

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: P581944

Luminaire Tested: **HCC6S20D010MW-HM60525930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581944  
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: HCC6S20D010MW-HM60525930-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

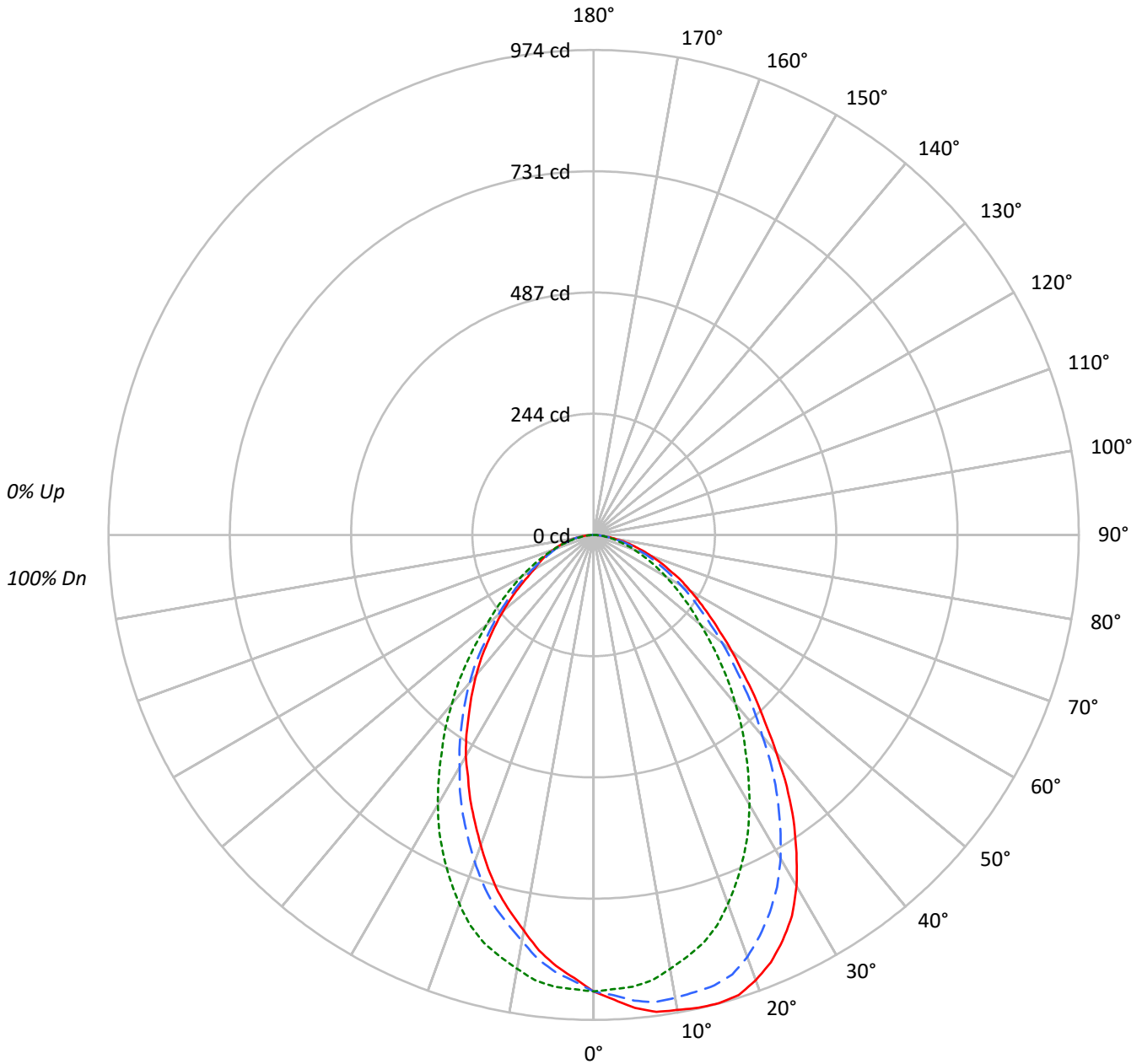
Lumens per Lamp: N/A  
Luminaire Lumens: 1707.9 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |    | 87  |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 50259 | 50259 | 50259 |
| 5°  | 52493 | 50115 | 47810 |
| 10° | 53924 | 49253 | 44922 |
| 15° | 55256 | 48184 | 42094 |
| 20° | 55503 | 46006 | 38661 |
| 25° | 54342 | 43067 | 35452 |
| 30° | 51552 | 39601 | 32499 |
| 35° | 46826 | 35590 | 29152 |
| 40° | 40798 | 31702 | 26228 |
| 45° | 35306 | 27747 | 23057 |
| 50° | 30831 | 23888 | 20204 |
| 55° | 27249 | 20998 | 17337 |
| 60° | 24483 | 18398 | 15021 |
| 65° | 21922 | 16007 | 14567 |
| 70° | 19571 | 13656 | 13656 |
| 75° | 16987 | 11501 | 12814 |
| 80° | 13638 | 9723  | 11681 |
| 85° | 9309  | 8554  | 10127 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.2   | 5.0       |
| 10°-20°   | 239.5  | 14.0      |
| 20°-30°   | 333.8  | 19.5      |
| 30°-40°   | 344.0  | 20.1      |
| 40°-50°   | 285.1  | 16.7      |
| 50°-60°   | 204.9  | 12.0      |
| 60°-70°   | 130.5  | 7.6       |
| 70°-80°   | 67.0   | 3.9       |
| 80°-90°   | 17.0   | 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°    | 659.5  | 38.6      |
| 0°-40°    | 1003.5 | 58.8      |
| 0°-60°    | 1493.4 | 87.4      |
| 0°-90°    | 1707.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1707.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 917 | 917 | 917 | 917  | 917  |      |
| 5°  | 954 | 939 | 911 | 881  | 869  | 91   |
| 15° | 974 | 937 | 849 | 771  | 742  | 274  |
| 25° | 898 | 837 | 712 | 621  | 586  | 412  |
| 35° | 700 | 643 | 532 | 462  | 436  | 435  |
| 45° | 455 | 423 | 358 | 312  | 297  | 352  |
| 55° | 285 | 262 | 220 | 195  | 181  | 257  |
| 65° | 169 | 151 | 123 | 107  | 112  | 169  |
| 75° | 80  | 69  | 54  | 57   | 60   | 86   |
| 85° | 15  | 14  | 14  | 15   | 16   | 19   |
| 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°    | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 | 916.8  | 916.8 | 916.8  | 916.8 |
| 2.5°  | 934.2 | 930.4 | 925.5 | 920.6 | 913.2 | 904.5  | 897.1 | 894.6  | 891.0 |
| 5°    | 953.9 | 949.0 | 939.0 | 926.8 | 910.7 | 894.6  | 881.1 | 872.4  | 868.8 |
| 7.5°  | 966.2 | 960.1 | 946.5 | 925.5 | 902.1 | 878.6  | 858.9 | 846.6  | 841.6 |
| 10°   | 968.7 | 962.5 | 944.0 | 915.7 | 884.8 | 852.7  | 828.0 | 813.3  | 807.0 |
| 12.5° | 972.5 | 963.7 | 940.3 | 907.0 | 867.5 | 830.5  | 799.7 | 781.1  | 775.0 |
| 15°   | 973.6 | 963.7 | 936.7 | 895.9 | 849.0 | 804.5  | 771.2 | 749.0  | 741.7 |
| 17.5° | 968.7 | 957.6 | 925.5 | 876.1 | 823.1 | 776.2  | 736.7 | 713.2  | 703.4 |
| 20°   | 951.4 | 939.0 | 902.1 | 846.6 | 788.6 | 739.2  | 698.5 | 673.8  | 662.7 |
| 22.5° | 929.2 | 913.2 | 871.2 | 812.0 | 751.5 | 699.7  | 659.0 | 634.3  | 623.2 |
| 25°   | 898.4 | 883.5 | 836.6 | 773.7 | 712.0 | 657.7  | 620.7 | 594.8  | 586.1 |
| 27.5° | 862.6 | 845.3 | 797.2 | 734.2 | 671.3 | 617.0  | 581.2 | 557.8  | 546.7 |
| 30°   | 814.4 | 798.4 | 750.3 | 687.4 | 625.6 | 575.0  | 538.1 | 518.2  | 513.4 |
| 32.5° | 757.6 | 744.2 | 697.2 | 638.0 | 578.7 | 531.8  | 501.0 | 480.1  | 475.1 |
| 35°   | 699.7 | 683.7 | 642.9 | 587.3 | 531.8 | 489.9  | 461.5 | 443.0  | 435.6 |
| 37.5° | 636.7 | 621.9 | 587.3 | 538.1 | 488.7 | 449.2  | 424.5 | 408.4  | 401.1 |
| 40°   | 570.1 | 559.0 | 527.0 | 487.4 | 443.0 | 408.4  | 387.5 | 373.9  | 366.5 |
| 42.5° | 508.4 | 497.3 | 475.1 | 438.0 | 401.1 | 370.2  | 351.7 | 339.3  | 333.2 |
| 45°   | 455.4 | 445.5 | 423.3 | 391.2 | 357.9 | 332.0  | 312.3 | 303.5  | 297.4 |
| 47.5° | 402.3 | 397.3 | 377.6 | 347.9 | 317.1 | 294.9  | 281.3 | 271.5  | 266.6 |
| 50°   | 361.5 | 355.4 | 336.8 | 306.0 | 280.1 | 262.9  | 250.5 | 241.9  | 236.9 |
| 52.5° | 319.6 | 313.4 | 296.2 | 270.2 | 249.3 | 233.3  | 220.9 | 213.5  | 208.6 |
| 55°   | 285.1 | 280.1 | 261.6 | 238.2 | 219.7 | 206.1  | 195.0 | 186.4  | 181.4 |
| 57.5° | 253.0 | 248.0 | 230.8 | 208.6 | 192.5 | 180.1  | 170.3 | 162.9  | 156.7 |
| 60°   | 223.3 | 219.7 | 202.4 | 181.4 | 167.8 | 155.4  | 146.8 | 140.7  | 137.0 |
| 62.5° | 197.5 | 190.0 | 175.3 | 156.7 | 144.3 | 134.5  | 125.9 | 122.1  | 124.6 |
| 65°   | 169.0 | 165.3 | 150.6 | 134.5 | 123.4 | 113.5  | 107.4 | 109.8  | 112.3 |
| 67.5° | 145.6 | 140.7 | 128.4 | 113.5 | 103.7 | 96.3   | 92.6  | 97.4   | 98.7  |
| 70°   | 122.1 | 117.3 | 106.2 | 93.8  | 85.2  | 80.2   | 80.2  | 84.0   | 85.2  |
| 72.5° | 99.9  | 96.3  | 86.3  | 76.5  | 70.4  | 66.6   | 69.1  | 71.6   | 72.9  |
| 75°   | 80.2  | 76.5  | 69.1  | 60.5  | 54.3  | 54.3   | 56.8  | 59.3   | 60.5  |
| 77.5° | 61.7  | 59.3  | 51.8  | 45.7  | 43.2  | 43.2   | 45.7  | 46.9   | 48.2  |
| 80°   | 43.2  | 40.7  | 37.0  | 33.3  | 30.8  | 33.3   | 35.8  | 35.8   | 37.0  |
| 82.5° | 28.4  | 27.2  | 24.7  | 22.2  | 22.2  | 23.5   | 24.7  | 25.9   | 25.9  |
| 85°   | 14.8  | 14.8  | 13.6  | 12.3  | 13.6  | 14.8   | 14.8  | 16.1   | 16.1  |
| 87.5° | 5.0   | 5.0   | 5.0   | 5.0   | 6.1   | 6.1    | 6.1   | 6.1    | 6.1   |
| 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





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Scaled Data Report



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

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