

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: P582735

Luminaire Tested: **HCC6W50D010MB-HM64560830-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582735  
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: HCC6W50D010MB-HM64560830-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

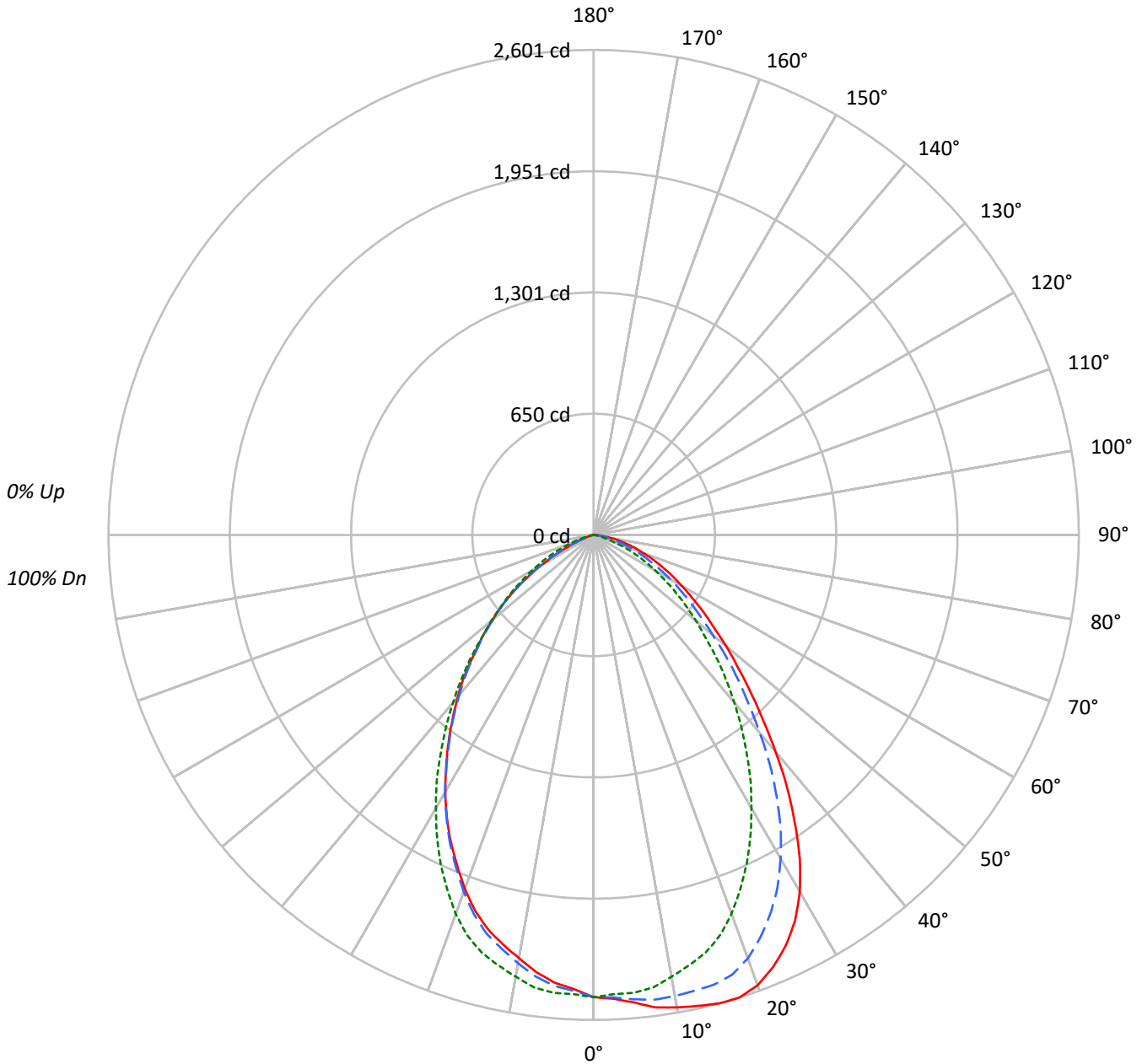
Lumens per Lamp: N/A  
Luminaire Lumens: 4418.2 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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°  | 135916 | 135916 | 135916 |
| 5°  | 138548 | 135664 | 132599 |
| 10° | 143251 | 133938 | 128310 |
| 15° | 147640 | 131607 | 124286 |
| 20° | 149930 | 126122 | 117785 |
| 25° | 147220 | 117485 | 109682 |
| 30° | 139946 | 107054 | 100655 |
| 35° | 125789 | 95680  | 90781  |
| 40° | 108553 | 83850  | 81102  |
| 45° | 91917  | 72186  | 70294  |
| 50° | 78803  | 60970  | 60373  |
| 55° | 68327  | 51324  | 49327  |
| 60° | 59644  | 41663  | 35173  |
| 65° | 52470  | 32105  | 19457  |
| 70° | 45280  | 21238  | 9505   |
| 75° | 38401  | 10336  | 3707   |
| 80° | 29707  | 4388   | 2210   |
| 85° | 17549  | 2201   | 2201   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 234.0  | 5.3       |
| 10°-20°   | 661.6  | 15.0      |
| 20°-30°   | 931.7  | 21.1      |
| 30°-40°   | 951.9  | 21.5      |
| 40°-50°   | 767.5  | 17.4      |
| 50°-60°   | 514.8  | 11.7      |
| 60°-70°   | 260.5  | 5.9       |
| 70°-80°   | 83.3   | 1.9       |
| 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°    | 1827.3 | 41.4      |
| 0°-40°    | 2779.2 | 62.9      |
| 0°-60°    | 4061.6 | 91.9      |
| 0°-90°    | 4418.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4418.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2479 | 2479 | 2479 | 2479 | 2479 |      |
| 5°  | 2518 | 2500 | 2465 | 2427 | 2410 | 242  |
| 15° | 2601 | 2497 | 2319 | 2214 | 2190 | 734  |
| 25° | 2434 | 2242 | 1942 | 1824 | 1813 | 1114 |
| 35° | 1880 | 1709 | 1430 | 1350 | 1356 | 1170 |
| 45° | 1186 | 1092 | 931  | 900  | 907  | 922  |
| 55° | 715  | 635  | 537  | 513  | 516  | 643  |
| 65° | 404  | 335  | 248  | 164  | 150  | 404  |
| 75° | 181  | 129  | 49   | 18   | 18   | 195  |
| 85° | 28   | 14   | 4    | 4    | 4    | 37   |
| 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°    | 2479.3 | 2479.3 | 2479.3 | 2479.3 | 2479.3 | 2479.3 | 2479.3 | 2479.3 | 2479.3 |
| 2.5°  | 2489.8 | 2486.2 | 2482.8 | 2475.8 | 2465.3 | 2454.9 | 2447.9 | 2440.9 | 2437.5 |
| 5°    | 2517.7 | 2510.7 | 2500.2 | 2486.2 | 2465.3 | 2440.9 | 2427.0 | 2413.0 | 2409.6 |
| 7.5°  | 2556.0 | 2542.1 | 2514.1 | 2482.8 | 2447.9 | 2413.0 | 2388.7 | 2374.6 | 2364.2 |
| 10°   | 2573.4 | 2549.1 | 2510.7 | 2458.4 | 2406.1 | 2364.2 | 2332.8 | 2311.9 | 2305.0 |
| 12.5° | 2587.5 | 2559.5 | 2503.7 | 2433.9 | 2364.2 | 2308.4 | 2273.5 | 2256.2 | 2249.1 |
| 15°   | 2601.4 | 2573.4 | 2496.8 | 2406.1 | 2318.9 | 2252.6 | 2214.3 | 2196.9 | 2189.9 |
| 17.5° | 2601.4 | 2563.0 | 2472.3 | 2357.3 | 2252.6 | 2172.4 | 2134.1 | 2116.6 | 2113.2 |
| 20°   | 2570.0 | 2528.2 | 2416.6 | 2280.5 | 2161.9 | 2071.4 | 2036.4 | 2026.0 | 2019.0 |
| 22.5° | 2510.7 | 2461.9 | 2336.4 | 2182.8 | 2053.9 | 1966.7 | 1928.3 | 1921.4 | 1914.4 |
| 25°   | 2433.9 | 2385.1 | 2242.1 | 2078.3 | 1942.3 | 1855.1 | 1823.7 | 1816.7 | 1813.3 |
| 27.5° | 2336.4 | 2284.1 | 2134.1 | 1966.7 | 1820.3 | 1736.5 | 1708.7 | 1708.7 | 1705.1 |
| 30°   | 2210.8 | 2151.5 | 2005.1 | 1837.6 | 1691.2 | 1614.5 | 1593.6 | 1593.6 | 1590.1 |
| 32.5° | 2057.4 | 1998.1 | 1865.6 | 1705.1 | 1565.7 | 1485.5 | 1468.1 | 1475.1 | 1471.5 |
| 35°   | 1879.6 | 1830.7 | 1708.7 | 1551.7 | 1429.7 | 1356.5 | 1349.5 | 1356.5 | 1356.5 |
| 37.5° | 1701.7 | 1656.4 | 1551.7 | 1415.8 | 1300.6 | 1234.4 | 1234.4 | 1244.9 | 1241.3 |
| 40°   | 1516.9 | 1482.0 | 1384.4 | 1265.8 | 1171.7 | 1126.3 | 1119.4 | 1129.9 | 1133.3 |
| 42.5° | 1342.6 | 1314.6 | 1231.0 | 1133.3 | 1049.6 | 1004.3 | 1014.7 | 1021.7 | 1025.2 |
| 45°   | 1185.6 | 1157.7 | 1091.5 | 990.3  | 931.1  | 899.7  | 899.7  | 910.1  | 906.7  |
| 47.5° | 1046.1 | 1025.2 | 959.0  | 861.3  | 809.0  | 795.0  | 802.0  | 809.0  | 809.0  |
| 50°   | 924.0  | 892.7  | 829.9  | 753.2  | 714.9  | 697.4  | 704.3  | 707.9  | 707.9  |
| 52.5° | 809.0  | 788.1  | 725.3  | 655.6  | 620.7  | 610.2  | 610.2  | 613.8  | 613.8  |
| 55°   | 714.9  | 690.4  | 634.7  | 564.9  | 537.0  | 523.1  | 512.6  | 509.1  | 516.1  |
| 57.5° | 624.2  | 603.3  | 550.9  | 484.7  | 453.3  | 439.3  | 418.4  | 411.5  | 418.4  |
| 60°   | 544.0  | 526.5  | 474.3  | 411.5  | 380.0  | 352.2  | 327.7  | 313.8  | 320.8  |
| 62.5° | 474.3  | 453.3  | 401.1  | 348.7  | 313.8  | 282.5  | 244.1  | 223.2  | 233.6  |
| 65°   | 404.5  | 387.0  | 334.8  | 282.5  | 247.5  | 209.3  | 163.9  | 150.0  | 150.0  |
| 67.5° | 341.8  | 324.3  | 275.5  | 230.2  | 188.3  | 143.0  | 101.1  | 97.7   | 101.1  |
| 70°   | 282.5  | 265.0  | 223.2  | 177.9  | 132.5  | 87.2   | 59.3   | 59.3   | 59.3   |
| 72.5° | 233.6  | 212.7  | 174.3  | 129.0  | 83.7   | 45.4   | 31.4   | 34.8   | 34.8   |
| 75°   | 181.3  | 163.9  | 129.0  | 87.2   | 48.8   | 20.9   | 17.5   | 17.5   | 17.5   |
| 77.5° | 136.1  | 122.0  | 90.7   | 55.7   | 24.4   | 7.0    | 7.0    | 7.0    | 7.0    |
| 80°   | 94.1   | 80.2   | 59.3   | 34.8   | 13.9   | 7.0    | 7.0    | 7.0    | 7.0    |
| 82.5° | 55.7   | 48.8   | 34.8   | 17.5   | 7.0    | 3.5    | 3.5    | 3.5    | 3.5    |
| 85°   | 27.9   | 24.4   | 13.9   | 7.0    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 87.5° | 7.0    | 7.0    | 3.5    | 3.5    | 0.0    | 3.5    | 3.5    | 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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