

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: P581926

Luminaire Tested: **HCC6W20D010BZ-HM60525927-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010BZ-HM60525927-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

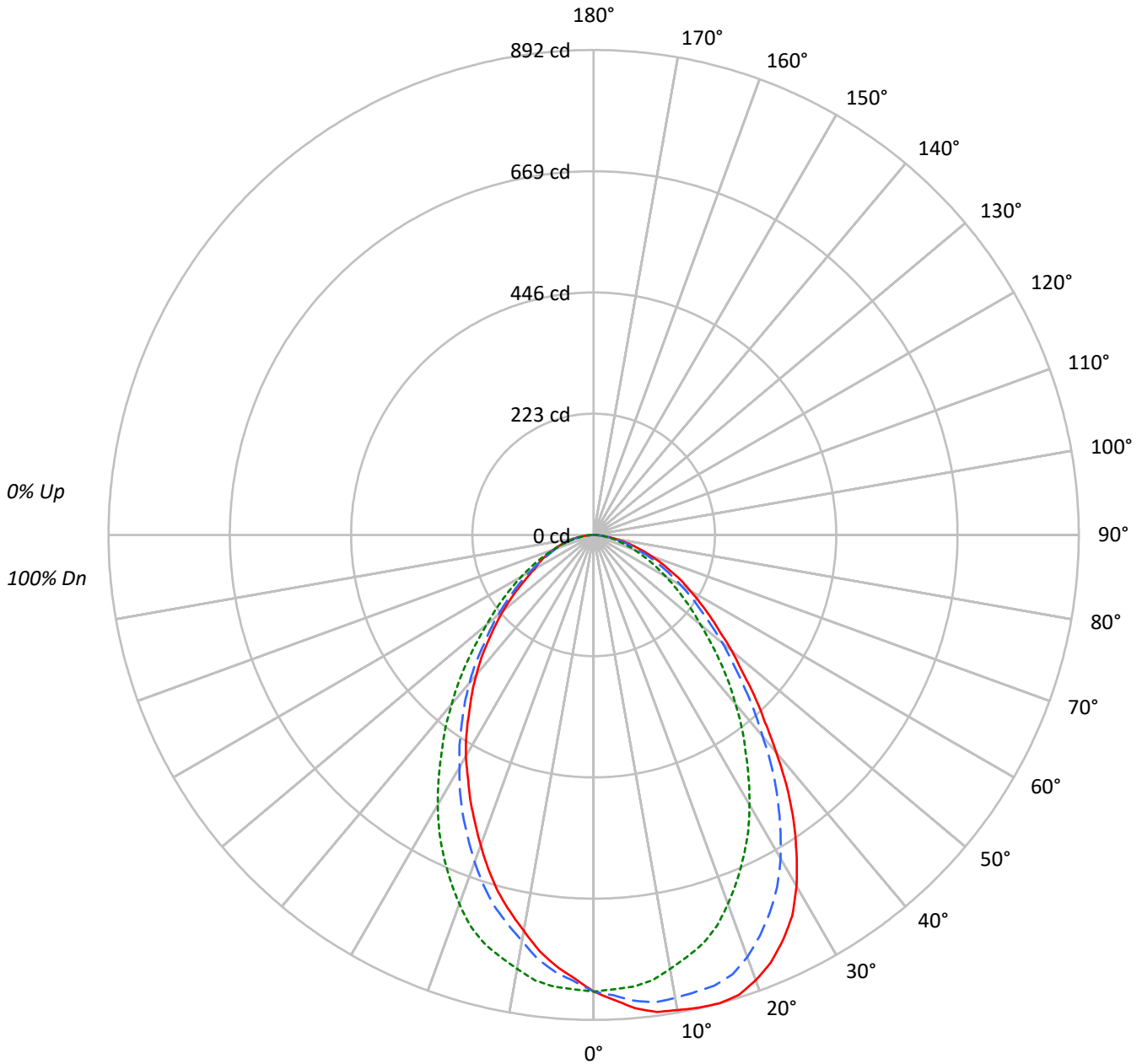
Lumens per Lamp: N/A  
Luminaire Lumens: 1564.5 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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





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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  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 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  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 46043 | 46043 | 46043 |
| 5°  | 48085 | 45906 | 43793 |
| 10° | 49398 | 45112 | 41154 |
| 15° | 50619 | 44138 | 38553 |
| 20° | 50842 | 42138 | 35417 |
| 25° | 49775 | 39456 | 32476 |
| 30° | 47229 | 36278 | 29764 |
| 35° | 42891 | 32605 | 26702 |
| 40° | 37370 | 29040 | 24024 |
| 45° | 32344 | 25413 | 21118 |
| 50° | 28246 | 21884 | 18515 |
| 55° | 24964 | 19230 | 15885 |
| 60° | 22432 | 16852 | 13749 |
| 65° | 20093 | 14671 | 13348 |
| 70° | 17936 | 12502 | 12502 |
| 75° | 15568 | 10527 | 11734 |
| 80° | 12470 | 8903  | 10702 |
| 85° | 8554  | 7862  | 9246  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.9   | 5.0       |
| 10°-20°   | 219.4  | 14.0      |
| 20°-30°   | 305.8  | 19.5      |
| 30°-40°   | 315.1  | 20.1      |
| 40°-50°   | 261.1  | 16.7      |
| 50°-60°   | 187.7  | 12.0      |
| 60°-70°   | 119.5  | 7.6       |
| 70°-80°   | 61.4   | 3.9       |
| 80°-90°   | 15.6   | 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°    | 604.1  | 38.6      |
| 0°-40°    | 919.2  | 58.8      |
| 0°-60°    | 1368.0 | 87.4      |
| 0°-90°    | 1564.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1564.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 840 | 840 | 840 | 840  | 840  |      |
| 5°  | 874 | 860 | 834 | 807  | 796  | 84   |
| 15° | 892 | 858 | 778 | 706  | 679  | 251  |
| 25° | 823 | 766 | 652 | 568  | 537  | 377  |
| 35° | 641 | 589 | 487 | 423  | 399  | 398  |
| 45° | 417 | 388 | 328 | 286  | 272  | 323  |
| 55° | 261 | 240 | 201 | 179  | 166  | 235  |
| 65° | 155 | 138 | 113 | 98   | 103  | 155  |
| 75° | 74  | 63  | 50  | 52   | 55   | 78   |
| 85° | 14  | 12  | 12  | 14   | 15   | 17   |
| 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°    | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9  | 839.9 | 839.9  | 839.9 |
| 2.5°  | 855.8 | 852.4 | 847.8 | 843.3 | 836.5 | 828.6  | 821.8 | 819.5  | 816.1 |
| 5°    | 873.8 | 869.2 | 860.2 | 849.0 | 834.2 | 819.5  | 807.1 | 799.2  | 795.8 |
| 7.5°  | 885.1 | 879.4 | 867.0 | 847.8 | 826.3 | 804.9  | 786.8 | 775.4  | 770.9 |
| 10°   | 887.4 | 881.7 | 864.7 | 838.8 | 810.4 | 781.1  | 758.5 | 744.9  | 739.3 |
| 12.5° | 890.8 | 882.8 | 861.3 | 830.8 | 794.7 | 760.8  | 732.5 | 715.5  | 709.9 |
| 15°   | 891.9 | 882.8 | 858.0 | 820.6 | 777.7 | 737.0  | 706.5 | 686.1  | 679.3 |
| 17.5° | 887.4 | 877.2 | 847.8 | 802.6 | 754.0 | 711.1  | 674.8 | 653.4  | 644.3 |
| 20°   | 871.5 | 860.2 | 826.3 | 775.4 | 722.3 | 677.1  | 639.8 | 617.1  | 607.1 |
| 22.5° | 851.2 | 836.5 | 798.1 | 743.8 | 688.4 | 640.9  | 603.7 | 581.0  | 570.8 |
| 25°   | 822.9 | 809.4 | 766.4 | 708.8 | 652.3 | 602.5  | 568.5 | 544.9  | 536.9 |
| 27.5° | 790.2 | 774.3 | 730.2 | 672.5 | 614.9 | 565.1  | 532.4 | 511.0  | 500.8 |
| 30°   | 746.1 | 731.4 | 687.3 | 629.6 | 573.1 | 526.7  | 492.9 | 474.7  | 470.2 |
| 32.5° | 694.1 | 681.6 | 638.7 | 584.4 | 530.1 | 487.2  | 459.0 | 439.7  | 435.2 |
| 35°   | 640.9 | 626.2 | 588.9 | 538.1 | 487.2 | 448.8  | 422.7 | 405.8  | 399.0 |
| 37.5° | 583.3 | 569.7 | 538.1 | 492.9 | 447.6 | 411.5  | 388.8 | 374.1  | 367.4 |
| 40°   | 522.2 | 512.1 | 482.7 | 446.5 | 405.8 | 374.1  | 355.0 | 342.5  | 335.7 |
| 42.5° | 465.8 | 455.6 | 435.2 | 401.3 | 367.4 | 339.1  | 322.1 | 310.9  | 305.2 |
| 45°   | 417.2 | 408.1 | 387.7 | 358.4 | 327.8 | 304.1  | 286.0 | 278.0  | 272.4 |
| 47.5° | 368.5 | 364.0 | 345.9 | 318.8 | 290.5 | 270.1  | 257.8 | 248.7  | 244.2 |
| 50°   | 331.2 | 325.5 | 308.6 | 280.3 | 256.6 | 240.8  | 229.4 | 221.5  | 217.1 |
| 52.5° | 292.8 | 287.1 | 271.2 | 247.6 | 228.3 | 213.7  | 202.4 | 195.6  | 191.0 |
| 55°   | 261.2 | 256.6 | 239.6 | 218.2 | 201.2 | 188.8  | 178.6 | 170.7  | 166.2 |
| 57.5° | 231.7 | 227.2 | 211.4 | 191.0 | 176.3 | 165.1  | 156.0 | 149.2  | 143.6 |
| 60°   | 204.6 | 201.2 | 185.4 | 166.2 | 153.7 | 142.4  | 134.5 | 128.8  | 125.4 |
| 62.5° | 180.8 | 174.0 | 160.5 | 143.6 | 132.2 | 123.2  | 115.3 | 111.9  | 114.2 |
| 65°   | 154.9 | 151.5 | 137.9 | 123.2 | 113.1 | 104.0  | 98.3  | 100.6  | 102.9 |
| 67.5° | 133.4 | 128.8 | 117.6 | 104.0 | 94.9  | 88.1   | 84.7  | 89.3   | 90.4  |
| 70°   | 111.9 | 107.4 | 97.2  | 85.9  | 78.0  | 73.5   | 73.5  | 76.8   | 78.0  |
| 72.5° | 91.5  | 88.1  | 79.1  | 70.1  | 64.5  | 61.1   | 63.3  | 65.6   | 66.7  |
| 75°   | 73.5  | 70.1  | 63.3  | 55.4  | 49.7  | 49.7   | 52.0  | 54.3   | 55.4  |
| 77.5° | 56.5  | 54.3  | 47.5  | 41.8  | 39.5  | 39.5   | 41.8  | 42.9   | 44.1  |
| 80°   | 39.5  | 37.3  | 33.9  | 30.5  | 28.2  | 30.5   | 32.7  | 32.7   | 33.9  |
| 82.5° | 25.9  | 24.8  | 22.7  | 20.4  | 20.4  | 21.5   | 22.7  | 23.8   | 23.8  |
| 85°   | 13.6  | 13.6  | 12.5  | 11.3  | 12.5  | 13.6   | 13.6  | 14.7   | 14.7  |
| 87.5° | 4.5   | 4.5   | 4.5   | 4.5   | 5.7   | 5.7    | 5.7   | 5.7    | 5.7   |
| 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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