 125.0 | 125.0 | 126.0 | 127.2 | 129.4 | 130.5 |
| 67.5° | 100.6 | 100.6 | 100.6 | 101.8  | 100.6 | 101.8 | 101.8 | 102.9 | 102.9 | 105.1 | 106.2 |
| 70°   | 81.8  | 80.7  | 79.7  | 79.7   | 79.7  | 79.7  | 78.6  | 79.7  | 79.7  | 80.7  | 80.7  |
| 72.5° | 63.0  | 61.9  | 60.9  | 59.8   | 59.8  | 58.7  | 57.5  | 58.7  | 58.7  | 59.8  | 59.8  |
| 75°   | 47.6  | 45.3  | 45.3  | 45.3   | 44.2  | 44.2  | 44.2  | 45.3  | 45.3  | 45.3  | 46.5  |
| 77.5° | 35.4  | 35.4  | 34.3  | 34.3   | 34.3  | 35.4  | 35.4  | 36.5  | 36.5  | 36.5  | 36.5  |
| 80°   | 26.5  | 27.6  | 27.6  | 27.6   | 27.6  | 28.8  | 28.8  | 28.8  | 28.8  | 29.9  | 29.9  |
| 82.5° | 19.9  | 19.9  | 19.9  | 19.9   | 21.0  | 21.0  | 21.0  | 21.0  | 21.0  | 21.0  | 21.0  |
| 85°   | 12.2  | 13.3  | 13.3  | 12.2   | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  |
| 87.5° | 5.5   | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 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: P583881

CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 778.8 | 778.8 | 778.8  | 778.8 | 778.8 | 778.8 | 778.8 | 778.8 |
| 2.5°  | 765.4 | 765.4 | 765.4  | 765.4 | 764.3 | 764.3 | 764.3 | 763.2 |
| 5°    | 748.9 | 748.9 | 748.9  | 746.6 | 747.7 | 747.7 | 745.5 | 746.6 |
| 7.5°  | 732.3 | 731.2 | 730.1  | 730.1 | 728.9 | 727.8 | 726.7 | 727.8 |
| 10°   | 713.5 | 710.1 | 710.1  | 709.0 | 709.0 | 706.9 | 706.9 | 707.9 |
| 12.5° | 692.4 | 690.2 | 690.2  | 689.1 | 688.1 | 687.0 | 685.8 | 685.8 |
| 15°   | 671.4 | 669.3 | 668.2  | 667.0 | 665.9 | 663.7 | 664.8 | 663.7 |
| 17.5° | 650.5 | 647.1 | 647.1  | 646.0 | 644.9 | 642.6 | 642.6 | 641.5 |
| 20°   | 626.1 | 625.0 | 622.7  | 623.8 | 622.7 | 620.6 | 619.5 | 619.5 |
| 22.5° | 601.8 | 601.8 | 600.7  | 600.7 | 599.5 | 598.4 | 597.3 | 597.3 |
| 25°   | 578.5 | 577.4 | 578.5  | 578.5 | 575.1 | 575.1 | 575.1 | 576.4 |
| 27.5° | 552.0 | 553.1 | 552.0  | 552.0 | 552.0 | 552.0 | 553.1 | 552.0 |
| 30°   | 525.4 | 525.4 | 525.4  | 526.6 | 528.8 | 527.7 | 527.7 | 526.6 |
| 32.5° | 496.7 | 497.8 | 497.8  | 498.9 | 500.0 | 502.2 | 502.2 | 503.3 |
| 35°   | 467.9 | 470.1 | 471.3  | 470.1 | 473.4 | 473.4 | 475.6 | 475.6 |
| 37.5° | 438.0 | 439.1 | 441.4  | 442.5 | 444.6 | 445.7 | 446.9 | 446.9 |
| 40°   | 406.0 | 410.4 | 411.5  | 412.6 | 416.0 | 416.0 | 417.1 | 419.2 |
| 42.5° | 376.1 | 380.5 | 381.6  | 382.7 | 385.0 | 388.3 | 387.2 | 389.3 |
| 45°   | 347.3 | 350.7 | 351.7  | 352.8 | 356.2 | 357.3 | 357.3 | 360.7 |
| 47.5° | 316.3 | 318.6 | 319.7  | 321.9 | 324.1 | 326.3 | 328.5 | 327.4 |
| 50°   | 285.3 | 288.7 | 290.9  | 292.0 | 295.3 | 296.4 | 297.5 | 298.7 |
| 52.5° | 257.7 | 259.9 | 261.0  | 262.2 | 265.5 | 266.5 | 267.6 | 269.9 |
| 55°   | 231.2 | 232.3 | 234.5  | 233.4 | 236.7 | 237.9 | 239.0 | 241.1 |
| 57.5° | 204.6 | 205.7 | 206.9  | 206.9 | 209.1 | 211.2 | 212.4 | 213.5 |
| 60°   | 179.2 | 181.4 | 182.6  | 182.6 | 182.6 | 184.7 | 184.7 | 184.7 |
| 62.5° | 155.9 | 155.9 | 157.1  | 157.1 | 159.3 | 159.3 | 159.3 | 159.3 |
| 65°   | 131.6 | 132.8 | 133.9  | 133.9 | 136.0 | 135.0 | 137.1 | 136.0 |
| 67.5° | 106.2 | 106.2 | 108.4  | 108.4 | 107.2 | 108.4 | 108.4 | 108.4 |
| 70°   | 80.7  | 80.7  | 81.8   | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  |
| 72.5° | 59.8  | 59.8  | 59.8   | 60.9  | 59.8  | 59.8  | 60.9  | 59.8  |
| 75°   | 46.5  | 46.5  | 46.5   | 46.5  | 46.5  | 46.5  | 46.5  | 46.5  |
| 77.5° | 36.5  | 36.5  | 37.6   | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  |
| 80°   | 29.9  | 29.9  | 29.9   | 29.9  | 31.0  | 29.9  | 29.9  | 29.9  |
| 82.5° | 22.2  | 21.0  | 22.2   | 21.0  | 22.2  | 22.2  | 22.2  | 22.2  |
| 85°   | 13.3  | 13.3  | 13.3   | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  |
| 87.5° | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 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)