

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: P583940

Luminaire Tested: **HCC8S15D010BZ-HM80520935-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S15D010BZ-HM80520935-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

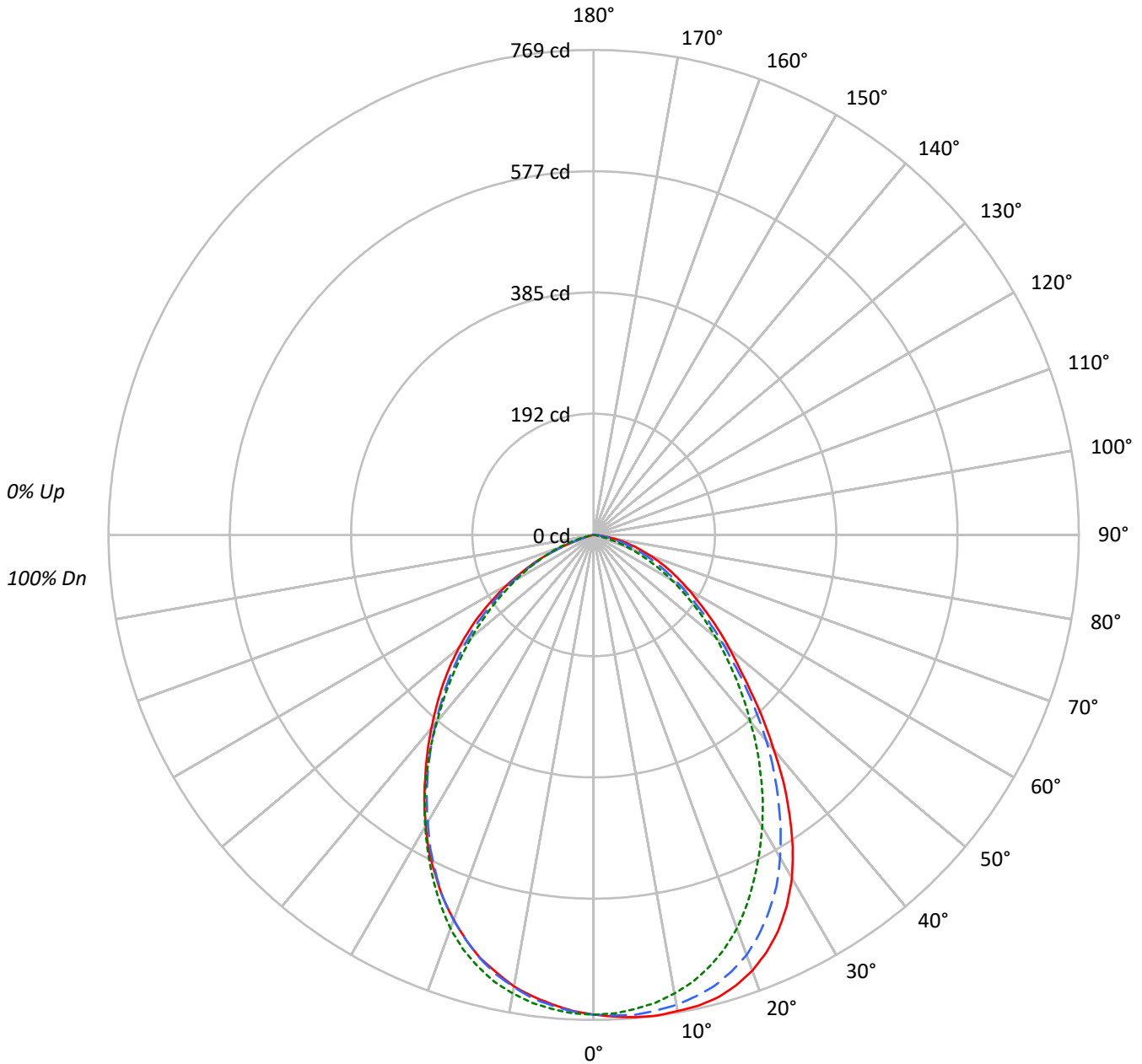
Lumens per Lamp: N/A  
Luminaire Lumens: 1445.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P583940  
CATALOG NUMBER: HCC8S15D010BZ-HM80520935-81RWWC

### 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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 23454 | 23454 | 23454 |
| 5°  | 23763 | 23355 | 23132 |
| 10° | 24004 | 23115 | 22767 |
| 15° | 24246 | 22628 | 22174 |
| 20° | 24126 | 21793 | 21294 |
| 25° | 23562 | 20486 | 20214 |
| 30° | 22379 | 19021 | 18946 |
| 35° | 20377 | 17354 | 17508 |
| 40° | 17865 | 15530 | 16106 |
| 45° | 15411 | 13815 | 14792 |
| 50° | 13490 | 12128 | 13394 |
| 55° | 11957 | 10430 | 11790 |
| 60° | 10768 | 8770  | 9775  |
| 65° | 9704  | 7041  | 7479  |
| 70° | 8520  | 5130  | 4120  |
| 75° | 7268  | 2657  | 1096  |
| 80° | 5594  | 728   | 178   |
| 85° | 3573  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.8   | 5.0       |
| 10°-20°   | 201.7  | 14.0      |
| 20°-30°   | 286.3  | 19.8      |
| 30°-40°   | 301.4  | 20.9      |
| 40°-50°   | 256.4  | 17.7      |
| 50°-60°   | 185.3  | 12.8      |
| 60°-70°   | 105.4  | 7.3       |
| 70°-80°   | 33.2   | 2.3       |
| 80°-90°   | 4.0    | 0.3       |
| 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°    | 559.8  | 38.7      |
| 0°-40°    | 861.2  | 59.6      |
| 0°-60°    | 1302.9 | 90.1      |
| 0°-90°    | 1445.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1445.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 761 | 761 | 761 | 761  | 761  |      |
| 5°  | 768 | 764 | 754 | 749  | 747  | 73   |
| 15° | 760 | 740 | 709 | 696  | 695  | 214  |
| 25° | 692 | 658 | 602 | 592  | 594  | 317  |
| 35° | 541 | 510 | 461 | 458  | 465  | 337  |
| 45° | 353 | 340 | 317 | 325  | 339  | 275  |
| 55° | 222 | 206 | 194 | 205  | 219  | 200  |
| 65° | 133 | 115 | 96  | 95   | 102  | 132  |
| 75° | 61  | 47  | 22  | 10   | 9    | 66   |
| 85° | 10  | 6   | 0   | 0    | 0    | 13   |
| 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°    | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 |
| 2.5°  | 764.7 | 765.7 | 763.6 | 763.6 | 765.7 | 763.6 | 764.7 | 764.7 | 763.6 | 763.6 | 762.6 |
| 5°    | 767.7 | 766.6 | 766.6 | 766.6 | 767.7 | 765.7 | 764.7 | 765.7 | 763.6 | 763.6 | 763.6 |
| 7.5°  | 768.7 | 768.7 | 767.7 | 766.6 | 766.6 | 766.6 | 765.7 | 764.7 | 763.6 | 761.6 | 760.6 |
| 10°   | 766.6 | 766.6 | 767.7 | 765.7 | 765.7 | 763.6 | 763.6 | 761.6 | 761.6 | 759.5 | 756.5 |
| 12.5° | 764.7 | 763.6 | 763.6 | 761.6 | 761.6 | 759.5 | 759.5 | 756.5 | 755.5 | 752.4 | 749.4 |
| 15°   | 759.5 | 758.5 | 756.5 | 755.5 | 754.5 | 753.5 | 751.4 | 750.5 | 747.3 | 743.4 | 740.2 |
| 17.5° | 749.4 | 748.4 | 747.3 | 745.3 | 743.4 | 742.3 | 741.3 | 738.2 | 734.2 | 731.2 | 726.0 |
| 20°   | 735.2 | 734.2 | 734.2 | 731.2 | 730.1 | 727.1 | 726.0 | 722.0 | 718.9 | 712.9 | 708.8 |
| 22.5° | 715.9 | 717.0 | 714.9 | 712.9 | 710.8 | 707.8 | 705.8 | 701.7 | 696.6 | 690.5 | 685.4 |
| 25°   | 692.5 | 693.6 | 691.5 | 689.5 | 686.5 | 684.4 | 682.4 | 676.2 | 671.2 | 664.1 | 658.1 |
| 27.5° | 663.1 | 663.1 | 663.1 | 661.1 | 656.0 | 654.9 | 653.0 | 646.8 | 639.7 | 633.7 | 627.6 |
| 30°   | 628.5 | 627.6 | 627.6 | 624.6 | 622.5 | 618.4 | 615.4 | 610.3 | 605.3 | 598.2 | 591.1 |
| 32.5° | 587.0 | 587.9 | 584.9 | 582.9 | 579.8 | 579.8 | 575.7 | 571.7 | 565.6 | 558.5 | 551.4 |
| 35°   | 541.3 | 542.2 | 540.2 | 539.2 | 534.2 | 533.1 | 532.1 | 527.1 | 523.0 | 517.9 | 509.7 |
| 37.5° | 494.5 | 493.6 | 492.5 | 492.5 | 489.5 | 487.4 | 485.4 | 482.4 | 476.2 | 472.2 | 468.1 |
| 40°   | 443.8 | 443.8 | 443.8 | 442.7 | 441.8 | 439.7 | 438.7 | 436.7 | 432.6 | 428.5 | 425.5 |
| 42.5° | 398.0 | 398.0 | 397.0 | 396.1 | 394.0 | 395.0 | 393.0 | 390.9 | 386.9 | 383.8 | 381.9 |
| 45°   | 353.4 | 353.4 | 353.4 | 354.4 | 352.3 | 349.3 | 349.3 | 347.3 | 345.2 | 343.2 | 340.2 |
| 47.5° | 313.8 | 316.8 | 314.7 | 313.8 | 314.7 | 310.8 | 310.8 | 308.7 | 306.7 | 304.6 | 300.5 |
| 50°   | 281.2 | 281.2 | 281.2 | 279.2 | 278.2 | 278.2 | 275.2 | 273.2 | 272.1 | 270.2 | 266.1 |
| 52.5° | 251.8 | 249.8 | 249.8 | 248.8 | 247.7 | 245.7 | 245.7 | 243.8 | 239.7 | 237.6 | 234.6 |
| 55°   | 222.4 | 222.4 | 221.4 | 220.4 | 219.3 | 218.3 | 217.3 | 214.2 | 212.2 | 209.2 | 206.2 |
| 57.5° | 195.9 | 198.0 | 197.0 | 195.0 | 192.9 | 192.9 | 190.9 | 188.8 | 185.8 | 182.8 | 179.8 |
| 60°   | 174.6 | 173.6 | 173.6 | 172.7 | 170.6 | 169.5 | 168.6 | 165.6 | 162.4 | 159.4 | 156.4 |
| 62.5° | 152.3 | 152.3 | 152.3 | 150.3 | 148.2 | 147.3 | 146.3 | 144.2 | 140.1 | 137.1 | 135.1 |
| 65°   | 133.0 | 132.1 | 131.0 | 130.0 | 128.9 | 126.9 | 125.9 | 123.9 | 120.9 | 117.8 | 114.7 |
| 67.5° | 113.8 | 112.7 | 112.7 | 111.7 | 108.7 | 107.6 | 107.6 | 104.6 | 101.6 | 98.4  | 95.4  |
| 70°   | 94.5  | 94.5  | 94.5  | 92.4  | 91.3  | 90.4  | 89.4  | 87.4  | 84.2  | 81.2  | 78.2  |
| 72.5° | 78.2  | 77.1  | 77.1  | 76.2  | 73.1  | 72.1  | 71.1  | 69.0  | 66.0  | 64.0  | 61.9  |
| 75°   | 61.0  | 61.0  | 59.9  | 58.9  | 57.8  | 56.9  | 55.8  | 53.9  | 50.7  | 47.7  | 46.8  |
| 77.5° | 46.8  | 45.7  | 45.7  | 44.7  | 42.7  | 41.7  | 41.7  | 39.6  | 36.5  | 34.6  | 32.5  |
| 80°   | 31.5  | 32.5  | 31.5  | 30.5  | 29.4  | 28.4  | 27.5  | 26.4  | 24.3  | 22.3  | 20.4  |
| 82.5° | 19.3  | 20.4  | 19.3  | 19.3  | 18.3  | 17.2  | 17.2  | 15.2  | 14.2  | 13.3  | 12.2  |
| 85°   | 10.1  | 10.1  | 10.1  | 10.1  | 9.2   | 9.2   | 9.2   | 8.1   | 7.1   | 6.1   | 6.1   |
| 87.5° | 3.0   | 4.1   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 2.0   | 2.0   | 2.0   |
| 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°    | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 |
| 2.5°  | 763.6 | 762.6 | 761.6 | 761.6 | 761.6 | 761.6 | 761.6 | 760.6 | 759.5 | 759.5 | 759.5 |
| 5°    | 761.6 | 761.6 | 761.6 | 760.6 | 759.5 | 759.5 | 757.6 | 756.5 | 755.5 | 754.5 | 753.5 |
| 7.5°  | 759.5 | 757.6 | 756.5 | 755.5 | 754.5 | 754.5 | 752.4 | 750.5 | 750.5 | 748.4 | 746.4 |
| 10°   | 753.5 | 752.4 | 750.5 | 748.4 | 747.3 | 746.4 | 744.3 | 741.3 | 740.2 | 738.2 | 736.3 |
| 12.5° | 746.4 | 744.3 | 742.3 | 738.2 | 737.2 | 736.3 | 732.2 | 729.1 | 727.1 | 726.0 | 721.0 |
| 15°   | 737.2 | 733.1 | 730.1 | 725.0 | 724.1 | 722.0 | 718.9 | 715.9 | 711.8 | 708.8 | 706.7 |
| 17.5° | 721.0 | 717.0 | 711.8 | 706.7 | 704.7 | 704.7 | 699.6 | 695.6 | 690.5 | 688.5 | 684.4 |
| 20°   | 701.7 | 696.6 | 692.5 | 686.5 | 683.4 | 680.3 | 677.3 | 671.2 | 667.2 | 664.1 | 659.0 |
| 22.5° | 679.4 | 672.3 | 667.2 | 661.1 | 656.0 | 653.0 | 647.8 | 642.7 | 637.7 | 634.7 | 630.6 |
| 25°   | 650.9 | 644.8 | 636.7 | 630.6 | 627.6 | 623.5 | 617.4 | 612.4 | 607.2 | 602.1 | 600.1 |
| 27.5° | 619.5 | 611.3 | 604.2 | 597.1 | 594.1 | 591.1 | 583.9 | 577.8 | 573.7 | 568.6 | 566.6 |
| 30°   | 584.9 | 576.8 | 568.6 | 562.6 | 559.5 | 554.4 | 550.3 | 543.2 | 538.2 | 534.2 | 529.1 |
| 32.5° | 545.3 | 539.2 | 532.1 | 523.0 | 520.9 | 516.8 | 510.8 | 507.8 | 501.6 | 498.6 | 494.5 |
| 35°   | 502.6 | 498.6 | 491.5 | 484.4 | 481.3 | 479.3 | 474.2 | 468.1 | 464.0 | 461.0 | 459.0 |
| 37.5° | 462.0 | 456.9 | 449.8 | 444.8 | 442.7 | 439.7 | 433.6 | 430.5 | 426.4 | 424.5 | 420.4 |
| 40°   | 418.4 | 413.3 | 408.3 | 405.1 | 402.1 | 400.1 | 396.1 | 393.0 | 389.0 | 385.8 | 384.9 |
| 42.5° | 375.7 | 372.7 | 368.6 | 364.5 | 363.5 | 360.5 | 358.5 | 355.4 | 352.3 | 351.4 | 348.2 |
| 45°   | 337.2 | 334.1 | 330.0 | 326.0 | 325.0 | 322.9 | 321.9 | 318.8 | 316.8 | 316.8 | 316.8 |
| 47.5° | 298.6 | 295.5 | 291.5 | 289.4 | 290.4 | 286.3 | 286.3 | 285.3 | 283.3 | 283.3 | 284.4 |
| 50°   | 264.0 | 259.9 | 259.0 | 256.9 | 254.9 | 252.8 | 253.9 | 250.8 | 250.8 | 252.8 | 251.8 |
| 52.5° | 231.5 | 227.5 | 226.4 | 224.4 | 223.4 | 223.4 | 222.4 | 222.4 | 221.4 | 222.4 | 222.4 |
| 55°   | 202.1 | 199.1 | 197.0 | 195.0 | 194.0 | 194.0 | 194.0 | 192.9 | 192.0 | 194.0 | 195.0 |
| 57.5° | 175.7 | 174.6 | 172.7 | 169.5 | 168.6 | 167.5 | 166.5 | 166.5 | 166.5 | 166.5 | 167.5 |
| 60°   | 152.3 | 150.3 | 148.2 | 145.2 | 145.2 | 144.2 | 143.2 | 142.2 | 142.2 | 142.2 | 142.2 |
| 62.5° | 132.1 | 128.9 | 125.9 | 123.9 | 122.9 | 121.8 | 120.9 | 118.8 | 118.8 | 118.8 | 118.8 |
| 65°   | 111.7 | 108.7 | 106.6 | 104.6 | 102.5 | 102.5 | 100.5 | 99.5  | 97.5  | 96.5  | 94.5  |
| 67.5° | 92.4  | 90.4  | 88.3  | 85.3  | 84.2  | 83.3  | 81.2  | 80.3  | 77.1  | 76.2  | 75.2  |
| 70°   | 75.2  | 72.1  | 70.0  | 68.1  | 67.0  | 64.9  | 62.9  | 61.0  | 58.9  | 56.9  | 54.8  |
| 72.5° | 58.9  | 55.8  | 53.9  | 51.8  | 49.8  | 49.8  | 46.8  | 44.7  | 41.7  | 39.6  | 36.5  |
| 75°   | 43.6  | 40.6  | 38.6  | 35.5  | 34.6  | 33.5  | 30.5  | 28.4  | 25.4  | 22.3  | 20.4  |
| 77.5° | 29.4  | 27.5  | 25.4  | 22.3  | 20.4  | 20.4  | 17.2  | 15.2  | 13.3  | 10.1  | 9.2   |
| 80°   | 18.3  | 16.3  | 14.2  | 12.2  | 12.2  | 10.1  | 9.2   | 7.1   | 5.1   | 4.1   | 3.0   |
| 82.5° | 10.1  | 9.2   | 8.1   | 6.1   | 6.1   | 5.1   | 4.1   | 3.0   | 2.0   | 1.0   | 1.0   |
| 85°   | 5.1   | 4.1   | 3.0   | 3.0   | 2.0   | 2.0   | 2.0   | 1.0   | 1.0   | 0.0   | 0.0   |
| 87.5° | 2.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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°    | 760.6 | 760.6 | 760.6 | 760.6  | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 |
| 2.5°  | 758.5 | 758.5 | 757.6 | 757.6  | 757.6 | 756.5 | 757.6 | 756.5 | 756.5 | 756.5 | 757.6 |
| 5°    | 754.5 | 752.4 | 752.4 | 751.4  | 751.4 | 750.5 | 751.4 | 750.5 | 749.4 | 748.4 | 749.4 |
| 7.5°  | 746.4 | 744.3 | 743.4 | 742.3  | 742.3 | 742.3 | 741.3 | 740.2 | 741.3 | 738.2 | 740.2 |
| 10°   | 735.2 | 734.2 | 732.2 | 731.2  | 730.1 | 731.2 | 730.1 | 728.1 | 728.1 | 728.1 | 727.1 |
| 12.5° | 721.0 | 718.9 | 717.9 | 717.0  | 714.9 | 714.9 | 715.9 | 713.8 | 713.8 | 711.8 | 711.8 |
| 15°   | 703.7 | 701.7 | 699.6 | 699.6  | 697.6 | 697.6 | 696.6 | 696.6 | 695.6 | 694.6 | 694.6 |
| 17.5° | 682.4 | 679.4 | 677.3 | 678.3  | 677.3 | 676.2 | 676.2 | 674.3 | 673.2 | 674.3 | 674.3 |
| 20°   | 657.0 | 654.9 | 653.0 | 654.0  | 651.9 | 650.9 | 651.9 | 648.9 | 649.9 | 649.9 | 649.9 |
| 22.5° | 628.5 | 627.6 | 624.6 | 624.6  | 622.5 | 621.4 | 622.5 | 622.5 | 623.5 | 622.5 | 622.5 |
| 25°   | 597.1 | 595.0 | 593.0 | 593.0  | 592.0 | 591.1 | 592.0 | 593.0 | 592.0 | 593.0 | 593.0 |
| 27.5° | 563.6 | 560.6 | 560.6 | 558.5  | 558.5 | 559.5 | 558.5 | 559.5 | 560.6 | 560.6 | 562.6 |
| 30°   | 527.1 | 526.0 | 525.0 | 523.9  | 523.9 | 525.0 | 525.0 | 525.0 | 526.0 | 528.0 | 528.0 |
| 32.5° | 492.5 | 490.4 | 488.4 | 488.4  | 490.4 | 489.5 | 490.4 | 490.4 | 492.5 | 492.5 | 494.5 |
| 35°   | 454.9 | 454.9 | 452.8 | 453.9  | 453.9 | 453.9 | 453.9 | 456.0 | 458.0 | 459.0 | 461.0 |
| 37.5° | 420.4 | 417.4 | 418.4 | 418.4  | 419.3 | 418.4 | 421.4 | 421.4 | 423.4 | 423.4 | 425.5 |
| 40°   | 382.8 | 382.8 | 383.8 | 382.8  | 383.8 | 383.8 | 385.8 | 387.9 | 389.0 | 390.9 | 392.0 |
| 42.5° | 347.3 | 349.3 | 347.3 | 348.2  | 349.3 | 350.3 | 351.4 | 352.3 | 356.4 | 358.5 | 361.5 |
| 45°   | 314.7 | 315.8 | 316.8 | 317.9  | 316.8 | 318.8 | 319.9 | 321.9 | 325.0 | 326.0 | 327.0 |
| 47.5° | 283.3 | 284.4 | 285.3 | 286.3  | 286.3 | 288.4 | 289.4 | 291.5 | 293.4 | 294.5 | 295.5 |
| 50°   | 252.8 | 254.9 | 255.9 | 255.9  | 256.9 | 259.0 | 261.0 | 261.0 | 263.1 | 266.1 | 267.0 |
| 52.5° | 225.5 | 225.5 | 227.5 | 228.5  | 229.6 | 229.6 | 232.6 | 233.5 | 234.6 | 236.7 | 238.6 |
| 55°   | 195.0 | 198.0 | 199.1 | 199.1  | 201.1 | 203.0 | 204.1 | 205.1 | 205.1 | 209.2 | 209.2 |
| 57.5° | 168.6 | 169.5 | 171.6 | 171.6  | 171.6 | 174.6 | 174.6 | 176.7 | 177.7 | 178.7 | 180.8 |
| 60°   | 142.2 | 144.2 | 144.2 | 145.2  | 144.2 | 146.3 | 147.3 | 149.3 | 150.3 | 151.3 | 152.3 |
| 62.5° | 117.8 | 117.8 | 118.8 | 118.8  | 118.8 | 118.8 | 120.9 | 120.9 | 122.9 | 123.9 | 125.0 |
| 65°   | 94.5  | 94.5  | 94.5  | 94.5   | 94.5  | 94.5  | 94.5  | 94.5  | 95.4  | 95.4  | 97.5  |
| 67.5° | 73.1  | 72.1  | 70.0  | 71.1   | 70.0  | 70.0  | 69.0  | 69.0  | 70.0  | 70.0  | 72.1  |
| 70°   | 52.8  | 51.8  | 49.8  | 49.8   | 48.8  | 47.7  | 46.8  | 45.7  | 44.7  | 44.7  | 44.7  |
| 72.5° | 34.6  | 32.5  | 29.4  | 28.4   | 28.4  | 26.4  | 24.3  | 23.4  | 23.4  | 23.4  | 23.4  |
| 75°   | 17.2  | 15.2  | 13.3  | 12.2   | 12.2  | 10.1  | 11.2  | 10.1  | 10.1  | 10.1  | 10.1  |
| 77.5° | 7.1   | 5.1   | 4.1   | 4.1    | 4.1   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 80°   | 2.0   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 82.5° | 1.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P583940

CATALOG NUMBER: HCC8S15D010BZ-HM80520935-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 760.6 | 760.6 | 760.6  | 760.6 | 760.6 | 760.6 | 760.6 | 760.6 |
| 2.5°  | 756.5 | 756.5 | 754.5  | 755.5 | 755.5 | 755.5 | 755.5 | 755.5 |
| 5°    | 747.3 | 748.4 | 747.3  | 748.4 | 748.4 | 747.3 | 747.3 | 747.3 |
| 7.5°  | 738.2 | 739.3 | 738.2  | 739.3 | 739.3 | 739.3 | 738.2 | 738.2 |
| 10°   | 727.1 | 727.1 | 727.1  | 727.1 | 727.1 | 726.0 | 727.1 | 727.1 |
| 12.5° | 711.8 | 711.8 | 711.8  | 712.9 | 712.9 | 711.8 | 711.8 | 710.8 |
| 15°   | 695.6 | 693.6 | 694.6  | 695.6 | 694.6 | 694.6 | 694.6 | 694.6 |
| 17.5° | 673.2 | 674.3 | 673.2  | 673.2 | 673.2 | 673.2 | 674.3 | 673.2 |
| 20°   | 649.9 | 649.9 | 650.9  | 649.9 | 649.9 | 649.9 | 649.9 | 648.9 |
| 22.5° | 623.5 | 622.5 | 622.5  | 623.5 | 623.5 | 622.5 | 623.5 | 623.5 |
| 25°   | 594.1 | 595.0 | 594.1  | 594.1 | 595.0 | 595.0 | 595.0 | 594.1 |
| 27.5° | 562.6 | 563.6 | 564.5  | 563.6 | 563.6 | 563.6 | 564.5 | 565.6 |
| 30°   | 530.1 | 532.1 | 530.1  | 530.1 | 532.1 | 531.0 | 532.1 | 532.1 |
| 32.5° | 495.5 | 498.6 | 496.6  | 498.6 | 498.6 | 499.6 | 498.6 | 499.6 |
| 35°   | 461.0 | 464.0 | 464.0  | 464.0 | 465.1 | 466.1 | 466.1 | 465.1 |
| 37.5° | 428.5 | 429.6 | 429.6  | 431.6 | 432.6 | 433.6 | 433.6 | 432.6 |
| 40°   | 395.0 | 397.0 | 398.0  | 398.0 | 398.0 | 400.1 | 402.1 | 400.1 |
| 42.5° | 362.5 | 363.5 | 364.5  | 364.5 | 366.6 | 367.6 | 368.6 | 368.6 |
| 45°   | 331.0 | 333.1 | 334.1  | 335.1 | 336.1 | 338.1 | 337.2 | 339.2 |
| 47.5° | 298.6 | 301.6 | 302.6  | 303.7 | 305.7 | 306.7 | 307.6 | 308.7 |
| 50°   | 269.1 | 271.1 | 271.1  | 273.2 | 276.2 | 276.2 | 278.2 | 279.2 |
| 52.5° | 239.7 | 240.6 | 241.7  | 242.7 | 244.7 | 246.8 | 246.8 | 248.8 |
| 55°   | 211.2 | 212.2 | 212.2  | 213.3 | 214.2 | 218.3 | 219.3 | 219.3 |
| 57.5° | 181.7 | 181.7 | 183.8  | 184.8 | 185.8 | 187.9 | 187.9 | 187.9 |
| 60°   | 153.3 | 154.4 | 154.4  | 155.3 | 156.4 | 158.5 | 159.4 | 158.5 |
| 62.5° | 125.0 | 125.9 | 125.9  | 126.9 | 128.9 | 130.0 | 128.9 | 128.9 |
| 65°   | 98.4  | 99.5  | 99.5   | 100.5 | 102.5 | 102.5 | 101.6 | 102.5 |
| 67.5° | 72.1  | 72.1  | 72.1   | 72.1  | 72.1  | 72.1  | 72.1  | 72.1  |
| 70°   | 45.7  | 44.7  | 43.6   | 44.7  | 44.7  | 44.7  | 43.6  | 45.7  |
| 72.5° | 22.3  | 23.4  | 23.4   | 23.4  | 23.4  | 23.4  | 23.4  | 22.3  |
| 75°   | 10.1  | 10.1  | 9.2    | 9.2   | 9.2   | 10.1  | 10.1  | 9.2   |
| 77.5° | 3.0   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 80°   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 82.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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



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Peachtree City, GA 30269

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Scaled Data Report



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

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(END OF REPORT)