

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: P581763

Luminaire Tested: **HCC6S15D010MW-HM60525840-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S15D010MW-HM60525840-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

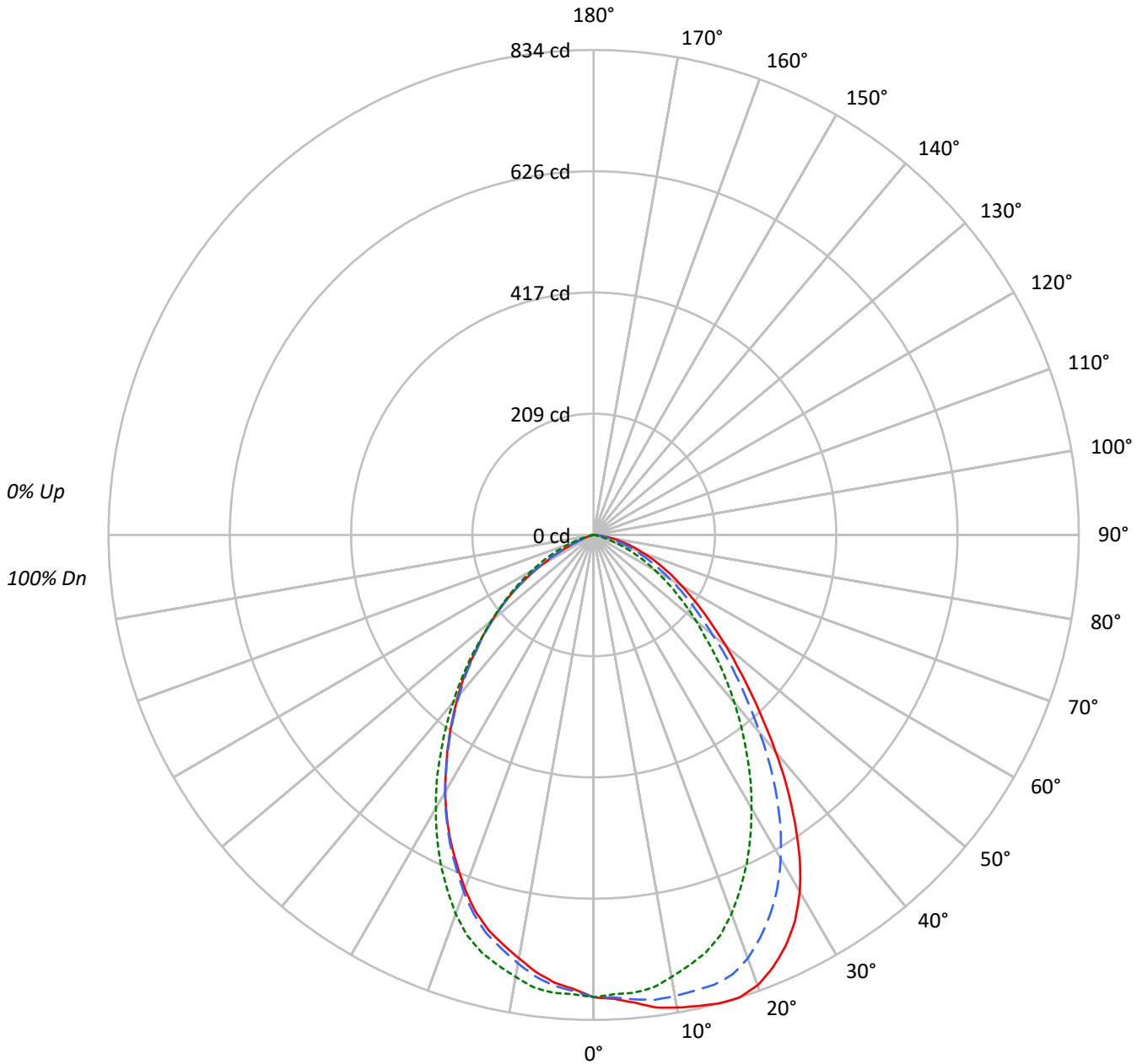
Lumens per Lamp: N/A  
Luminaire Lumens: 1417.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  |     |     |    |    | 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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |    |  |  |  |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    |  |  |  |  |   |
| 3   | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    |  |  |  |  |   |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  |    |    |    |  |  |  |  |   |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |    |    |    |  |  |  |  |   |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |    |  |  |  |  |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  |    |    |    |  |  |  |  |   |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |  |  |  |  |   |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    |    |  |  |  |  |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 43588 | 43588 | 43588 |
| 5°  | 44431 | 43506 | 42521 |
| 10° | 45941 | 42957 | 41148 |
| 15° | 47344 | 42208 | 39858 |
| 20° | 48083 | 40452 | 37774 |
| 25° | 47210 | 37678 | 35179 |
| 30° | 44880 | 34334 | 32283 |
| 35° | 40341 | 30684 | 29112 |
| 40° | 34815 | 26893 | 26006 |
| 45° | 29476 | 23150 | 22545 |
| 50° | 25270 | 19556 | 19360 |
| 55° | 21916 | 16458 | 15818 |
| 60° | 19121 | 13365 | 11271 |
| 65° | 16824 | 10299 | 6239  |
| 70° | 14522 | 6796  | 3061  |
| 75° | 12306 | 3325  | 1186  |
| 80° | 9534  | 1389  | 726   |
| 85° | 5661  | 692   | 692   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.0   | 5.3       |
| 10°-20°   | 212.2  | 15.0      |
| 20°-30°   | 298.8  | 21.1      |
| 30°-40°   | 305.3  | 21.5      |
| 40°-50°   | 246.2  | 17.4      |
| 50°-60°   | 165.1  | 11.7      |
| 60°-70°   | 83.6   | 5.9       |
| 70°-80°   | 26.7   | 1.9       |
| 80°-90°   | 4.1    | 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°    | 586.0  | 41.4      |
| 0°-40°    | 891.3  | 62.9      |
| 0°-60°    | 1302.6 | 91.9      |
| 0°-90°    | 1417.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1417.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 795 | 795 | 795 | 795  | 795  |      |
| 5°  | 807 | 802 | 791 | 778  | 773  | 78   |
| 15° | 834 | 801 | 744 | 710  | 702  | 236  |
| 25° | 780 | 719 | 623 | 585  | 582  | 357  |
| 35° | 603 | 548 | 458 | 433  | 435  | 375  |
| 45° | 380 | 350 | 299 | 288  | 291  | 296  |
| 55° | 229 | 204 | 172 | 164  | 166  | 206  |
| 65° | 130 | 107 | 79  | 53   | 48   | 129  |
| 75° | 58  | 41  | 16  | 6    | 6    | 62   |
| 85° | 9   | 4   | 1   | 1    | 1    | 12   |
| 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°    | 795.1 | 795.1 | 795.1 | 795.1 | 795.1 | 795.1  | 795.1 | 795.1  | 795.1 |
| 2.5°  | 798.5 | 797.3 | 796.2 | 794.0 | 790.6 | 787.2  | 785.1 | 782.8  | 781.7 |
| 5°    | 807.4 | 805.2 | 801.9 | 797.3 | 790.6 | 782.8  | 778.4 | 773.8  | 772.7 |
| 7.5°  | 819.7 | 815.3 | 806.3 | 796.2 | 785.1 | 773.8  | 766.0 | 761.6  | 758.2 |
| 10°   | 825.3 | 817.5 | 805.2 | 788.4 | 771.7 | 758.2  | 748.2 | 741.5  | 739.2 |
| 12.5° | 829.8 | 820.8 | 802.9 | 780.5 | 758.2 | 740.4  | 729.1 | 723.6  | 721.3 |
| 15°   | 834.2 | 825.3 | 800.7 | 771.7 | 743.7 | 722.4  | 710.2 | 704.5  | 702.3 |
| 17.5° | 834.2 | 822.0 | 792.9 | 756.0 | 722.4 | 696.7  | 684.4 | 678.8  | 677.7 |
| 20°   | 824.2 | 810.7 | 775.0 | 731.4 | 693.4 | 664.3  | 653.1 | 649.8  | 647.5 |
| 22.5° | 805.2 | 789.5 | 749.2 | 700.1 | 658.6 | 630.7  | 618.5 | 616.2  | 613.9 |
| 25°   | 780.5 | 764.9 | 719.0 | 666.5 | 622.9 | 595.0  | 584.9 | 582.6  | 581.6 |
| 27.5° | 749.2 | 732.5 | 684.4 | 630.7 | 583.7 | 556.9  | 548.0 | 548.0  | 546.8 |
| 30°   | 709.0 | 690.0 | 643.0 | 589.4 | 542.4 | 517.8  | 511.1 | 511.1  | 510.0 |
| 32.5° | 659.8 | 640.8 | 598.3 | 546.8 | 502.1 | 476.4  | 470.8 | 473.1  | 471.9 |
| 35°   | 602.8 | 587.1 | 548.0 | 497.7 | 458.5 | 435.0  | 432.8 | 435.0  | 435.0 |
| 37.5° | 545.7 | 531.2 | 497.7 | 454.0 | 417.1 | 395.9  | 395.9 | 399.3  | 398.2 |
| 40°   | 486.5 | 475.3 | 444.0 | 406.0 | 375.8 | 361.3  | 359.0 | 362.3  | 363.4 |
| 42.5° | 430.5 | 421.7 | 394.8 | 363.4 | 336.6 | 322.1  | 325.4 | 327.7  | 328.8 |
| 45°   | 380.2 | 371.3 | 350.0 | 317.6 | 298.6 | 288.5  | 288.5 | 291.9  | 290.8 |
| 47.5° | 335.5 | 328.8 | 307.6 | 276.3 | 259.5 | 254.9  | 257.2 | 259.5  | 259.5 |
| 50°   | 296.3 | 286.2 | 266.2 | 241.5 | 229.3 | 223.7  | 225.9 | 227.0  | 227.0 |
| 52.5° | 259.5 | 252.8 | 232.6 | 210.2 | 199.1 | 195.7  | 195.7 | 196.8  | 196.8 |
| 55°   | 229.3 | 221.4 | 203.5 | 181.1 | 172.2 | 167.8  | 164.3 | 163.3  | 165.5 |
| 57.5° | 200.2 | 193.5 | 176.7 | 155.5 | 145.4 | 140.9  | 134.2 | 132.0  | 134.2 |
| 60°   | 174.4 | 168.9 | 152.1 | 132.0 | 121.9 | 112.9  | 105.1 | 100.7  | 102.8 |
| 62.5° | 152.1 | 145.4 | 128.6 | 111.8 | 100.7 | 90.6   | 78.3  | 71.6   | 74.9  |
| 65°   | 129.7 | 124.2 | 107.4 | 90.6  | 79.4  | 67.1   | 52.6  | 48.1   | 48.1  |
| 67.5° | 109.6 | 104.0 | 88.3  | 73.8  | 60.4  | 45.9   | 32.5  | 31.3   | 32.5  |
| 70°   | 90.6  | 85.0  | 71.6  | 57.1  | 42.4  | 27.9   | 19.1  | 19.1   | 19.1  |
| 72.5° | 74.9  | 68.2  | 56.0  | 41.4  | 26.8  | 14.5   | 10.1  | 11.2   | 11.2  |
| 75°   | 58.1  | 52.6  | 41.4  | 27.9  | 15.7  | 6.7    | 5.6   | 5.6    | 5.6   |
| 77.5° | 43.6  | 39.2  | 29.1  | 17.9  | 7.8   | 2.3    | 2.3   | 2.3    | 2.3   |
| 80°   | 30.2  | 25.8  | 19.1  | 11.2  | 4.4   | 2.3    | 2.3   | 2.3    | 2.3   |
| 82.5° | 17.9  | 15.7  | 11.2  | 5.6   | 2.3   | 1.1    | 1.1   | 1.1    | 1.1   |
| 85°   | 9.0   | 7.8   | 4.4   | 2.3   | 1.1   | 1.1    | 1.1   | 1.1    | 1.1   |
| 87.5° | 2.3   | 2.3   | 1.1   | 1.1   | 0.0   | 1.1    | 1.1   | 0.0    | 0.0   |
| 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



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Scaled Data Report





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Scaled Data Report



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

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