

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: P582647

Luminaire Tested: **HCC6W45D010MW-HM64560927-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010MW-HM64560927-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

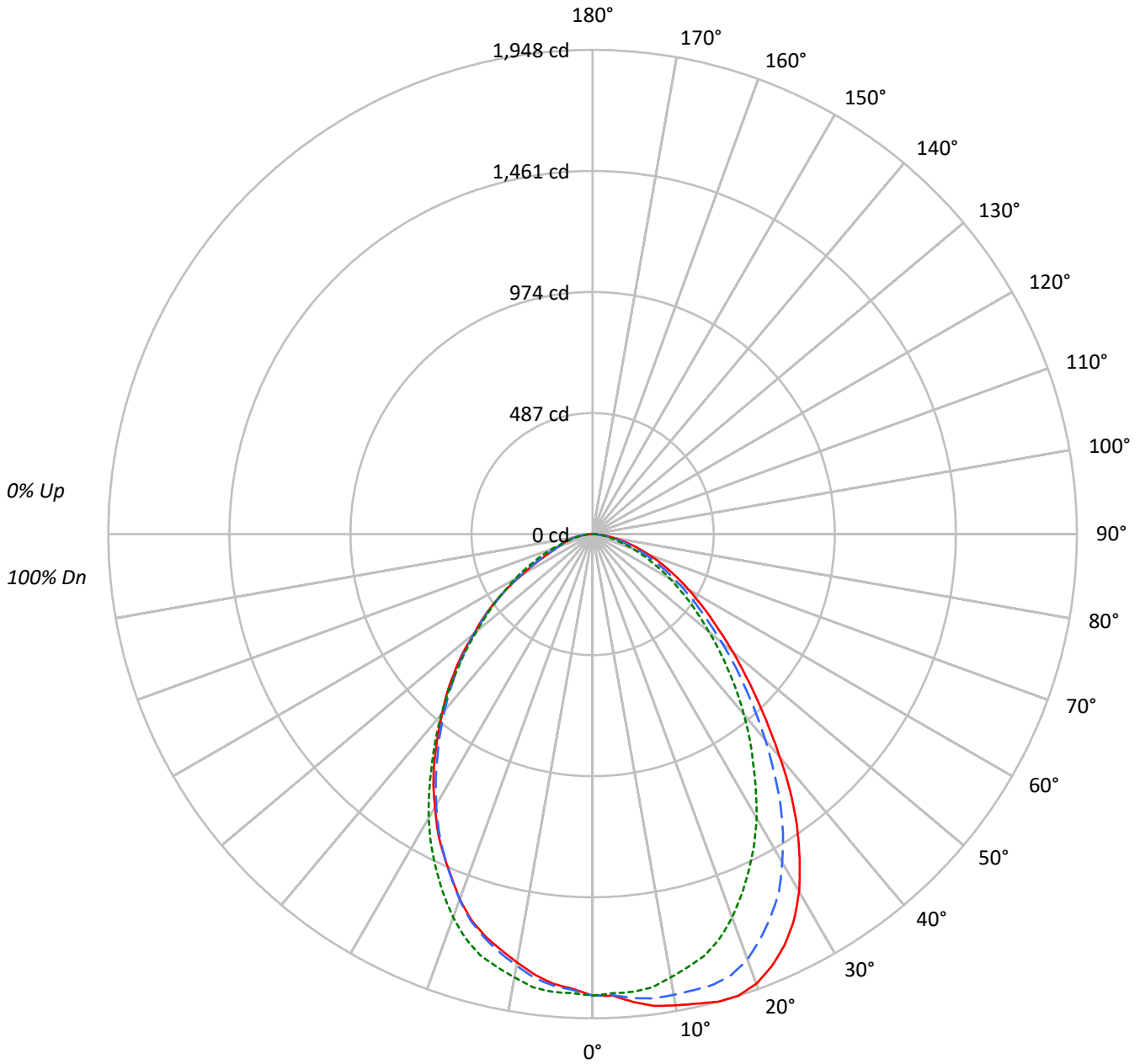
Lumens per Lamp: N/A  
Luminaire Lumens: 3635.6 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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 |    |    |    | 100 |  |  |  |   |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    | 87  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    | 76  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    | 66  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |  |  |  |   |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    | 52  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |    | 46  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    | 42  |  |  |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    | 38  |  |  |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    | 34  |  |  |  |   |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    | 31  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 101774 | 101774 | 101774 |
| 5°  | 103978 | 101744 | 99928  |
| 10° | 107151 | 100800 | 97410  |
| 15° | 110545 | 99461  | 95001  |
| 20° | 112296 | 95727  | 91142  |
| 25° | 110450 | 90054  | 85910  |
| 30° | 105155 | 83481  | 80266  |
| 35° | 95894  | 75362  | 74171  |
| 40° | 83850  | 67698  | 67333  |
| 45° | 72163  | 59572  | 60944  |
| 50° | 62727  | 51913  | 52988  |
| 55° | 54775  | 45571  | 46058  |
| 60° | 48669  | 39481  | 36148  |
| 65° | 43429  | 33233  | 27629  |
| 70° | 38212  | 27248  | 23161  |
| 75° | 32767  | 21499  | 22007  |
| 80° | 26392  | 18405  | 21625  |
| 85° | 17549  | 15913  | 19121  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.8  | 4.8       |
| 10°-20°   | 500.4  | 13.8      |
| 20°-30°   | 714.3  | 19.6      |
| 30°-40°   | 748.2  | 20.6      |
| 40°-50°   | 630.0  | 17.3      |
| 50°-60°   | 448.4  | 12.3      |
| 60°-70°   | 262.5  | 7.2       |
| 70°-80°   | 124.2  | 3.4       |
| 80°-90°   | 32.0   | 0.9       |
| 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°    | 1390.5 | 38.2      |
| 0°-40°    | 2138.7 | 58.8      |
| 0°-60°    | 3217.0 | 88.5      |
| 0°-90°    | 3635.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3635.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1856 | 1856 | 1856 | 1856 | 1856 |      |
| 5°  | 1890 | 1874 | 1849 | 1823 | 1816 | 182  |
| 15° | 1948 | 1877 | 1752 | 1682 | 1674 | 550  |
| 25° | 1826 | 1697 | 1489 | 1418 | 1420 | 836  |
| 35° | 1433 | 1314 | 1126 | 1088 | 1108 | 890  |
| 45° | 931  | 862  | 768  | 771  | 786  | 723  |
| 55° | 573  | 525  | 477  | 477  | 482  | 517  |
| 65° | 335  | 297  | 256  | 216  | 213  | 334  |
| 75° | 155  | 129  | 102  | 99   | 104  | 166  |
| 85° | 28   | 23   | 25   | 30   | 30   | 36   |
| 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°    | 1856.5 | 1856.5 | 1856.5 | 1856.5 | 1856.5 | 1856.5 | 1856.5 | 1856.5 | 1856.5 |
| 2.5°  | 1859.0 | 1859.0 | 1856.5 | 1853.9 | 1848.9 | 1841.3 | 1836.2 | 1831.1 | 1831.1 |
| 5°    | 1889.5 | 1884.3 | 1874.2 | 1861.6 | 1848.9 | 1833.6 | 1823.4 | 1815.9 | 1815.9 |
| 7.5°  | 1914.8 | 1904.6 | 1884.3 | 1861.6 | 1838.7 | 1818.4 | 1800.7 | 1790.5 | 1788.0 |
| 10°   | 1924.9 | 1912.2 | 1881.8 | 1846.3 | 1810.8 | 1783.0 | 1762.7 | 1749.9 | 1749.9 |
| 12.5° | 1935.1 | 1919.8 | 1879.3 | 1828.6 | 1783.0 | 1744.8 | 1724.5 | 1714.5 | 1711.9 |
| 15°   | 1947.8 | 1927.5 | 1876.8 | 1813.3 | 1752.5 | 1709.4 | 1681.5 | 1673.9 | 1673.9 |
| 17.5° | 1947.8 | 1922.4 | 1859.0 | 1780.4 | 1704.3 | 1656.0 | 1630.7 | 1623.1 | 1625.7 |
| 20°   | 1924.9 | 1897.0 | 1821.0 | 1724.5 | 1640.9 | 1590.1 | 1564.8 | 1559.7 | 1562.3 |
| 22.5° | 1881.8 | 1848.9 | 1762.7 | 1658.6 | 1567.4 | 1514.1 | 1491.2 | 1491.2 | 1488.8 |
| 25°   | 1826.0 | 1790.5 | 1696.6 | 1587.7 | 1488.8 | 1435.4 | 1417.7 | 1420.3 | 1420.3 |
| 27.5° | 1752.5 | 1716.9 | 1623.1 | 1506.5 | 1407.6 | 1354.3 | 1341.6 | 1346.7 | 1349.2 |
| 30°   | 1661.2 | 1623.1 | 1524.2 | 1410.1 | 1318.8 | 1265.5 | 1257.9 | 1265.5 | 1268.0 |
| 32.5° | 1549.5 | 1521.7 | 1425.3 | 1308.6 | 1222.4 | 1176.8 | 1174.3 | 1181.8 | 1192.0 |
| 35°   | 1432.9 | 1402.4 | 1313.8 | 1207.3 | 1126.1 | 1088.0 | 1088.0 | 1100.6 | 1108.3 |
| 37.5° | 1306.1 | 1275.6 | 1194.5 | 1105.8 | 1037.3 | 1001.7 | 1006.9 | 1019.6 | 1022.0 |
| 40°   | 1171.7 | 1148.8 | 1080.5 | 1004.3 | 946.0  | 918.1  | 925.7  | 938.4  | 940.9  |
| 42.5° | 1044.9 | 1024.6 | 968.8  | 900.3  | 857.2  | 836.9  | 847.0  | 862.3  | 867.3  |
| 45°   | 930.8  | 907.9  | 862.3  | 804.0  | 768.4  | 758.3  | 771.0  | 781.1  | 786.1  |
| 47.5° | 826.7  | 806.4  | 768.4  | 715.2  | 689.8  | 684.8  | 697.5  | 702.5  | 707.6  |
| 50°   | 735.5  | 715.2  | 677.2  | 629.0  | 608.7  | 608.7  | 618.9  | 623.9  | 621.3  |
| 52.5° | 646.7  | 629.0  | 593.4  | 552.8  | 540.2  | 540.2  | 547.8  | 550.4  | 555.4  |
| 55°   | 573.1  | 555.4  | 525.0  | 486.9  | 476.8  | 471.7  | 476.8  | 476.8  | 481.9  |
| 57.5° | 504.7  | 489.5  | 461.6  | 426.0  | 413.4  | 408.3  | 405.7  | 403.3  | 408.3  |
| 60°   | 443.9  | 431.2  | 400.7  | 370.3  | 360.1  | 347.4  | 337.4  | 327.1  | 329.7  |
| 62.5° | 388.0  | 375.4  | 347.4  | 317.1  | 306.9  | 289.1  | 276.5  | 263.8  | 268.9  |
| 65°   | 334.8  | 322.1  | 296.8  | 271.3  | 256.2  | 235.9  | 215.6  | 208.0  | 213.0  |
| 67.5° | 286.6  | 276.5  | 251.0  | 225.7  | 213.0  | 190.3  | 170.0  | 170.0  | 172.4  |
| 70°   | 238.4  | 228.3  | 208.0  | 185.1  | 170.0  | 149.7  | 142.1  | 144.5  | 144.5  |
| 72.5° | 195.3  | 187.7  | 167.4  | 147.1  | 131.8  | 119.2  | 119.2  | 121.8  | 124.2  |
| 75°   | 154.7  | 149.7  | 129.4  | 111.6  | 101.5  | 93.8   | 98.9   | 101.5  | 103.9  |
| 77.5° | 119.2  | 111.6  | 96.4   | 83.6   | 76.1   | 78.6   | 83.6   | 86.2   | 88.8   |
| 80°   | 83.6   | 81.2   | 68.5   | 60.9   | 58.3   | 60.9   | 65.9   | 68.5   | 68.5   |
| 82.5° | 53.3   | 50.7   | 43.2   | 40.6   | 40.6   | 43.2   | 48.2   | 48.2   | 48.2   |
| 85°   | 27.9   | 25.3   | 22.9   | 22.9   | 25.3   | 27.9   | 30.4   | 30.4   | 30.4   |
| 87.5° | 10.1   | 7.6    | 10.1   | 10.1   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   |
| 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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