

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: P582783

Luminaire Tested: **HCC6W50D010MW-HM64560927-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582783  
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: HCC6W50D010MW-HM64560927-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

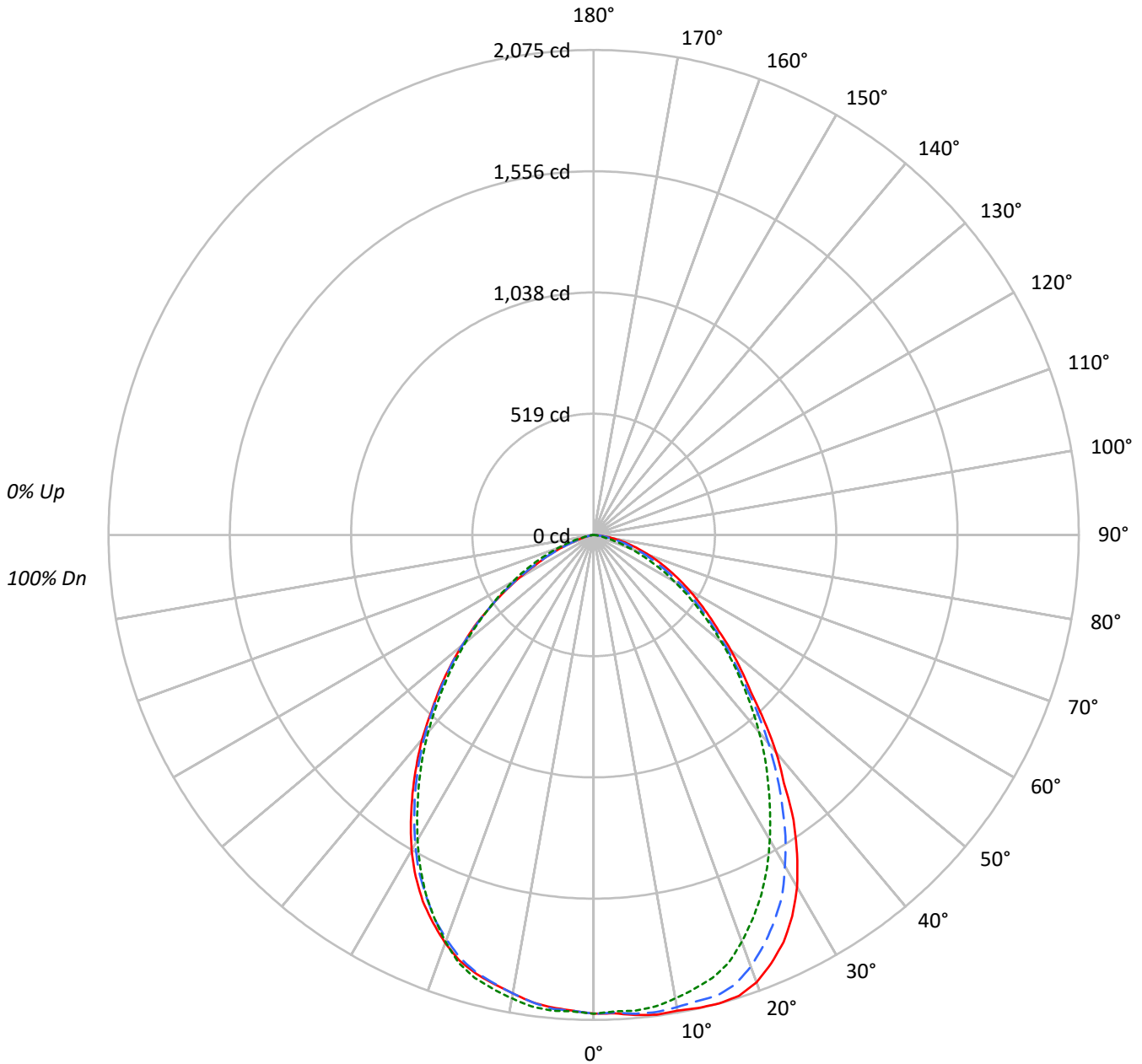
Lumens per Lamp: N/A  
Luminaire Lumens: 4014.1 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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   | 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°  | 112305 | 112305 | 112305 |
| 5°  | 113465 | 112431 | 111699 |
| 10° | 115078 | 112089 | 110892 |
| 15° | 117787 | 111385 | 110318 |
| 20° | 118882 | 108072 | 108387 |
| 25° | 116275 | 102641 | 104583 |
| 30° | 110125 | 95344  | 98566  |
| 35° | 99722  | 87147  | 90380  |
| 40° | 86848  | 78776  | 81660  |
| 45° | 73690  | 69728  | 72232  |
| 50° | 65260  | 60911  | 62505  |
| 55° | 57479  | 52089  | 51831  |
| 60° | 51509  | 43856  | 40337  |
| 65° | 45971  | 35179  | 28914  |
| 70° | 40456  | 25389  | 18080  |
| 75° | 34122  | 15356  | 10230  |
| 80° | 26298  | 6787   | 4262   |
| 85° | 15222  | 1698   | 1698   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 194.4  | 4.8       |
| 10°-20°   | 558.9  | 13.9      |
| 20°-30°   | 807.9  | 20.1      |
| 30°-40°   | 850.0  | 21.2      |
| 40°-50°   | 714.6  | 17.8      |
| 50°-60°   | 501.5  | 12.5      |
| 60°-70°   | 275.9  | 6.9       |
| 70°-80°   | 98.0   | 2.4       |
| 80°-90°   | 12.8   | 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°    | 1561.2 | 38.9      |
| 0°-40°    | 2411.2 | 60.1      |
| 0°-60°    | 3627.4 | 90.4      |
| 0°-90°    | 4014.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4014.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2049 | 2049 | 2049 | 2049 | 2049 |      |
| 5°  | 2062 | 2057 | 2043 | 2035 | 2030 | 197  |
| 15° | 2075 | 2040 | 1963 | 1938 | 1944 | 586  |
| 25° | 1922 | 1826 | 1697 | 1700 | 1729 | 879  |
| 35° | 1490 | 1404 | 1302 | 1329 | 1350 | 924  |
| 45° | 950  | 924  | 899  | 921  | 932  | 746  |
| 55° | 601  | 569  | 545  | 545  | 542  | 541  |
| 65° | 354  | 317  | 271  | 223  | 223  | 353  |
| 75° | 161  | 129  | 72   | 48   | 48   | 173  |
| 85° | 24   | 14   | 3    | 3    | 3    | 33   |
| 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°    | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 |
| 2.5°  | 2048.6 | 2048.6 | 2045.8 | 2045.8 | 2040.5 | 2040.5 | 2037.8 | 2037.8 | 2037.8 |
| 5°    | 2061.9 | 2061.9 | 2056.6 | 2048.6 | 2043.1 | 2035.1 | 2035.1 | 2032.4 | 2029.8 |
| 7.5°  | 2070.1 | 2067.3 | 2059.3 | 2048.6 | 2035.1 | 2021.6 | 2016.3 | 2019.0 | 2016.3 |
| 10°   | 2067.3 | 2061.9 | 2051.2 | 2029.8 | 2013.6 | 1994.8 | 1992.1 | 1989.5 | 1992.1 |
| 12.5° | 2072.7 | 2064.6 | 2043.1 | 2016.3 | 1989.5 | 1968.0 | 1965.3 | 1965.3 | 1968.0 |
| 15°   | 2075.4 | 2067.3 | 2040.5 | 2000.3 | 1962.6 | 1941.1 | 1938.5 | 1941.1 | 1943.8 |
| 17.5° | 2067.3 | 2056.6 | 2016.3 | 1962.6 | 1919.7 | 1898.2 | 1898.2 | 1903.5 | 1909.0 |
| 20°   | 2037.8 | 2021.6 | 1965.3 | 1900.8 | 1852.5 | 1836.5 | 1841.8 | 1852.5 | 1857.9 |
| 22.5° | 1984.1 | 1965.3 | 1900.8 | 1828.4 | 1777.4 | 1763.9 | 1777.4 | 1790.8 | 1796.2 |
| 25°   | 1922.3 | 1900.8 | 1825.7 | 1750.5 | 1696.9 | 1680.7 | 1699.5 | 1721.0 | 1729.0 |
| 27.5° | 1839.2 | 1815.0 | 1745.2 | 1659.2 | 1605.6 | 1597.4 | 1618.9 | 1643.1 | 1648.4 |
| 30°   | 1739.7 | 1712.9 | 1635.1 | 1554.6 | 1506.2 | 1503.5 | 1527.6 | 1549.1 | 1557.1 |
| 32.5° | 1618.9 | 1594.8 | 1527.6 | 1447.1 | 1404.2 | 1404.2 | 1428.3 | 1447.1 | 1455.2 |
| 35°   | 1490.1 | 1463.3 | 1404.2 | 1337.0 | 1302.2 | 1304.9 | 1329.0 | 1342.4 | 1350.5 |
| 37.5° | 1337.0 | 1329.0 | 1283.4 | 1226.9 | 1202.8 | 1208.2 | 1226.9 | 1237.7 | 1245.7 |
| 40°   | 1213.6 | 1192.1 | 1162.6 | 1116.9 | 1100.8 | 1106.1 | 1124.9 | 1135.6 | 1141.1 |
| 42.5° | 1079.3 | 1065.9 | 1041.8 | 1009.5 | 998.8  | 1006.8 | 1023.0 | 1031.0 | 1028.3 |
| 45°   | 950.5  | 947.8  | 923.5  | 904.8  | 899.4  | 910.2  | 920.9  | 929.0  | 931.7  |
| 47.5° | 856.5  | 845.7  | 824.2  | 810.9  | 805.4  | 816.2  | 826.9  | 832.3  | 832.3  |
| 50°   | 765.2  | 754.4  | 732.9  | 719.6  | 714.2  | 724.9  | 732.9  | 738.4  | 732.9  |
| 52.5° | 673.9  | 663.1  | 644.4  | 628.3  | 625.6  | 630.9  | 633.6  | 636.3  | 641.6  |
| 55°   | 601.4  | 590.6  | 569.2  | 550.3  | 545.0  | 547.7  | 545.0  | 545.0  | 542.3  |
| 57.5° | 531.6  | 520.8  | 499.3  | 478.0  | 469.8  | 467.2  | 459.1  | 456.5  | 453.7  |
| 60°   | 469.8  | 456.5  | 435.0  | 410.8  | 400.0  | 389.3  | 375.9  | 367.9  | 367.9  |
| 62.5° | 410.8  | 397.4  | 373.2  | 351.7  | 335.6  | 316.9  | 295.4  | 284.6  | 284.6  |
| 65°   | 354.4  | 343.7  | 316.9  | 292.7  | 271.2  | 246.9  | 222.9  | 217.4  | 222.9  |
| 67.5° | 300.7  | 289.9  | 263.1  | 238.9  | 212.1  | 182.6  | 161.1  | 161.1  | 166.4  |
| 70°   | 252.4  | 241.6  | 217.4  | 187.9  | 158.4  | 128.8  | 112.8  | 112.8  | 112.8  |
| 72.5° | 206.7  | 196.0  | 169.1  | 142.3  | 112.8  | 83.3   | 75.2   | 77.8   | 75.2   |
| 75°   | 161.1  | 153.1  | 128.8  | 99.3   | 72.5   | 51.0   | 48.3   | 45.6   | 48.3   |
| 77.5° | 120.8  | 112.8  | 91.3   | 64.5   | 40.3   | 29.5   | 26.8   | 26.8   | 26.8   |
| 80°   | 83.3   | 75.2   | 59.0   | 37.6   | 21.5   | 13.5   | 13.5   | 13.5   | 13.5   |
| 82.5° | 51.0   | 43.0   | 32.2   | 18.8   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    |
| 85°   | 24.2   | 18.8   | 13.5   | 5.3    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 87.5° | 5.3    | 5.3    | 2.7    | 2.7    | 0.0    | 2.7    | 2.7    | 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



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

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