

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: P582728

Luminaire Tested: **HCC6W50D010SL-HM64560830-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010SL-HM64560830-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

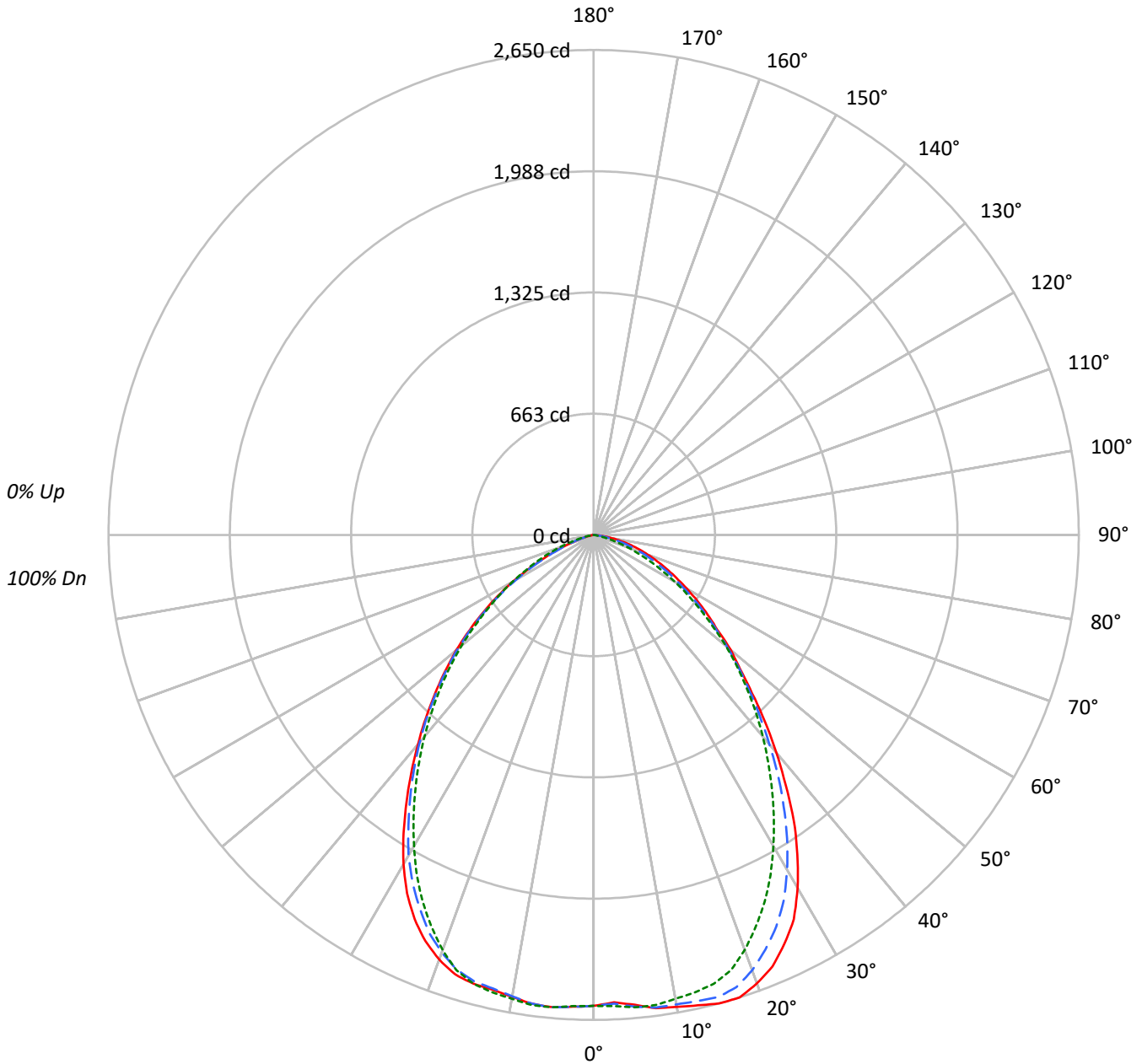
Lumens per Lamp: N/A  
Luminaire Lumens: 5195.8 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |  |  |  |  |   |
| 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  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 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°  | 141085 | 141085 | 141085 |
| 5°  | 141817 | 142587 | 142587 |
| 10° | 145789 | 143262 | 142677 |
| 15° | 150415 | 144087 | 144087 |
| 20° | 152176 | 140788 | 144038 |
| 25° | 149138 | 133738 | 140065 |
| 30° | 141060 | 124279 | 131565 |
| 35° | 127662 | 113655 | 119257 |
| 40° | 111051 | 102821 | 106807 |
| 45° | 94894  | 91653  | 94894  |
| 50° | 83281  | 80304  | 83571  |
| 55° | 72657  | 67658  | 70325  |
| 60° | 64238  | 56213  | 55445  |
| 65° | 57010  | 44337  | 37994  |
| 70° | 50313  | 31303  | 22921  |
| 75° | 42849  | 17728  | 11078  |
| 80° | 31917  | 5525   | 3315   |
| 85° | 17549  | 2201   | 2201   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.9  | 4.8       |
| 10°-20°   | 722.3  | 13.9      |
| 20°-30°   | 1054.9 | 20.3      |
| 30°-40°   | 1106.3 | 21.3      |
| 40°-50°   | 932.1  | 17.9      |
| 50°-60°   | 653.0  | 12.6      |
| 60°-70°   | 350.1  | 6.7       |
| 70°-80°   | 117.4  | 2.3       |
| 80°-90°   | 12.8   | 0.2       |
| 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°    | 2024.1 | 39.0      |
| 0°-40°    | 3130.4 | 60.2      |
| 0°-60°    | 4715.5 | 90.8      |
| 0°-90°    | 5195.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5195.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2574 | 2574 | 2574 | 2574 | 2574 |      |
| 5°  | 2577 | 2588 | 2591 | 2591 | 2591 | 248  |
| 15° | 2650 | 2615 | 2539 | 2525 | 2539 | 748  |
| 25° | 2466 | 2361 | 2211 | 2249 | 2316 | 1129 |
| 35° | 1908 | 1810 | 1698 | 1747 | 1782 | 1184 |
| 45° | 1224 | 1203 | 1182 | 1214 | 1224 | 954  |
| 55° | 760  | 736  | 708  | 722  | 736  | 684  |
| 65° | 440  | 401  | 342  | 282  | 293  | 439  |
| 75° | 202  | 157  | 84   | 52   | 52   | 214  |
| 85° | 28   | 14   | 4    | 4    | 4    | 38   |
| 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°    | 2573.6 | 2573.6 | 2573.6 | 2573.6 | 2573.6 | 2573.6 | 2573.6 | 2573.6 | 2573.6 |
| 2.5°  | 2556.2 | 2556.2 | 2563.1 | 2570.1 | 2577.1 | 2577.1 | 2580.6 | 2584.0 | 2580.6 |
| 5°    | 2577.1 | 2577.1 | 2587.6 | 2591.1 | 2591.1 | 2587.6 | 2591.1 | 2591.1 | 2591.1 |
| 7.5°  | 2608.5 | 2601.5 | 2605.0 | 2598.1 | 2591.1 | 2587.6 | 2584.0 | 2584.0 | 2584.0 |
| 10°   | 2619.0 | 2612.0 | 2605.0 | 2591.1 | 2573.6 | 2563.1 | 2559.7 | 2563.1 | 2563.1 |
| 12.5° | 2632.9 | 2626.0 | 2608.5 | 2580.6 | 2559.7 | 2542.2 | 2538.8 | 2545.8 | 2545.8 |
| 15°   | 2650.3 | 2643.3 | 2615.4 | 2570.1 | 2538.8 | 2521.3 | 2524.7 | 2531.8 | 2538.8 |
| 17.5° | 2650.3 | 2636.3 | 2591.1 | 2531.8 | 2493.4 | 2476.0 | 2489.9 | 2507.4 | 2517.8 |
| 20°   | 2608.5 | 2594.5 | 2531.8 | 2458.5 | 2413.3 | 2402.7 | 2427.2 | 2458.5 | 2469.0 |
| 22.5° | 2552.7 | 2524.7 | 2451.5 | 2364.4 | 2315.6 | 2315.6 | 2350.4 | 2388.8 | 2402.7 |
| 25°   | 2465.6 | 2444.6 | 2360.9 | 2259.7 | 2211.0 | 2207.4 | 2249.3 | 2301.7 | 2315.6 |
| 27.5° | 2367.9 | 2339.9 | 2249.3 | 2144.7 | 2092.4 | 2095.9 | 2141.2 | 2193.5 | 2207.4 |
| 30°   | 2228.4 | 2193.5 | 2113.3 | 2012.2 | 1963.3 | 1977.3 | 2022.6 | 2061.0 | 2078.4 |
| 32.5° | 2071.5 | 2040.1 | 1966.8 | 1872.7 | 1830.8 | 1844.7 | 1883.1 | 1918.1 | 1932.0 |
| 35°   | 1907.6 | 1872.7 | 1809.9 | 1726.3 | 1698.3 | 1712.2 | 1747.2 | 1775.0 | 1782.0 |
| 37.5° | 1722.7 | 1698.3 | 1652.9 | 1586.7 | 1565.8 | 1583.2 | 1611.1 | 1628.6 | 1635.6 |
| 40°   | 1551.8 | 1530.9 | 1492.5 | 1443.8 | 1436.8 | 1450.7 | 1478.6 | 1489.1 | 1492.5 |
| 42.5° | 1384.5 | 1367.0 | 1342.6 | 1307.7 | 1307.7 | 1321.7 | 1346.1 | 1353.1 | 1356.6 |
| 45°   | 1224.0 | 1213.6 | 1203.1 | 1175.2 | 1182.2 | 1199.7 | 1213.6 | 1224.0 | 1224.0 |
| 47.5° | 1084.5 | 1088.1 | 1074.1 | 1053.2 | 1060.2 | 1077.5 | 1088.1 | 1098.4 | 1098.4 |
| 50°   | 976.5  | 965.9  | 952.0  | 931.1  | 941.6  | 955.5  | 969.5  | 976.5  | 979.9  |
| 52.5° | 850.9  | 847.4  | 837.0  | 812.5  | 819.5  | 826.5  | 840.4  | 850.9  | 854.3  |
| 55°   | 760.2  | 749.8  | 735.8  | 707.9  | 707.9  | 714.9  | 721.8  | 728.8  | 735.8  |
| 57.5° | 673.1  | 662.5  | 641.6  | 610.2  | 606.8  | 606.8  | 603.3  | 610.2  | 620.7  |
| 60°   | 585.9  | 582.4  | 550.9  | 523.1  | 512.7  | 502.2  | 488.2  | 491.7  | 505.7  |
| 62.5° | 509.1  | 502.2  | 474.3  | 439.5  | 418.4  | 401.1  | 383.6  | 380.2  | 394.1  |
| 65°   | 439.5  | 432.5  | 401.1  | 366.1  | 341.8  | 310.4  | 282.5  | 282.5  | 292.9  |
| 67.5° | 376.6  | 362.7  | 334.8  | 296.4  | 265.0  | 226.6  | 198.8  | 205.7  | 209.3  |
| 70°   | 313.9  | 303.4  | 272.0  | 233.6  | 195.3  | 157.0  | 139.5  | 143.0  | 143.0  |
| 72.5° | 258.0  | 244.1  | 212.7  | 174.3  | 136.1  | 101.1  | 94.1   | 90.7   | 90.7   |
| 75°   | 202.3  | 188.4  | 157.0  | 118.6  | 83.7   | 59.3   | 52.3   | 52.3   | 52.3   |
| 77.5° | 146.4  | 136.1  | 108.1  | 73.2   | 45.4   | 27.9   | 24.4   | 20.9   | 20.9   |
| 80°   | 101.1  | 90.7   | 66.3   | 38.4   | 17.5   | 10.5   | 10.5   | 10.5   | 10.5   |
| 82.5° | 59.3   | 48.8   | 31.4   | 17.5   | 7.0    | 3.5    | 3.5    | 3.5    | 3.5    |
| 85°   | 27.9   | 20.9   | 13.9   | 7.0    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 87.5° | 3.5    | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 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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