

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: P581882

Luminaire Tested: **HCC6W20D010MW-HM60525835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010MW-HM60525835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

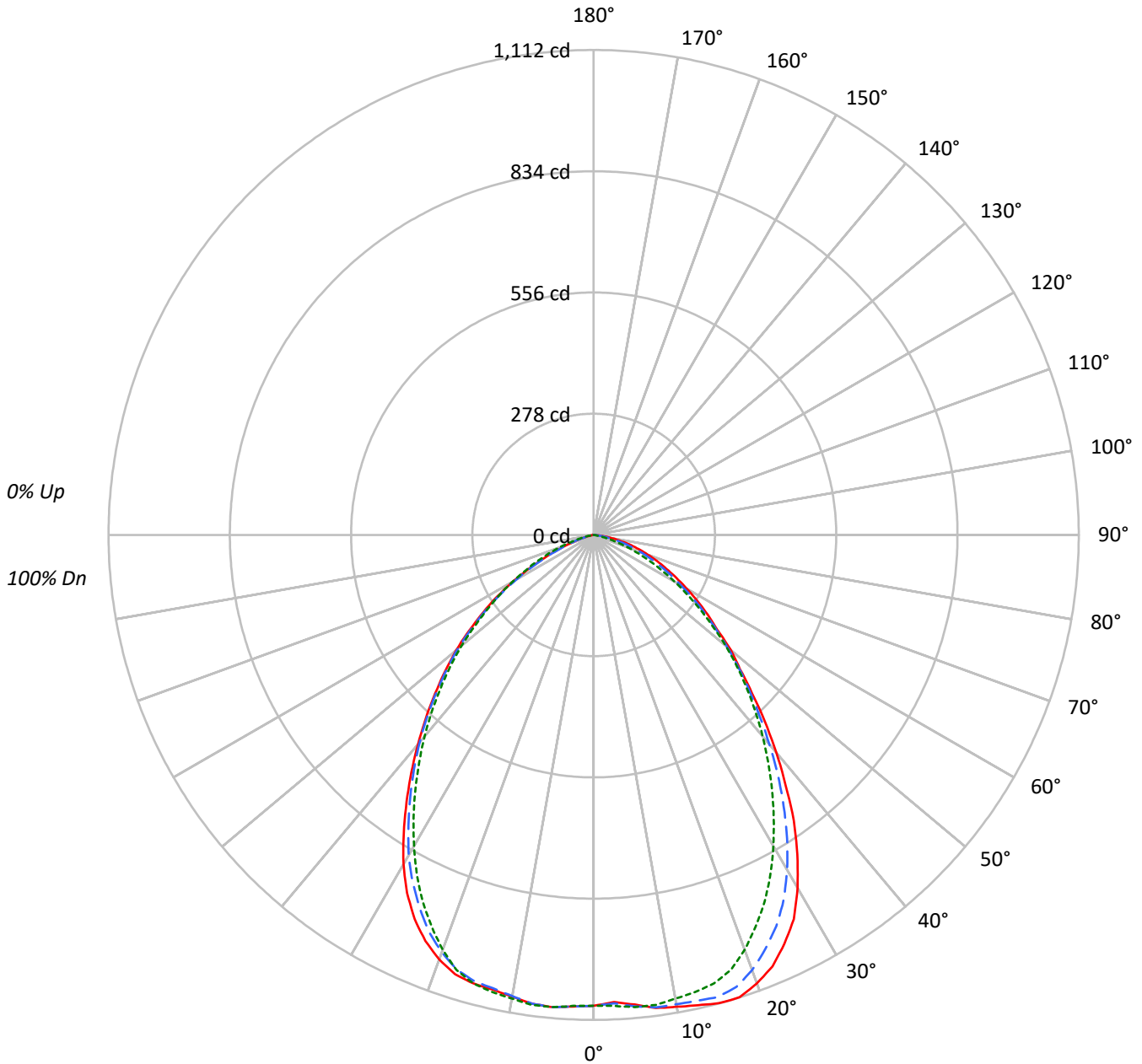
Lumens per Lamp: N/A  
Luminaire Lumens: 2179.4 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |    | 68  |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |    | 60  |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 59178 | 59178 | 59178 |
| 5°  | 59487 | 59812 | 59812 |
| 10° | 61155 | 60091 | 59846 |
| 15° | 63093 | 60437 | 60437 |
| 20° | 63828 | 59050 | 60421 |
| 25° | 62556 | 56096 | 58751 |
| 30° | 59167 | 52135 | 55186 |
| 35° | 53545 | 47669 | 50018 |
| 40° | 46580 | 43124 | 44805 |
| 45° | 39810 | 38446 | 39810 |
| 50° | 34933 | 33688 | 35061 |
| 55° | 30479 | 28386 | 29495 |
| 60° | 26939 | 23573 | 23255 |
| 65° | 23907 | 18588 | 15929 |
| 70° | 21109 | 13127 | 9601  |
| 75° | 17983 | 7434  | 4660  |
| 80° | 13386 | 2336  | 1389  |
| 85° | 7359  | 943   | 943   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.6  | 4.8       |
| 10°-20°   | 303.0  | 13.9      |
| 20°-30°   | 442.5  | 20.3      |
| 30°-40°   | 464.1  | 21.3      |
| 40°-50°   | 391.0  | 17.9      |
| 50°-60°   | 273.9  | 12.6      |
| 60°-70°   | 146.8  | 6.7       |
| 70°-80°   | 49.3   | 2.3       |
| 80°-90°   | 5.4    | 0.2       |
| 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°    | 849.0  | 39.0      |
| 0°-40°    | 1313.1 | 60.2      |
| 0°-60°    | 1978.0 | 90.8      |
| 0°-90°    | 2179.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2179.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1080 | 1080 | 1080 | 1080 | 1080 |      |
| 5°  | 1081 | 1085 | 1087 | 1087 | 1087 | 104  |
| 15° | 1112 | 1097 | 1065 | 1059 | 1065 | 314  |
| 25° | 1034 | 990  | 927  | 943  | 971  | 474  |
| 35° | 800  | 759  | 712  | 733  | 747  | 497  |
| 45° | 514  | 505  | 496  | 509  | 514  | 400  |
| 55° | 319  | 309  | 297  | 303  | 309  | 287  |
| 65° | 184  | 168  | 143  | 118  | 123  | 184  |
| 75° | 85   | 66   | 35   | 22   | 22   | 90   |
| 85° | 12   | 6    | 2    | 2    | 2    | 16   |
| 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°    | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1079.5 |
| 2.5°  | 1072.2 | 1072.2 | 1075.1 | 1078.0 | 1081.0 | 1081.0 | 1082.5 | 1083.9 | 1082.5 |
| 5°    | 1081.0 | 1081.0 | 1085.4 | 1086.9 | 1086.9 | 1085.4 | 1086.9 | 1086.9 | 1086.9 |
| 7.5°  | 1094.1 | 1091.2 | 1092.7 | 1089.7 | 1086.9 | 1085.4 | 1083.9 | 1083.9 | 1083.9 |
| 10°   | 1098.6 | 1095.6 | 1092.7 | 1086.9 | 1079.5 | 1075.1 | 1073.6 | 1075.1 | 1075.1 |
| 12.5° | 1104.4 | 1101.5 | 1094.1 | 1082.5 | 1073.6 | 1066.4 | 1064.9 | 1067.9 | 1067.9 |
| 15°   | 1111.7 | 1108.8 | 1097.1 | 1078.0 | 1064.9 | 1057.5 | 1059.0 | 1062.0 | 1064.9 |
| 17.5° | 1111.7 | 1105.8 | 1086.9 | 1062.0 | 1045.9 | 1038.6 | 1044.4 | 1051.8 | 1056.1 |
| 20°   | 1094.1 | 1088.2 | 1062.0 | 1031.3 | 1012.2 | 1007.8 | 1018.1 | 1031.3 | 1035.7 |
| 22.5° | 1070.8 | 1059.0 | 1028.3 | 991.7  | 971.3  | 971.3  | 985.9  | 1002.0 | 1007.8 |
| 25°   | 1034.2 | 1025.4 | 990.2  | 947.9  | 927.4  | 925.9  | 943.4  | 965.4  | 971.3  |
| 27.5° | 993.2  | 981.5  | 943.4  | 899.6  | 877.6  | 879.1  | 898.1  | 920.1  | 925.9  |
| 30°   | 934.7  | 920.1  | 886.5  | 844.0  | 823.6  | 829.4  | 848.4  | 864.5  | 871.8  |
| 32.5° | 868.9  | 855.8  | 825.1  | 785.5  | 767.9  | 773.8  | 789.9  | 804.5  | 810.3  |
| 35°   | 800.1  | 785.5  | 759.2  | 724.1  | 712.3  | 718.2  | 732.8  | 744.6  | 747.4  |
| 37.5° | 722.6  | 712.3  | 693.4  | 665.5  | 656.8  | 664.1  | 675.8  | 683.1  | 686.0  |
| 40°   | 650.9  | 642.2  | 626.1  | 605.6  | 602.6  | 608.5  | 620.2  | 624.6  | 626.1  |
| 42.5° | 580.8  | 573.4  | 563.2  | 548.5  | 548.5  | 554.4  | 564.6  | 567.5  | 569.0  |
| 45°   | 513.5  | 509.1  | 504.6  | 493.0  | 495.9  | 503.2  | 509.1  | 513.5  | 513.5  |
| 47.5° | 454.9  | 456.4  | 450.5  | 441.8  | 444.7  | 452.0  | 456.4  | 460.8  | 460.8  |
| 50°   | 409.6  | 405.2  | 399.4  | 390.5  | 395.0  | 400.9  | 406.6  | 409.6  | 411.1  |
| 52.5° | 356.9  | 355.4  | 351.1  | 340.8  | 343.8  | 346.7  | 352.5  | 356.9  | 358.4  |
| 55°   | 318.9  | 314.5  | 308.6  | 297.0  | 297.0  | 299.9  | 302.7  | 305.7  | 308.6  |
| 57.5° | 282.3  | 277.9  | 269.2  | 255.9  | 254.5  | 254.5  | 253.1  | 255.9  | 260.4  |
| 60°   | 245.7  | 244.3  | 231.1  | 219.5  | 215.0  | 210.6  | 204.7  | 206.2  | 212.1  |
| 62.5° | 213.6  | 210.6  | 199.0  | 184.3  | 175.5  | 168.3  | 160.9  | 159.4  | 165.3  |
| 65°   | 184.3  | 181.4  | 168.3  | 153.6  | 143.3  | 130.2  | 118.5  | 118.5  | 122.8  |
| 67.5° | 157.9  | 152.2  | 140.4  | 124.3  | 111.1  | 95.1   | 83.4   | 86.3   | 87.8   |
| 70°   | 131.7  | 127.2  | 114.1  | 98.0   | 81.9   | 65.8   | 58.5   | 59.9   | 59.9   |
| 72.5° | 108.2  | 102.4  | 89.3   | 73.2   | 57.1   | 42.4   | 39.5   | 38.1   | 38.1   |
| 75°   | 84.9   | 79.0   | 65.8   | 49.7   | 35.1   | 24.8   | 22.0   | 22.0   | 22.0   |
| 77.5° | 61.4   | 57.1   | 45.3   | 30.7   | 19.0   | 11.7   | 10.2   | 8.7    | 8.7    |
| 80°   | 42.4   | 38.1   | 27.8   | 16.1   | 7.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 82.5° | 24.8   | 20.5   | 13.1   | 7.4    | 2.9    | 1.5    | 1.5    | 1.5    | 1.5    |
| 85°   | 11.7   | 8.7    | 5.9    | 2.9    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 87.5° | 1.5    | 1.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 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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