

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: P582790

Luminaire Tested: **HCC6W50D010BZ-HM64560927-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582790  
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: HCC6W50D010BZ-HM64560927-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

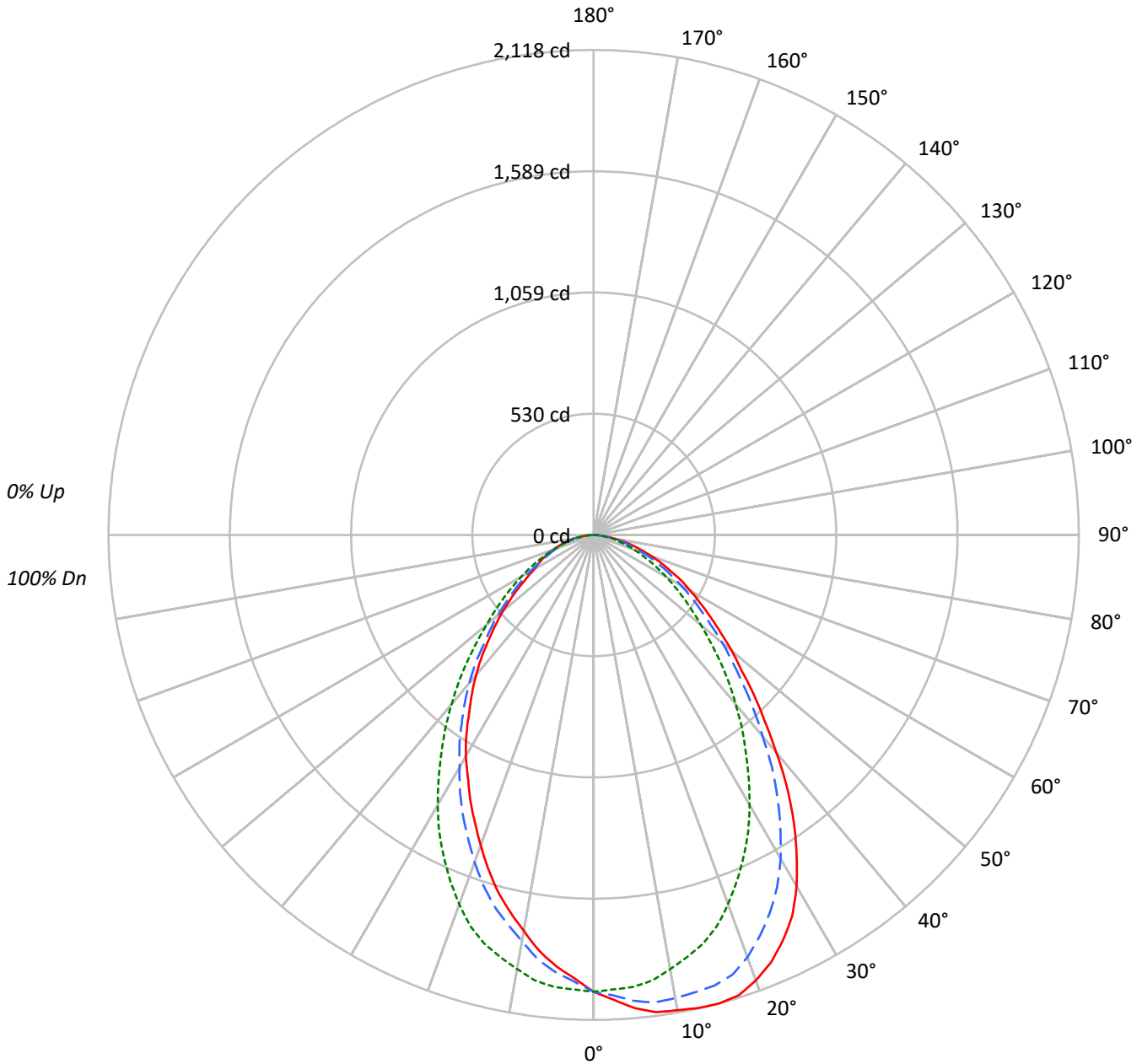
Lumens per Lamp: N/A  
Luminaire Lumens: 3716.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 109355 | 109355 | 109355 |
| 5°  | 114214 | 109041 | 104017 |
| 10° | 117321 | 107157 | 97744  |
| 15° | 120228 | 104836 | 91578  |
| 20° | 120766 | 100085 | 84112  |
| 25° | 118229 | 93707  | 77146  |
| 30° | 112175 | 86165  | 70701  |
| 35° | 101877 | 77437  | 63430  |
| 40° | 88766  | 68979  | 57064  |
| 45° | 76806  | 60363  | 50168  |
| 50° | 67094  | 51981  | 43964  |
| 55° | 59286  | 45685  | 37724  |
| 60° | 53285  | 40041  | 32673  |
| 65° | 47722  | 34816  | 31690  |
| 70° | 42603  | 29701  | 29701  |
| 75° | 36982  | 25015  | 27874  |
| 80° | 29675  | 21183  | 25414  |
| 85° | 20254  | 18555  | 22015  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.5  | 5.0       |
| 10°-20°   | 521.2  | 14.0      |
| 20°-30°   | 726.3  | 19.5      |
| 30°-40°   | 748.4  | 20.1      |
| 40°-50°   | 620.2  | 16.7      |
| 50°-60°   | 445.7  | 12.0      |
| 60°-70°   | 283.9  | 7.6       |
| 70°-80°   | 145.8  | 3.9       |
| 80°-90°   | 37.1   | 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°    | 1435.0 | 38.6      |
| 0°-40°    | 2183.4 | 58.8      |
| 0°-60°    | 3249.3 | 87.4      |
| 0°-90°    | 3716.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3716.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1995 | 1995 | 1995 | 1995 | 1995 |      |
| 5°  | 2076 | 2043 | 1982 | 1917 | 1890 | 199  |
| 15° | 2118 | 2038 | 1847 | 1678 | 1614 | 597  |
| 25° | 1955 | 1820 | 1549 | 1350 | 1275 | 896  |
| 35° | 1522 | 1399 | 1157 | 1004 | 948  | 946  |
| 45° | 991  | 921  | 779  | 679  | 647  | 767  |
| 55° | 620  | 569  | 478  | 424  | 395  | 559  |
| 65° | 368  | 328  | 268  | 234  | 244  | 368  |
| 75° | 175  | 150  | 118  | 124  | 132  | 186  |
| 85° | 32   | 30   | 30   | 32   | 35   | 41   |
| 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°    | 1994.8 | 1994.8 | 1994.8 | 1994.8 | 1994.8 | 1994.8 | 1994.8 | 1994.8 | 1994.8 |
| 2.5°  | 2032.5 | 2024.5 | 2013.7 | 2003.0 | 1986.8 | 1968.0 | 1952.0 | 1946.5 | 1938.5 |
| 5°    | 2075.5 | 2064.7 | 2043.2 | 2016.3 | 1981.5 | 1946.5 | 1917.0 | 1898.2 | 1890.2 |
| 7.5°  | 2102.3 | 2088.8 | 2059.3 | 2013.7 | 1962.7 | 1911.7 | 1868.7 | 1841.9 | 1831.1 |
| 10°   | 2107.6 | 2094.3 | 2054.0 | 1992.2 | 1925.0 | 1855.2 | 1801.6 | 1769.4 | 1755.9 |
| 12.5° | 2115.8 | 2096.9 | 2045.8 | 1973.5 | 1887.5 | 1806.9 | 1739.8 | 1699.6 | 1686.1 |
| 15°   | 2118.4 | 2096.9 | 2037.8 | 1949.2 | 1847.2 | 1750.6 | 1678.1 | 1629.8 | 1613.6 |
| 17.5° | 2107.6 | 2083.5 | 2013.7 | 1906.3 | 1790.9 | 1688.8 | 1602.9 | 1551.8 | 1530.3 |
| 20°   | 2070.1 | 2043.2 | 1962.7 | 1841.9 | 1715.6 | 1608.3 | 1519.7 | 1466.0 | 1441.8 |
| 22.5° | 2021.8 | 1986.8 | 1895.5 | 1766.7 | 1635.1 | 1522.3 | 1433.7 | 1380.0 | 1355.9 |
| 25°   | 1954.6 | 1922.4 | 1820.4 | 1683.4 | 1549.2 | 1431.0 | 1350.5 | 1294.1 | 1275.4 |
| 27.5° | 1876.7 | 1839.2 | 1734.4 | 1597.5 | 1460.5 | 1342.4 | 1264.6 | 1213.6 | 1189.4 |
| 30°   | 1772.1 | 1737.1 | 1632.4 | 1495.5 | 1361.2 | 1251.2 | 1170.6 | 1127.6 | 1116.9 |
| 32.5° | 1648.6 | 1619.0 | 1517.0 | 1388.1 | 1259.2 | 1157.1 | 1090.1 | 1044.5 | 1033.7 |
| 35°   | 1522.3 | 1487.5 | 1398.9 | 1278.0 | 1157.1 | 1065.9 | 1004.2 | 963.9  | 947.8  |
| 37.5° | 1385.4 | 1353.2 | 1278.0 | 1170.6 | 1063.3 | 977.3  | 923.7  | 888.7  | 872.6  |
| 40°   | 1240.4 | 1216.3 | 1146.4 | 1060.5 | 963.9  | 888.7  | 843.1  | 813.5  | 797.4  |
| 42.5° | 1106.1 | 1082.0 | 1033.7 | 953.2  | 872.6  | 805.4  | 765.2  | 738.4  | 724.9  |
| 45°   | 990.7  | 969.2  | 920.9  | 851.1  | 778.6  | 722.2  | 679.3  | 660.5  | 647.1  |
| 47.5° | 875.2  | 864.5  | 821.6  | 757.1  | 690.1  | 641.6  | 612.1  | 590.7  | 580.0  |
| 50°   | 786.7  | 773.2  | 732.9  | 665.8  | 609.5  | 571.8  | 545.0  | 526.3  | 515.5  |
| 52.5° | 695.4  | 681.9  | 644.4  | 588.0  | 542.3  | 507.5  | 480.5  | 464.5  | 453.7  |
| 55°   | 620.3  | 609.5  | 569.2  | 518.2  | 478.0  | 448.4  | 424.2  | 405.4  | 394.7  |
| 57.5° | 550.5  | 539.7  | 502.0  | 453.7  | 418.9  | 392.0  | 370.5  | 354.4  | 341.0  |
| 60°   | 486.0  | 478.0  | 440.3  | 394.7  | 365.2  | 338.4  | 319.5  | 306.1  | 298.0  |
| 62.5° | 429.5  | 413.5  | 381.2  | 341.0  | 314.1  | 292.7  | 273.9  | 265.8  | 271.2  |
| 65°   | 367.9  | 359.7  | 327.6  | 292.7  | 268.4  | 247.1  | 233.6  | 238.9  | 244.3  |
| 67.5° | 316.9  | 306.1  | 279.2  | 247.1  | 225.6  | 209.4  | 201.4  | 212.1  | 214.8  |
| 70°   | 265.8  | 255.1  | 230.9  | 204.1  | 185.3  | 174.6  | 174.6  | 182.6  | 185.3  |
| 72.5° | 217.4  | 209.4  | 187.9  | 166.5  | 153.1  | 145.0  | 150.3  | 155.8  | 158.4  |
| 75°   | 174.6  | 166.5  | 150.3  | 131.6  | 118.1  | 118.1  | 123.5  | 128.8  | 131.6  |
| 77.5° | 134.3  | 128.8  | 112.8  | 99.3   | 94.0   | 94.0   | 99.3   | 102.0  | 104.8  |
| 80°   | 94.0   | 88.6   | 80.5   | 72.5   | 67.1   | 72.5   | 77.8   | 77.8   | 80.5   |
| 82.5° | 61.8   | 59.0   | 53.7   | 48.3   | 48.3   | 51.0   | 53.7   | 56.3   | 56.3   |
| 85°   | 32.2   | 32.2   | 29.5   | 26.8   | 29.5   | 32.2   | 32.2   | 35.0   | 35.0   |
| 87.5° | 10.7   | 10.7   | 10.7   | 10.7   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   |
| 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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