

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: P581757

Luminaire Tested: **HCC6W15D010MB-HM60525840-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W15D010MB-HM60525840-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

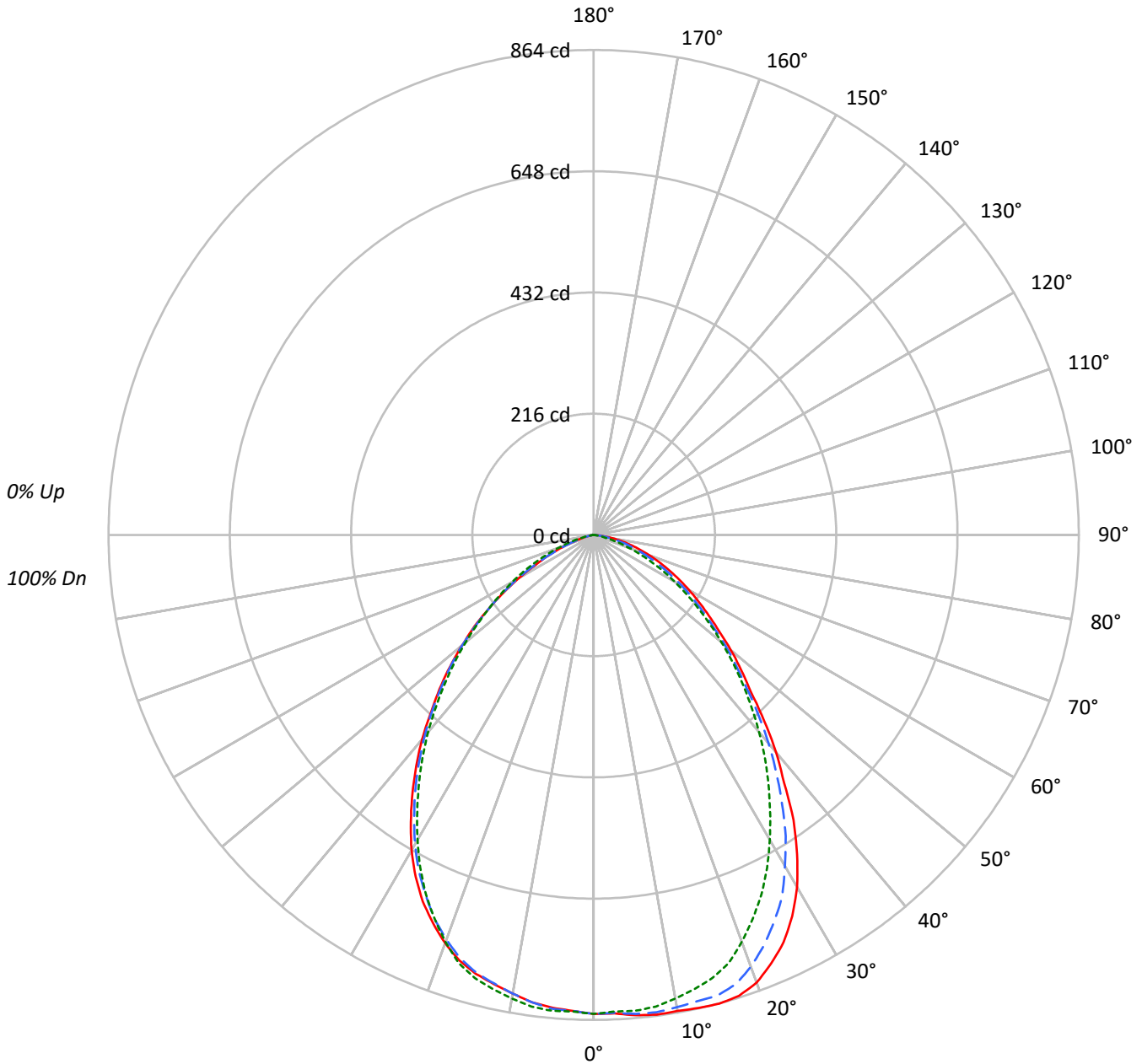
Lumens per Lamp: N/A  
Luminaire Lumens: 1671.9 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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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 |    |    |    |    |    |   |  |   |
| 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  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    |    |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |    |    |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |    |    |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    |    |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 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  | 41  | 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  | 59  | 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°  | 46778 | 46778 | 46778 |
| 5°  | 47265 | 46830 | 46528 |
| 10° | 47928 | 46687 | 46192 |
| 15° | 49058 | 46391 | 45948 |
| 20° | 49518 | 45014 | 45142 |
| 25° | 48426 | 42752 | 43563 |
| 30° | 45868 | 39709 | 41063 |
| 35° | 41532 | 36299 | 37644 |
| 40° | 36168 | 32811 | 34007 |
| 45° | 30693 | 29050 | 30088 |
| 50° | 27180 | 25372 | 26038 |
| 55° | 23942 | 21696 | 21591 |
| 60° | 21457 | 18266 | 16797 |
| 65° | 19159 | 14645 | 12038 |
| 70° | 16846 | 10563 | 7533  |
| 75° | 14212 | 6397  | 4257  |
| 80° | 10923 | 2841  | 1768  |
| 85° | 6353  | 692   | 692   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.0   | 4.8       |
| 10°-20°   | 232.8  | 13.9      |
| 20°-30°   | 336.5  | 20.1      |
| 30°-40°   | 354.1  | 21.2      |
| 40°-50°   | 297.6  | 17.8      |
| 50°-60°   | 208.9  | 12.5      |
| 60°-70°   | 114.9  | 6.9       |
| 70°-80°   | 40.8   | 2.4       |
| 80°-90°   | 5.3    | 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°    | 650.3  | 38.9      |
| 0°-40°    | 1004.3 | 60.1      |
| 0°-60°    | 1510.9 | 90.4      |
| 0°-90°    | 1671.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1671.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 853 | 853 | 853 | 853  | 853  |      |
| 5°  | 859 | 857 | 851 | 848  | 846  | 82   |
| 15° | 864 | 850 | 817 | 807  | 810  | 244  |
| 25° | 801 | 760 | 707 | 708  | 720  | 366  |
| 35° | 621 | 585 | 542 | 554  | 562  | 385  |
| 45° | 396 | 385 | 375 | 384  | 388  | 311  |
| 55° | 250 | 237 | 227 | 227  | 226  | 225  |
| 65° | 148 | 132 | 113 | 93   | 93   | 147  |
| 75° | 67  | 54  | 30  | 20   | 20   | 72   |
| 85° | 10  | 6   | 1   | 1    | 1    | 14   |
| 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°    | 853.3 | 853.3 | 853.3 | 853.3 | 853.3 | 853.3  | 853.3 | 853.3  | 853.3 |
| 2.5°  | 853.3 | 853.3 | 852.2 | 852.2 | 849.9 | 849.9  | 848.8 | 848.8  | 848.8 |
| 5°    | 858.9 | 858.9 | 856.6 | 853.3 | 851.0 | 847.6  | 847.6 | 846.5  | 845.5 |
| 7.5°  | 862.1 | 861.0 | 857.7 | 853.3 | 847.6 | 842.1  | 839.8 | 840.9  | 839.8 |
| 10°   | 861.0 | 858.9 | 854.3 | 845.5 | 838.7 | 830.8  | 829.8 | 828.7  | 829.8 |
| 12.5° | 863.3 | 860.0 | 851.0 | 839.8 | 828.7 | 819.7  | 818.6 | 818.6  | 819.7 |
| 15°   | 864.4 | 861.0 | 849.9 | 833.1 | 817.4 | 808.5  | 807.4 | 808.5  | 809.6 |
| 17.5° | 861.0 | 856.6 | 839.8 | 817.4 | 799.6 | 790.6  | 790.6 | 792.8  | 795.1 |
| 20°   | 848.8 | 842.1 | 818.6 | 791.8 | 771.6 | 764.9  | 767.1 | 771.6  | 773.8 |
| 22.5° | 826.4 | 818.6 | 791.8 | 761.6 | 740.2 | 734.7  | 740.2 | 745.9  | 748.1 |
| 25°   | 800.6 | 791.8 | 760.4 | 729.1 | 706.8 | 700.1  | 707.9 | 716.9  | 720.2 |
| 27.5° | 766.0 | 755.9 | 726.9 | 691.1 | 668.7 | 665.3  | 674.3 | 684.4  | 686.6 |
| 30°   | 724.6 | 713.5 | 681.0 | 647.5 | 627.3 | 626.2  | 636.3 | 645.2  | 648.7 |
| 32.5° | 674.3 | 664.2 | 636.3 | 602.8 | 584.9 | 584.9  | 595.0 | 602.8  | 606.1 |
| 35°   | 620.6 | 609.5 | 584.9 | 556.9 | 542.4 | 543.4  | 553.5 | 559.1  | 562.5 |
| 37.5° | 556.9 | 553.5 | 534.6 | 511.1 | 501.0 | 503.3  | 511.1 | 515.5  | 518.9 |
| 40°   | 505.4 | 496.6 | 484.2 | 465.2 | 458.5 | 460.7  | 468.5 | 473.1  | 475.2 |
| 42.5° | 449.6 | 443.9 | 433.9 | 420.5 | 416.0 | 419.4  | 426.1 | 429.4  | 428.3 |
| 45°   | 395.9 | 394.8 | 384.7 | 376.8 | 374.7 | 379.1  | 383.5 | 386.9  | 388.1 |
| 47.5° | 356.7 | 352.3 | 343.3 | 337.7 | 335.5 | 339.9  | 344.5 | 346.6  | 346.6 |
| 50°   | 318.7 | 314.3 | 305.3 | 299.6 | 297.5 | 301.9  | 305.3 | 307.5  | 305.3 |
| 52.5° | 280.7 | 276.3 | 268.4 | 261.7 | 260.6 | 262.8  | 263.9 | 265.0  | 267.3 |
| 55°   | 250.5 | 246.1 | 237.1 | 229.3 | 227.0 | 228.1  | 227.0 | 227.0  | 225.9 |
| 57.5° | 221.4 | 216.9 | 208.0 | 199.1 | 195.7 | 194.5  | 191.2 | 190.1  | 189.0 |
| 60°   | 195.7 | 190.1 | 181.1 | 171.0 | 166.6 | 162.2  | 156.5 | 153.2  | 153.2 |
| 62.5° | 171.0 | 165.5 | 155.5 | 146.5 | 139.8 | 132.0  | 123.0 | 118.5  | 118.5 |
| 65°   | 147.7 | 143.1 | 132.0 | 121.9 | 112.9 | 102.8  | 92.8  | 90.6   | 92.8  |
| 67.5° | 125.2 | 120.8 | 109.6 | 99.5  | 88.3  | 76.0   | 67.1  | 67.1   | 69.3  |
| 70°   | 105.1 | 100.7 | 90.6  | 78.3  | 65.9  | 53.7   | 47.0  | 47.0   | 47.0  |
| 72.5° | 86.1  | 81.6  | 70.5  | 59.2  | 47.0  | 34.6   | 31.3  | 32.5   | 31.3  |
| 75°   | 67.1  | 63.8  | 53.7  | 41.4  | 30.2  | 21.2   | 20.1  | 19.0   | 20.1  |
| 77.5° | 50.3  | 47.0  | 38.0  | 26.8  | 16.8  | 12.3   | 11.2  | 11.2   | 11.2  |
| 80°   | 34.6  | 31.3  | 24.6  | 15.7  | 9.0   | 5.6    | 5.6   | 5.6    | 5.6   |
| 82.5° | 21.2  | 17.9  | 13.4  | 7.8   | 3.4   | 3.4    | 3.4   | 3.4    | 3.4   |
| 85°   | 10.1  | 7.8   | 5.6   | 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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