

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: P583872

Luminaire Tested: **HCC8W15D010SL-HM80520835-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583872  
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: HCC8W15D010SL-HM80520835-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

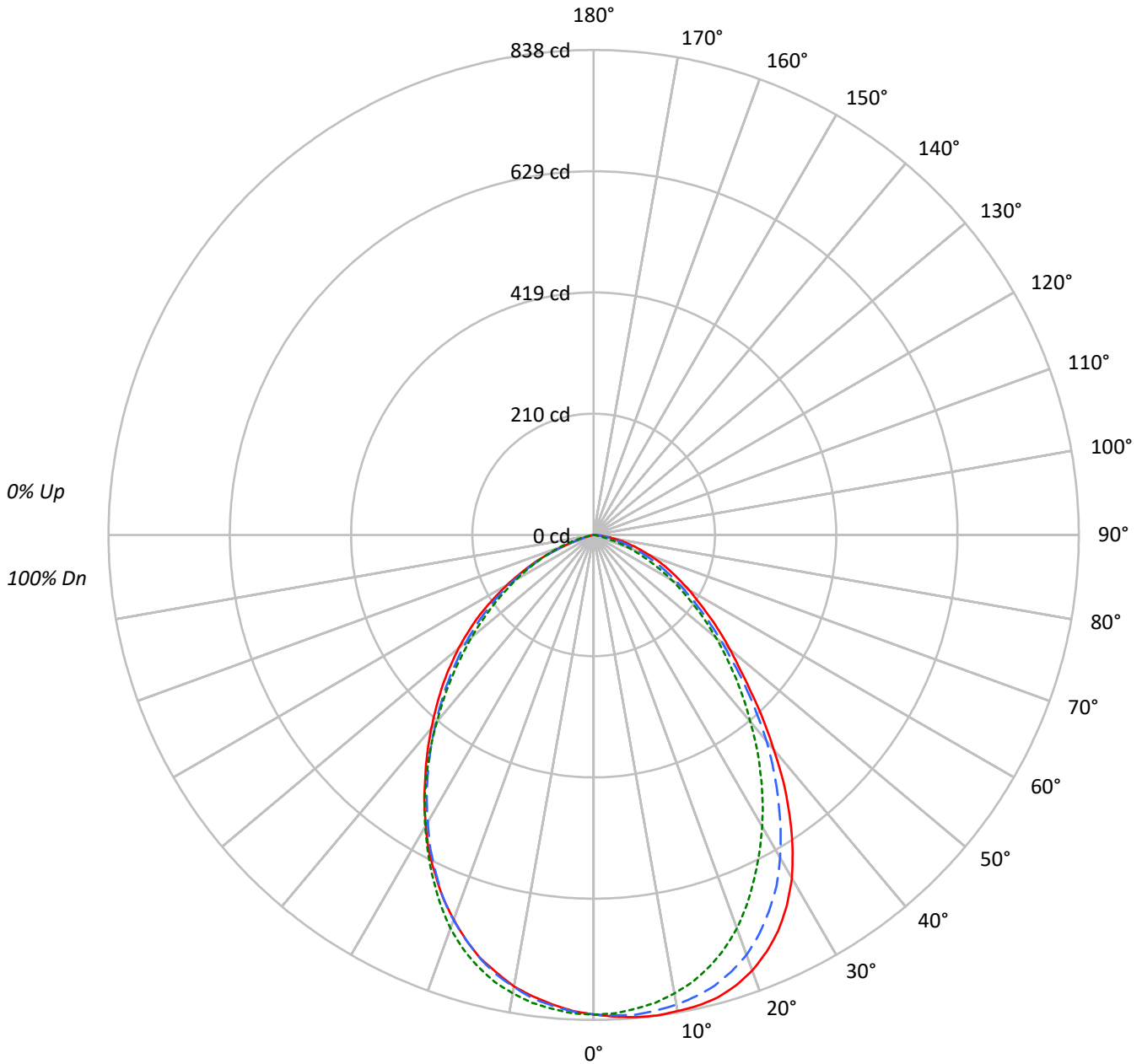
Lumens per Lamp: N/A  
Luminaire Lumens: 1575.1 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): 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





TEST NUMBER: P583872

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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  | 84  | 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°  | 25557 | 25557 | 25557 |
| 5°  | 25893 | 25447 | 25206 |
| 10° | 26158 | 25184 | 24805 |
| 15° | 26420 | 24655 | 24163 |
| 20° | 26288 | 23745 | 23200 |
| 25° | 25675 | 22323 | 22024 |
| 30° | 24387 | 20723 | 20645 |
| 35° | 22199 | 18912 | 19074 |
| 40° | 19467 | 16923 | 17551 |
| 45° | 16790 | 15054 | 16118 |
| 50° | 14699 | 13217 | 14598 |
| 55° | 13026 | 11365 | 12849 |
| 60° | 11736 | 9559  | 10645 |
| 65° | 10580 | 7669  | 8150  |
| 70° | 9277  | 5581  | 4490  |
| 75° | 7911  | 2895  | 1191  |
| 80° | 6091  | 799   | 195   |
| 85° | 3927  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.2   | 5.0       |
| 10°-20°   | 219.8  | 14.0      |
| 20°-30°   | 312.0  | 19.8      |
| 30°-40°   | 328.4  | 20.9      |
| 40°-50°   | 279.4  | 17.7      |
| 50°-60°   | 201.9  | 12.8      |
| 60°-70°   | 114.8  | 7.3       |
| 70°-80°   | 36.2   | 2.3       |
| 80°-90°   | 4.4    | 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°    | 610.0  | 38.7      |
| 0°-40°    | 938.4  | 59.6      |
| 0°-60°    | 1419.7 | 90.1      |
| 0°-90°    | 1575.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1575.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 829 | 829 | 829 | 829  | 829  |      |
| 5°  | 836 | 832 | 822 | 817  | 814  | 80   |
| 15° | 828 | 807 | 772 | 758  | 757  | 233  |
| 25° | 755 | 717 | 656 | 645  | 647  | 346  |
| 35° | 590 | 555 | 502 | 499  | 507  | 367  |
| 45° | 385 | 371 | 345 | 354  | 370  | 299  |
| 55° | 242 | 225 | 211 | 224  | 239  | 218  |
| 65° | 145 | 125 | 105 | 104  | 112  | 144  |
| 75° | 66  | 51  | 24  | 11   | 10   | 71   |
| 85° | 11  | 7   | 0   | 0    | 0    | 14   |
| 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°    | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 |
| 2.5°  | 833.1 | 834.2 | 832.1 | 832.1 | 834.2 | 832.1 | 833.1 | 833.1 | 832.1 | 832.1 | 831.0 |
| 5°    | 836.5 | 835.4 | 835.4 | 835.4 | 836.5 | 834.2 | 833.1 | 834.2 | 832.1 | 832.1 | 832.1 |
| 7.5°  | 837.6 | 837.6 | 836.5 | 835.4 | 835.4 | 835.4 | 834.2 | 833.1 | 832.1 | 829.9 | 828.8 |
| 10°   | 835.4 | 835.4 | 836.5 | 834.2 | 834.2 | 832.1 | 832.1 | 829.9 | 829.9 | 827.6 | 824.3 |
| 12.5° | 833.1 | 832.1 | 832.1 | 829.9 | 829.9 | 827.6 | 827.6 | 824.3 | 823.3 | 819.9 | 816.6 |
| 15°   | 827.6 | 826.5 | 824.3 | 823.3 | 822.1 | 821.0 | 818.8 | 817.7 | 814.3 | 809.9 | 806.6 |
| 17.5° | 816.6 | 815.4 | 814.3 | 812.2 | 809.9 | 808.8 | 807.7 | 804.3 | 800.0 | 796.6 | 791.1 |
| 20°   | 801.1 | 800.0 | 800.0 | 796.6 | 795.5 | 792.2 | 791.1 | 786.7 | 783.4 | 776.7 | 772.3 |
| 22.5° | 780.0 | 781.2 | 778.9 | 776.7 | 774.6 | 771.2 | 769.0 | 764.6 | 759.0 | 752.4 | 746.9 |
| 25°   | 754.6 | 755.7 | 753.5 | 751.3 | 747.9 | 745.8 | 743.5 | 736.9 | 731.3 | 723.6 | 717.0 |
| 27.5° | 722.5 | 722.5 | 722.5 | 720.3 | 714.8 | 713.7 | 711.4 | 704.8 | 697.1 | 690.5 | 683.8 |
| 30°   | 684.9 | 683.8 | 683.8 | 680.5 | 678.3 | 673.8 | 670.5 | 665.0 | 659.5 | 651.7 | 644.0 |
| 32.5° | 639.5 | 640.7 | 637.3 | 635.2 | 631.8 | 631.8 | 627.3 | 623.0 | 616.4 | 608.5 | 600.8 |
| 35°   | 589.7 | 590.8 | 588.6 | 587.6 | 582.0 | 580.9 | 579.8 | 574.3 | 569.8 | 564.3 | 555.4 |
| 37.5° | 538.9 | 537.8 | 536.6 | 536.6 | 533.3 | 531.0 | 528.9 | 525.6 | 518.9 | 514.5 | 510.1 |
| 40°   | 483.6 | 483.6 | 483.6 | 482.4 | 481.3 | 479.1 | 478.0 | 475.7 | 471.4 | 466.9 | 463.6 |
| 42.5° | 433.7 | 433.7 | 432.6 | 431.5 | 429.3 | 430.4 | 428.3 | 426.0 | 421.5 | 418.3 | 416.1 |
| 45°   | 385.0 | 385.0 | 385.0 | 386.2 | 383.9 | 380.7 | 380.7 | 378.4 | 376.2 | 374.0 | 370.7 |
| 47.5° | 341.9 | 345.2 | 342.9 | 341.9 | 342.9 | 338.6 | 338.6 | 336.3 | 334.1 | 332.0 | 327.5 |
| 50°   | 306.4 | 306.4 | 306.4 | 304.3 | 303.2 | 303.2 | 299.8 | 297.6 | 296.6 | 294.3 | 289.9 |
| 52.5° | 274.4 | 272.2 | 272.2 | 271.1 | 269.9 | 267.8 | 267.8 | 265.6 | 261.1 | 259.0 | 255.6 |
| 55°   | 242.3 | 242.3 | 241.2 | 240.2 | 239.0 | 237.9 | 236.8 | 233.4 | 231.2 | 228.0 | 224.6 |
| 57.5° | 213.5 | 215.8 | 214.6 | 212.4 | 210.3 | 210.3 | 208.0 | 205.8 | 202.4 | 199.2 | 195.8 |
| 60°   | 190.3 | 189.2 | 189.2 | 188.1 | 185.9 | 184.7 | 183.6 | 180.4 | 177.0 | 173.8 | 170.4 |
| 62.5° | 165.9 | 165.9 | 165.9 | 163.8 | 161.6 | 160.4 | 159.3 | 157.1 | 152.7 | 149.4 | 147.1 |
| 65°   | 145.0 | 143.9 | 142.8 | 141.6 | 140.5 | 138.3 | 137.2 | 135.0 | 131.7 | 128.3 | 125.1 |
| 67.5° | 123.9 | 122.8 | 122.8 | 121.7 | 118.5 | 117.2 | 117.2 | 114.0 | 110.6 | 107.4 | 104.0 |
| 70°   | 102.9 | 102.9 | 102.9 | 100.7 | 99.5  | 98.4  | 97.4  | 95.2  | 91.8  | 88.6  | 85.2  |
| 72.5° | 85.2  | 84.1  | 84.1  | 83.0  | 79.7  | 78.6  | 77.5  | 75.2  | 71.9  | 69.6  | 67.5  |
| 75°   | 66.4  | 66.4  | 65.3  | 64.2  | 63.0  | 61.9  | 60.9  | 58.7  | 55.3  | 52.1  | 50.9  |
| 77.5° | 50.9  | 49.8  | 49.8  | 48.7  | 46.5  | 45.3  | 45.3  | 43.1  | 39.9  | 37.6  | 35.4  |
| 80°   | 34.3  | 35.4  | 34.3  | 33.1  | 32.1  | 31.0  | 29.9  | 28.8  | 26.5  | 24.3  | 22.2  |
| 82.5° | 21.0  | 22.2  | 21.0  | 21.0  | 19.9  | 18.8  | 18.8  | 16.6  | 15.5  | 14.3  | 13.3  |
| 85°   | 11.1  | 11.1  | 11.1  | 11.1  | 10.0  | 10.0  | 10.0  | 8.8   | 7.7   | 6.6   | 6.6   |
| 87.5° | 3.4   | 4.5   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 2.2   | 2.2   | 2.2   |
| 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°    | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 |
| 2.5°  | 832.1 | 831.0 | 829.9 | 829.9 | 829.9 | 829.9 | 829.9 | 828.8 | 827.6 | 827.6 | 827.6 |
| 5°    | 829.9 | 829.9 | 829.9 | 828.8 | 827.6 | 827.6 | 825.4 | 824.3 | 823.3 | 822.1 | 821.0 |
| 7.5°  | 827.6 | 825.4 | 824.3 | 823.3 | 822.1 | 822.1 | 819.9 | 817.7 | 817.7 | 815.4 | 813.3 |
| 10°   | 821.0 | 819.9 | 817.7 | 815.4 | 814.3 | 813.3 | 811.1 | 807.7 | 806.6 | 804.3 | 802.2 |
| 12.5° | 813.3 | 811.1 | 808.8 | 804.3 | 803.3 | 802.2 | 797.7 | 794.5 | 792.2 | 791.1 | 785.5 |
| 15°   | 803.3 | 798.9 | 795.5 | 790.0 | 788.9 | 786.7 | 783.4 | 780.0 | 775.7 | 772.3 | 770.1 |
| 17.5° | 785.5 | 781.2 | 775.7 | 770.1 | 767.8 | 767.8 | 762.4 | 757.9 | 752.4 | 750.2 | 745.8 |
| 20°   | 764.6 | 759.0 | 754.6 | 747.9 | 744.7 | 741.3 | 738.1 | 731.3 | 727.0 | 723.6 | 718.1 |
| 22.5° | 740.2 | 732.5 | 727.0 | 720.3 | 714.8 | 711.4 | 705.9 | 700.3 | 694.8 | 691.5 | 687.1 |
| 25°   | 709.3 | 702.6 | 693.7 | 687.1 | 683.8 | 679.4 | 672.8 | 667.2 | 661.7 | 656.1 | 654.0 |
| 27.5° | 674.9 | 666.1 | 658.3 | 650.6 | 647.3 | 644.0 | 636.2 | 629.6 | 625.2 | 619.6 | 617.4 |
| 30°   | 637.3 | 628.5 | 619.6 | 613.0 | 609.6 | 604.2 | 599.7 | 592.0 | 586.5 | 582.0 | 576.5 |
| 32.5° | 594.2 | 587.6 | 579.8 | 569.8 | 567.6 | 563.2 | 556.6 | 553.2 | 546.6 | 543.2 | 538.9 |
| 35°   | 547.7 | 543.2 | 535.5 | 527.8 | 524.4 | 522.2 | 516.7 | 510.1 | 505.6 | 502.4 | 500.1 |
| 37.5° | 503.4 | 497.9 | 490.2 | 484.7 | 482.4 | 479.1 | 472.5 | 469.1 | 464.8 | 462.5 | 458.0 |
| 40°   | 455.9 | 450.3 | 444.8 | 441.5 | 438.1 | 436.0 | 431.5 | 428.3 | 423.8 | 420.4 | 419.3 |
| 42.5° | 409.3 | 406.1 | 401.6 | 397.2 | 396.1 | 392.8 | 390.5 | 387.3 | 383.9 | 382.8 | 379.6 |
| 45°   | 367.4 | 364.0 | 359.6 | 355.2 | 354.0 | 351.9 | 350.8 | 347.4 | 345.2 | 345.2 | 345.2 |
| 47.5° | 325.4 | 322.0 | 317.5 | 315.3 | 316.4 | 312.0 | 312.0 | 310.9 | 308.7 | 308.7 | 309.8 |
| 50°   | 287.6 | 283.3 | 282.1 | 279.9 | 277.8 | 275.5 | 276.7 | 273.3 | 273.3 | 275.5 | 274.4 |
| 52.5° | 252.3 | 247.9 | 246.8 | 244.5 | 243.4 | 243.4 | 242.3 | 242.3 | 241.2 | 242.3 | 242.3 |
| 55°   | 220.2 | 216.9 | 214.6 | 212.4 | 211.4 | 211.4 | 211.4 | 210.3 | 209.1 | 211.4 | 212.4 |
| 57.5° | 191.5 | 190.3 | 188.1 | 184.7 | 183.6 | 182.6 | 181.5 | 181.5 | 181.5 | 181.5 | 182.6 |
| 60°   | 165.9 | 163.8 | 161.6 | 158.2 | 158.2 | 157.1 | 156.0 | 155.0 | 155.0 | 155.0 | 155.0 |
| 62.5° | 143.9 | 140.5 | 137.2 | 135.0 | 133.9 | 132.8 | 131.7 | 129.4 | 129.4 | 129.4 | 129.4 |
| 65°   | 121.7 | 118.5 | 116.2 | 114.0 | 111.7 | 111.7 | 109.5 | 108.4 | 106.2 | 105.1 | 102.9 |
| 67.5° | 100.7 | 98.4  | 96.3  | 92.9  | 91.8  | 90.7  | 88.6  | 87.4  | 84.1  | 83.0  | 81.8  |
| 70°   | 81.8  | 78.6  | 76.4  | 74.1  | 73.0  | 70.9  | 68.6  | 66.4  | 64.2  | 61.9  | 59.8  |
| 72.5° | 64.2  | 60.9  | 58.7  | 56.4  | 54.2  | 54.2  | 50.9  | 48.7  | 45.3  | 43.1  | 39.9  |
| 75°   | 47.6  | 44.2  | 42.1  | 38.7  | 37.6  | 36.5  | 33.1  | 31.0  | 27.7  | 24.3  | 22.2  |
| 77.5° | 32.1  | 29.9  | 27.7  | 24.3  | 22.2  | 22.2  | 18.8  | 16.6  | 14.3  | 11.1  | 10.0  |
| 80°   | 19.9  | 17.7  | 15.5  | 13.3  | 13.3  | 11.1  | 10.0  | 7.7   | 5.5   | 4.5   | 3.4   |
| 82.5° | 11.1  | 10.0  | 8.8   | 6.6   | 6.6   | 5.5   | 4.5   | 3.4   | 2.2   | 1.1   | 1.1   |
| 85°   | 5.5   | 4.5   | 3.4   | 3.4   | 2.2   | 2.2   | 2.2   | 1.1   | 1.1   | 0.0   | 0.0   |
| 87.5° | 2.2   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 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°    | 828.8 | 828.8 | 828.8 | 828.8  | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 |
| 2.5°  | 826.5 | 826.5 | 825.4 | 825.4  | 825.4 | 824.3 | 825.4 | 824.3 | 824.3 | 824.3 | 825.4 |
| 5°    | 822.1 | 819.9 | 819.9 | 818.8  | 818.8 | 817.7 | 818.8 | 817.7 | 816.6 | 815.4 | 816.6 |
| 7.5°  | 813.3 | 811.1 | 809.9 | 808.8  | 808.8 | 808.8 | 807.7 | 806.6 | 807.7 | 804.3 | 806.6 |
| 10°   | 801.1 | 800.0 | 797.7 | 796.6  | 795.5 | 796.6 | 795.5 | 793.4 | 793.4 | 793.4 | 792.2 |
| 12.5° | 785.5 | 783.4 | 782.3 | 781.2  | 778.9 | 778.9 | 780.0 | 777.8 | 777.8 | 775.7 | 775.7 |
| 15°   | 766.7 | 764.6 | 762.4 | 762.4  | 760.1 | 760.1 | 759.0 | 759.0 | 757.9 | 756.9 | 756.9 |
| 17.5° | 743.5 | 740.2 | 738.1 | 739.1  | 738.1 | 736.9 | 736.9 | 734.7 | 733.6 | 734.7 | 734.7 |
| 20°   | 715.9 | 713.7 | 711.4 | 712.5  | 710.3 | 709.3 | 710.3 | 707.0 | 708.2 | 708.2 | 708.2 |
| 22.5° | 684.9 | 683.8 | 680.5 | 680.5  | 678.3 | 677.2 | 678.3 | 678.3 | 679.4 | 678.3 | 678.3 |
| 25°   | 650.6 | 648.4 | 646.1 | 646.1  | 645.0 | 644.0 | 645.0 | 646.1 | 645.0 | 646.1 | 646.1 |
| 27.5° | 614.1 | 610.8 | 610.8 | 608.5  | 608.5 | 609.6 | 608.5 | 609.6 | 610.8 | 610.8 | 613.0 |
| 30°   | 574.3 | 573.1 | 572.0 | 570.9  | 570.9 | 572.0 | 572.0 | 572.0 | 573.1 | 575.4 | 575.4 |
| 32.5° | 536.6 | 534.4 | 532.2 | 532.2  | 534.4 | 533.3 | 534.4 | 534.4 | 536.6 | 536.6 | 538.9 |
| 35°   | 495.7 | 495.7 | 493.4 | 494.5  | 494.5 | 494.5 | 494.5 | 496.8 | 499.0 | 500.1 | 502.4 |
| 37.5° | 458.0 | 454.8 | 455.9 | 455.9  | 456.9 | 455.9 | 459.2 | 459.2 | 461.4 | 461.4 | 463.6 |
| 40°   | 417.2 | 417.2 | 418.3 | 417.2  | 418.3 | 418.3 | 420.4 | 422.7 | 423.8 | 426.0 | 427.1 |
| 42.5° | 378.4 | 380.7 | 378.4 | 379.6  | 380.7 | 381.7 | 382.8 | 383.9 | 388.4 | 390.5 | 393.9 |
| 45°   | 342.9 | 344.1 | 345.2 | 346.3  | 345.2 | 347.4 | 348.5 | 350.8 | 354.0 | 355.2 | 356.3 |
| 47.5° | 308.7 | 309.8 | 310.9 | 312.0  | 312.0 | 314.3 | 315.3 | 317.5 | 319.8 | 320.9 | 322.0 |
| 50°   | 275.5 | 277.8 | 278.8 | 278.8  | 279.9 | 282.1 | 284.4 | 284.4 | 286.5 | 289.9 | 291.0 |
| 52.5° | 245.6 | 245.6 | 247.9 | 249.0  | 250.0 | 250.0 | 253.4 | 254.5 | 255.6 | 257.7 | 260.0 |
| 55°   | 212.4 | 215.8 | 216.9 | 216.9  | 219.1 | 221.2 | 222.4 | 223.5 | 223.5 | 228.0 | 228.0 |
| 57.5° | 183.6 | 184.7 | 187.0 | 187.0  | 187.0 | 190.3 | 190.3 | 192.6 | 193.6 | 194.7 | 196.9 |
| 60°   | 155.0 | 157.1 | 157.1 | 158.2  | 157.1 | 159.3 | 160.4 | 162.7 | 163.8 | 164.8 | 165.9 |
| 62.5° | 128.3 | 128.3 | 129.4 | 129.4  | 129.4 | 129.4 | 131.7 | 131.7 | 133.9 | 135.0 | 136.0 |
| 65°   | 102.9 | 102.9 | 102.9 | 102.9  | 102.9 | 102.9 | 102.9 | 102.9 | 104.0 | 104.0 | 106.2 |
| 67.5° | 79.7  | 78.6  | 76.4  | 77.5   | 76.4  | 76.4  | 75.2  | 75.2  | 76.4  | 76.4  | 78.6  |
| 70°   | 57.5  | 56.4  | 54.2  | 54.2   | 53.1  | 52.1  | 50.9  | 49.8  | 48.7  | 48.7  | 48.7  |
| 72.5° | 37.6  | 35.4  | 32.1  | 31.0   | 31.0  | 28.8  | 26.5  | 25.4  | 25.4  | 25.4  | 25.4  |
| 75°   | 18.8  | 16.6  | 14.3  | 13.3   | 13.3  | 11.1  | 12.2  | 11.1  | 11.1  | 11.1  | 11.1  |
| 77.5° | 7.7   | 5.5   | 4.5   | 4.5    | 4.5   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 80°   | 2.2   | 1.1   | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 82.5° | 1.1   | 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   |



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P583872

CATALOG NUMBER: HCC8W15D010SL-HM80520835-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 828.8 | 828.8 | 828.8  | 828.8 | 828.8 | 828.8 | 828.8 | 828.8 |
| 2.5°  | 824.3 | 824.3 | 822.1  | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 |
| 5°    | 814.3 | 815.4 | 814.3  | 815.4 | 815.4 | 814.3 | 814.3 | 814.3 |
| 7.5°  | 804.3 | 805.5 | 804.3  | 805.5 | 805.5 | 805.5 | 804.3 | 804.3 |
| 10°   | 792.2 | 792.2 | 792.2  | 792.2 | 792.2 | 791.1 | 792.2 | 792.2 |
| 12.5° | 775.7 | 775.7 | 775.7  | 776.7 | 776.7 | 775.7 | 775.7 | 774.6 |
| 15°   | 757.9 | 755.7 | 756.9  | 757.9 | 756.9 | 756.9 | 756.9 | 756.9 |
| 17.5° | 733.6 | 734.7 | 733.6  | 733.6 | 733.6 | 733.6 | 734.7 | 733.6 |
| 20°   | 708.2 | 708.2 | 709.3  | 708.2 | 708.2 | 708.2 | 708.2 | 707.0 |
| 22.5° | 679.4 | 678.3 | 678.3  | 679.4 | 679.4 | 678.3 | 679.4 | 679.4 |
| 25°   | 647.3 | 648.4 | 647.3  | 647.3 | 648.4 | 648.4 | 648.4 | 647.3 |
| 27.5° | 613.0 | 614.1 | 615.2  | 614.1 | 614.1 | 614.1 | 615.2 | 616.4 |
| 30°   | 577.6 | 579.8 | 577.6  | 577.6 | 579.8 | 578.6 | 579.8 | 579.8 |
| 32.5° | 540.0 | 543.2 | 541.0  | 543.2 | 543.2 | 544.4 | 543.2 | 544.4 |
| 35°   | 502.4 | 505.6 | 505.6  | 505.6 | 506.7 | 507.9 | 507.9 | 506.7 |
| 37.5° | 466.9 | 468.0 | 468.0  | 470.2 | 471.4 | 472.5 | 472.5 | 471.4 |
| 40°   | 430.4 | 432.6 | 433.7  | 433.7 | 433.7 | 436.0 | 438.1 | 436.0 |
| 42.5° | 395.0 | 396.1 | 397.2  | 397.2 | 399.5 | 400.5 | 401.6 | 401.6 |
| 45°   | 360.7 | 362.9 | 364.0  | 365.1 | 366.2 | 368.5 | 367.4 | 369.6 |
| 47.5° | 325.4 | 328.6 | 329.7  | 330.8 | 333.1 | 334.1 | 335.2 | 336.3 |
| 50°   | 293.2 | 295.5 | 295.5  | 297.6 | 301.0 | 301.0 | 303.2 | 304.3 |
| 52.5° | 261.1 | 262.2 | 263.3  | 264.5 | 266.7 | 268.8 | 268.8 | 271.1 |
| 55°   | 230.2 | 231.2 | 231.2  | 232.3 | 233.4 | 237.9 | 239.0 | 239.0 |
| 57.5° | 198.1 | 198.1 | 200.3  | 201.4 | 202.4 | 204.7 | 204.7 | 204.7 |
| 60°   | 167.1 | 168.2 | 168.2  | 169.3 | 170.4 | 172.6 | 173.8 | 172.6 |
| 62.5° | 136.0 | 137.2 | 137.2  | 138.3 | 140.5 | 141.6 | 140.5 | 140.5 |
| 65°   | 107.4 | 108.4 | 108.4  | 109.5 | 111.7 | 111.7 | 110.6 | 111.7 |
| 67.5° | 78.6  | 78.6  | 78.6   | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  |
| 70°   | 49.8  | 48.7  | 47.6   | 48.7  | 48.7  | 48.7  | 47.6  | 49.8  |
| 72.5° | 24.3  | 25.4  | 25.4   | 25.4  | 25.4  | 25.4  | 25.4  | 24.3  |
| 75°   | 11.1  | 11.1  | 10.0   | 10.0  | 10.0  | 11.1  | 11.1  | 10.0  |
| 77.5° | 3.4   | 3.4   | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 80°   | 1.1   | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 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   |

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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)