

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: P582069

Luminaire Tested: **HCC6W25D010MB-HM60525927-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582069  
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: HCC6W25D010MB-HM60525927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

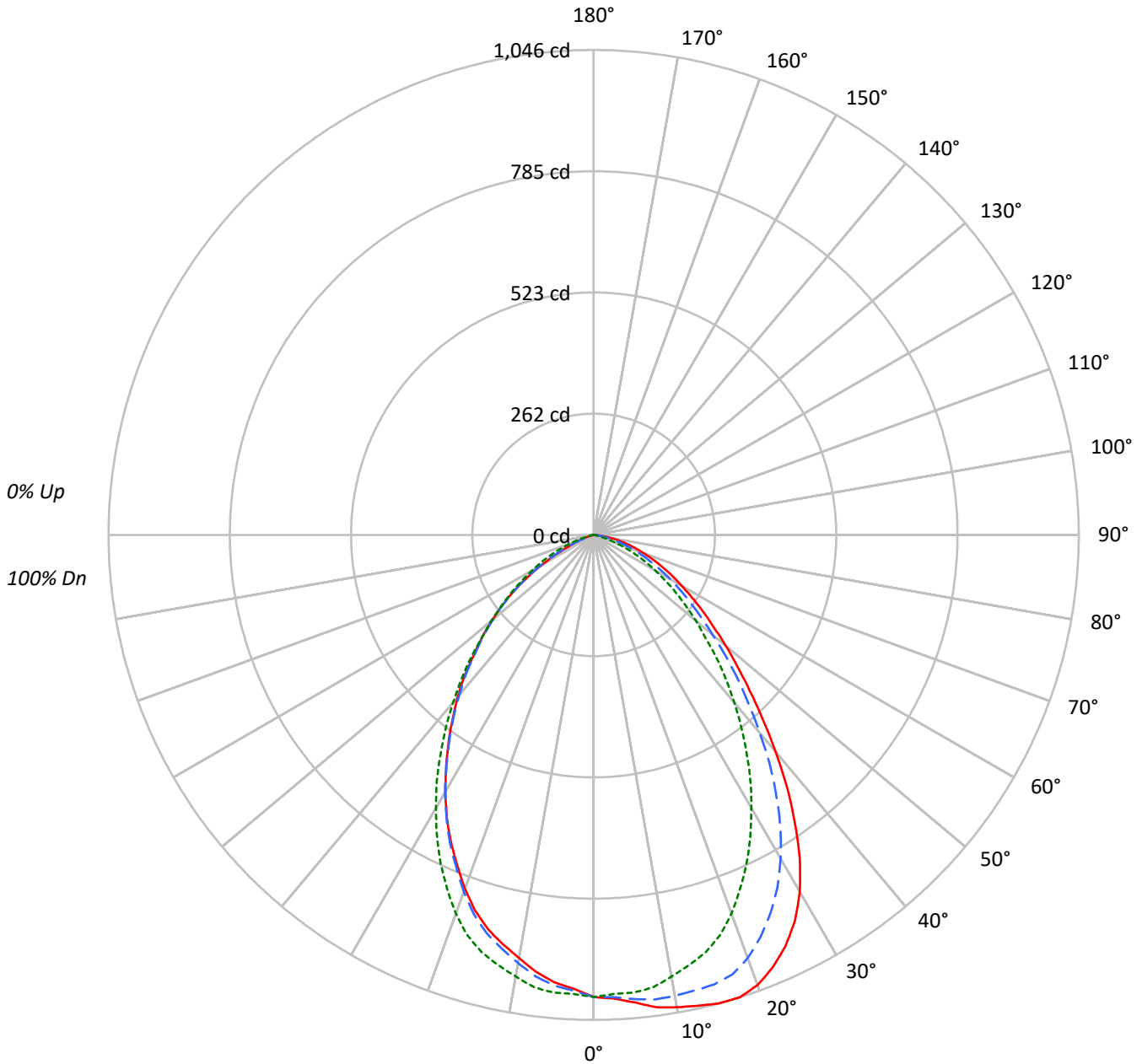
Lumens per Lamp: N/A  
Luminaire Lumens: 1776.1 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |    |    | 89  |   |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    |    | 78  |   |  |   |
| 3   | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  |    |    |    |    | 61  |   |  |   |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |    |    |    |    | 54  |   |  |   |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  |    |    |    |    | 44  |   |  |   |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    |    |    | 37  |   |  |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 54634 | 54634 | 54634 |
| 5°  | 55690 | 54534 | 53302 |
| 10° | 57586 | 53840 | 51580 |
| 15° | 59353 | 52900 | 49966 |
| 20° | 60269 | 50702 | 47347 |
| 25° | 59187 | 47222 | 44089 |
| 30° | 56262 | 43038 | 40462 |
| 35° | 50567 | 38467 | 36493 |
| 40° | 43632 | 33706 | 32604 |
| 45° | 36950 | 29019 | 28259 |
| 50° | 31683 | 24502 | 24272 |
| 55° | 27459 | 20635 | 19832 |
| 60° | 23967 | 16742 | 14133 |
| 65° | 21092 | 12907 | 7822  |
| 70° | 18192 | 8543  | 3815  |
| 75° | 15441 | 4173  | 1483  |
| 80° | 11933 | 1768  | 884   |
| 85° | 7045  | 881   | 881   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.0   | 5.3       |
| 10°-20°   | 266.0  | 15.0      |
| 20°-30°   | 374.5  | 21.1      |
| 30°-40°   | 382.7  | 21.5      |
| 40°-50°   | 308.5  | 17.4      |
| 50°-60°   | 206.9  | 11.7      |
| 60°-70°   | 104.7  | 5.9       |
| 70°-80°   | 33.5   | 1.9       |
| 80°-90°   | 5.2    | 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°    | 734.6  | 41.4      |
| 0°-40°    | 1117.2 | 62.9      |
| 0°-60°    | 1632.7 | 91.9      |
| 0°-90°    | 1776.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1776.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 997  | 997  | 997 | 997  | 997  |      |
| 5°  | 1012 | 1005 | 991 | 976  | 969  | 97   |
| 15° | 1046 | 1004 | 932 | 890  | 880  | 295  |
| 25° | 978  | 901  | 781 | 733  | 729  | 448  |
| 35° | 756  | 687  | 575 | 542  | 545  | 470  |
| 45° | 477  | 439  | 374 | 362  | 364  | 371  |
| 55° | 287  | 255  | 216 | 206  | 208  | 259  |
| 65° | 163  | 135  | 100 | 66   | 60   | 162  |
| 75° | 73   | 52   | 20  | 7    | 7    | 78   |
| 85° | 11   | 6    | 1   | 1    | 1    | 15   |
| 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°    | 996.6  | 996.6  | 996.6  | 996.6 | 996.6 | 996.6  | 996.6 | 996.6  | 996.6 |
| 2.5°  | 1000.9 | 999.4  | 998.0  | 995.3 | 991.0 | 986.9  | 984.0 | 981.2  | 979.8 |
| 5°    | 1012.0 | 1009.3 | 1005.0 | 999.4 | 991.0 | 981.2  | 975.6 | 970.1  | 968.6 |
| 7.5°  | 1027.5 | 1021.8 | 1010.7 | 998.0 | 984.0 | 970.1  | 960.2 | 954.5  | 950.4 |
| 10°   | 1034.5 | 1024.7 | 1009.3 | 988.2 | 967.2 | 950.4  | 937.7 | 929.4  | 926.6 |
| 12.5° | 1040.1 | 1028.8 | 1006.4 | 978.5 | 950.4 | 928.0  | 913.9 | 906.9  | 904.2 |
| 15°   | 1045.8 | 1034.5 | 1003.7 | 967.2 | 932.1 | 905.5  | 890.1 | 883.1  | 880.4 |
| 17.5° | 1045.8 | 1030.3 | 993.9  | 947.6 | 905.5 | 873.3  | 857.9 | 850.9  | 849.4 |
| 20°   | 1033.1 | 1016.3 | 971.5  | 916.7 | 869.1 | 832.6  | 818.6 | 814.4  | 811.6 |
| 22.5° | 1009.3 | 989.6  | 939.1  | 877.5 | 825.6 | 790.6  | 775.1 | 772.3  | 769.6 |
| 25°   | 978.5  | 958.8  | 901.3  | 835.5 | 780.7 | 745.8  | 733.1 | 730.4  | 728.9 |
| 27.5° | 939.1  | 918.2  | 857.9  | 790.6 | 731.8 | 698.0  | 686.9 | 686.9  | 685.5 |
| 30°   | 888.8  | 864.8  | 806.1  | 738.8 | 679.9 | 649.1  | 640.7 | 640.7  | 639.2 |
| 32.5° | 827.0  | 803.2  | 749.9  | 685.5 | 629.4 | 597.2  | 590.2 | 592.9  | 591.5 |
| 35°   | 755.6  | 735.9  | 686.9  | 623.7 | 574.8 | 545.3  | 542.4 | 545.3  | 545.3 |
| 37.5° | 684.0  | 665.8  | 623.7  | 569.1 | 522.9 | 496.2  | 496.2 | 500.4  | 499.1 |
| 40°   | 609.7  | 595.8  | 556.5  | 508.8 | 471.0 | 452.7  | 450.0 | 454.2  | 455.6 |
| 42.5° | 539.7  | 528.5  | 494.8  | 455.6 | 421.9 | 403.7  | 407.9 | 410.7  | 412.1 |
| 45°   | 476.6  | 465.4  | 438.8  | 398.1 | 374.3 | 361.6  | 361.6 | 365.9  | 364.5 |
| 47.5° | 420.5  | 412.1  | 385.4  | 346.2 | 325.2 | 319.6  | 322.4 | 325.2  | 325.2 |
| 50°   | 371.5  | 358.9  | 333.7  | 302.7 | 287.3 | 280.3  | 283.2 | 284.6  | 284.6 |
| 52.5° | 325.2  | 316.8  | 291.6  | 263.5 | 249.5 | 245.3  | 245.3 | 246.7  | 246.7 |
| 55°   | 287.3  | 277.5  | 255.1  | 227.0 | 215.9 | 210.3  | 206.1 | 204.6  | 207.5 |
| 57.5° | 251.0  | 242.5  | 221.5  | 194.8 | 182.2 | 176.7  | 168.2 | 165.4  | 168.2 |
| 60°   | 218.6  | 211.6  | 190.6  | 165.4 | 152.7 | 141.6  | 131.8 | 126.2  | 128.9 |
| 62.5° | 190.6  | 182.2  | 161.3  | 140.2 | 126.2 | 113.5  | 98.1  | 89.7   | 94.0  |
| 65°   | 162.6  | 155.6  | 134.6  | 113.5 | 99.5  | 84.1   | 65.9  | 60.3   | 60.3  |
| 67.5° | 137.3  | 130.3  | 110.8  | 92.5  | 75.7  | 57.5   | 40.6  | 39.2   | 40.6  |
| 70°   | 113.5  | 106.5  | 89.7   | 71.5  | 53.3  | 35.1   | 23.8  | 23.8   | 23.8  |
| 72.5° | 94.0   | 85.5   | 70.0   | 51.9  | 33.6  | 18.2   | 12.7  | 14.0   | 14.0  |
| 75°   | 72.9   | 65.9   | 51.9   | 35.1  | 19.7  | 8.4    | 7.0   | 7.0    | 7.0   |
| 77.5° | 54.6   | 49.1   | 36.5   | 22.4  | 9.8   | 2.8    | 2.8   | 2.8    | 2.8   |
| 80°   | 37.8   | 32.2   | 23.8   | 14.0  | 5.6   | 2.8    | 2.8   | 2.8    | 2.8   |
| 82.5° | 22.4   | 19.7   | 14.0   | 7.0   | 2.8   | 1.4    | 1.4   | 1.4    | 1.4   |
| 85°   | 11.2   | 9.8    | 5.6    | 2.8   | 1.4   | 1.4    | 1.4   | 1.4    | 1.4   |
| 87.5° | 2.8    | 2.8    | 1.4    | 1.4   | 0.0   | 1.4    | 1.4   | 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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