

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: P581747

Luminaire Tested: **HCC6W15D010SL-HM60525835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W15D010SL-HM60525835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

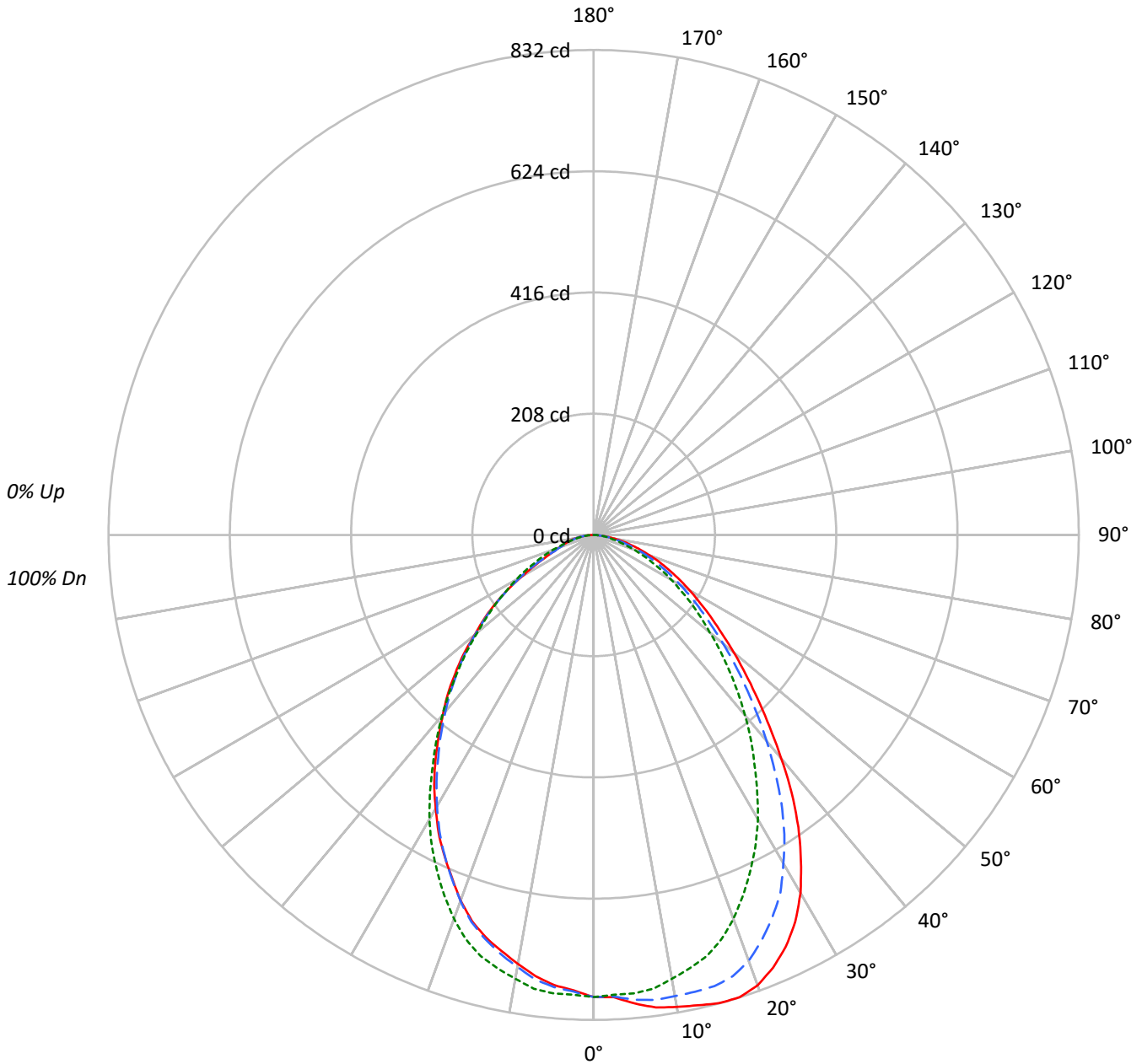
Lumens per Lamp: N/A  
Luminaire Lumens: 1552.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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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### 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   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |    |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |  |  |  |  |   |
| 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  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 43461 | 43461 | 43461 |
| 5°  | 44403 | 43446 | 42670 |
| 10° | 45763 | 43046 | 41599 |
| 15° | 47202 | 42475 | 40568 |
| 20° | 47960 | 40878 | 38923 |
| 25° | 47162 | 38452 | 36686 |
| 30° | 44906 | 35651 | 34277 |
| 35° | 40950 | 32183 | 31675 |
| 40° | 35810 | 28904 | 28754 |
| 45° | 30817 | 25437 | 26026 |
| 50° | 26788 | 22166 | 22635 |
| 55° | 23397 | 19459 | 19670 |
| 60° | 20777 | 16863 | 15426 |
| 65° | 18549 | 14191 | 11804 |
| 70° | 16317 | 11621 | 9889  |
| 75° | 14001 | 9193  | 9404  |
| 80° | 11302 | 7861  | 9250  |
| 85° | 7485  | 6793  | 8240  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.1   | 4.8       |
| 10°-20°   | 213.7  | 13.8      |
| 20°-30°   | 305.0  | 19.6      |
| 30°-40°   | 319.5  | 20.6      |
| 40°-50°   | 269.0  | 17.3      |
| 50°-60°   | 191.5  | 12.3      |
| 60°-70°   | 112.1  | 7.2       |
| 70°-80°   | 53.0   | 3.4       |
| 80°-90°   | 13.6   | 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°    | 593.8  | 38.2      |
| 0°-40°    | 913.3  | 58.8      |
| 0°-60°    | 1373.8 | 88.5      |
| 0°-90°    | 1552.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1552.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 793 | 793 | 793 | 793  | 793  |      |
| 5°  | 807 | 800 | 790 | 779  | 775  | 78   |
| 15° | 832 | 801 | 748 | 718  | 715  | 235  |
| 25° | 780 | 725 | 636 | 605  | 606  | 357  |
| 35° | 612 | 561 | 481 | 465  | 473  | 380  |
| 45° | 398 | 368 | 328 | 329  | 336  | 309  |
| 55° | 245 | 224 | 204 | 204  | 206  | 221  |
| 65° | 143 | 127 | 109 | 92   | 91   | 143  |
| 75° | 66  | 55  | 43  | 42   | 44   | 71   |
| 85° | 12  | 10  | 11  | 13   | 13   | 15   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8  | 792.8 | 792.8  | 792.8 |
| 2.5°  | 793.8 | 793.8 | 792.8 | 791.7 | 789.5 | 786.3  | 784.2 | 782.0  | 782.0 |
| 5°    | 806.9 | 804.7 | 800.4 | 795.0 | 789.5 | 783.0  | 778.7 | 775.4  | 775.4 |
| 7.5°  | 817.7 | 813.3 | 804.7 | 795.0 | 785.2 | 776.6  | 769.0 | 764.6  | 763.5 |
| 10°   | 822.1 | 816.6 | 803.6 | 788.5 | 773.3 | 761.4  | 752.7 | 747.3  | 747.3 |
| 12.5° | 826.4 | 819.9 | 802.6 | 780.9 | 761.4 | 745.1  | 736.5 | 732.2  | 731.1 |
| 15°   | 831.7 | 823.1 | 801.4 | 774.4 | 748.4 | 730.0  | 718.1 | 714.8  | 714.8 |
| 17.5° | 831.7 | 820.9 | 793.8 | 760.3 | 727.8 | 707.2  | 696.4 | 693.1  | 694.3 |
| 20°   | 822.1 | 810.2 | 777.6 | 736.5 | 700.7 | 679.1  | 668.3 | 666.1  | 667.2 |
| 22.5° | 803.6 | 789.5 | 752.7 | 708.4 | 669.3 | 646.6  | 636.8 | 636.8  | 635.7 |
| 25°   | 779.7 | 764.6 | 724.6 | 677.9 | 635.7 | 613.0  | 605.4 | 606.5  | 606.5 |
| 27.5° | 748.4 | 733.2 | 693.1 | 643.3 | 601.1 | 578.4  | 572.9 | 575.1  | 576.1 |
| 30°   | 709.4 | 693.1 | 650.9 | 602.2 | 563.2 | 540.5  | 537.2 | 540.5  | 541.5 |
| 32.5° | 661.7 | 649.8 | 608.7 | 558.9 | 522.0 | 502.6  | 501.4 | 504.7  | 509.0 |
| 35°   | 611.9 | 598.9 | 561.0 | 515.5 | 480.9 | 464.7  | 464.7 | 470.0  | 473.3 |
| 37.5° | 557.7 | 544.8 | 510.1 | 472.2 | 443.0 | 427.8  | 429.9 | 435.4  | 436.5 |
| 40°   | 500.4 | 490.7 | 461.4 | 428.9 | 403.9 | 392.0  | 395.3 | 400.8  | 401.8 |
| 42.5° | 446.2 | 437.5 | 413.7 | 384.5 | 366.0 | 357.4  | 361.7 | 368.2  | 370.4 |
| 45°   | 397.5 | 387.7 | 368.2 | 343.3 | 328.1 | 323.8  | 329.3 | 333.6  | 335.7 |
| 47.5° | 353.1 | 344.4 | 328.1 | 305.4 | 294.6 | 292.4  | 297.8 | 300.0  | 302.1 |
| 50°   | 314.1 | 305.4 | 289.2 | 268.5 | 259.9 | 259.9  | 264.2 | 266.4  | 265.4 |
| 52.5° | 276.1 | 268.5 | 253.4 | 236.1 | 230.7 | 230.7  | 233.9 | 235.1  | 237.2 |
| 55°   | 244.8 | 237.2 | 224.2 | 207.9 | 203.6 | 201.5  | 203.6 | 203.6  | 205.8 |
| 57.5° | 215.5 | 209.1 | 197.1 | 181.9 | 176.5 | 174.3  | 173.3 | 172.2  | 174.3 |
| 60°   | 189.5 | 184.1 | 171.2 | 158.1 | 153.8 | 148.3  | 144.0 | 139.7  | 140.7 |
| 62.5° | 165.7 | 160.3 | 148.3 | 135.4 | 131.1 | 123.5  | 118.0 | 112.6  | 114.7 |
| 65°   | 143.0 | 137.6 | 126.7 | 115.9 | 109.4 | 100.7  | 92.0  | 88.8   | 91.0  |
| 67.5° | 122.4 | 118.0 | 107.3 | 96.4  | 91.0  | 81.3   | 72.5  | 72.5   | 73.7  |
| 70°   | 101.8 | 97.5  | 88.8  | 79.1  | 72.5  | 63.9   | 60.6  | 61.7   | 61.7  |
| 72.5° | 83.4  | 80.1  | 71.5  | 62.8  | 56.3  | 50.8   | 50.8  | 52.0   | 53.1  |
| 75°   | 66.1  | 63.9  | 55.3  | 47.7  | 43.4  | 40.1   | 42.2  | 43.4   | 44.4  |
| 77.5° | 50.8  | 47.7  | 41.2  | 35.8  | 32.5  | 33.6   | 35.8  | 36.8   | 37.9  |
| 80°   | 35.8  | 34.6  | 29.3  | 26.0  | 24.9  | 26.0   | 28.1  | 29.3   | 29.3  |
| 82.5° | 22.7  | 21.7  | 18.4  | 17.4  | 17.4  | 18.4   | 20.5  | 20.5   | 20.5  |
| 85°   | 11.9  | 10.8  | 9.8   | 9.8   | 10.8  | 11.9   | 13.1  | 13.1   | 13.1  |
| 87.5° | 4.3   | 3.3   | 4.3   | 4.3   | 5.4   | 5.4    | 5.4   | 5.4    | 5.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

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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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