

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: P582584

Luminaire Tested: **HCC6S45D010MW-HM64560830-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582584  
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: HCC6S45D010MW-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**

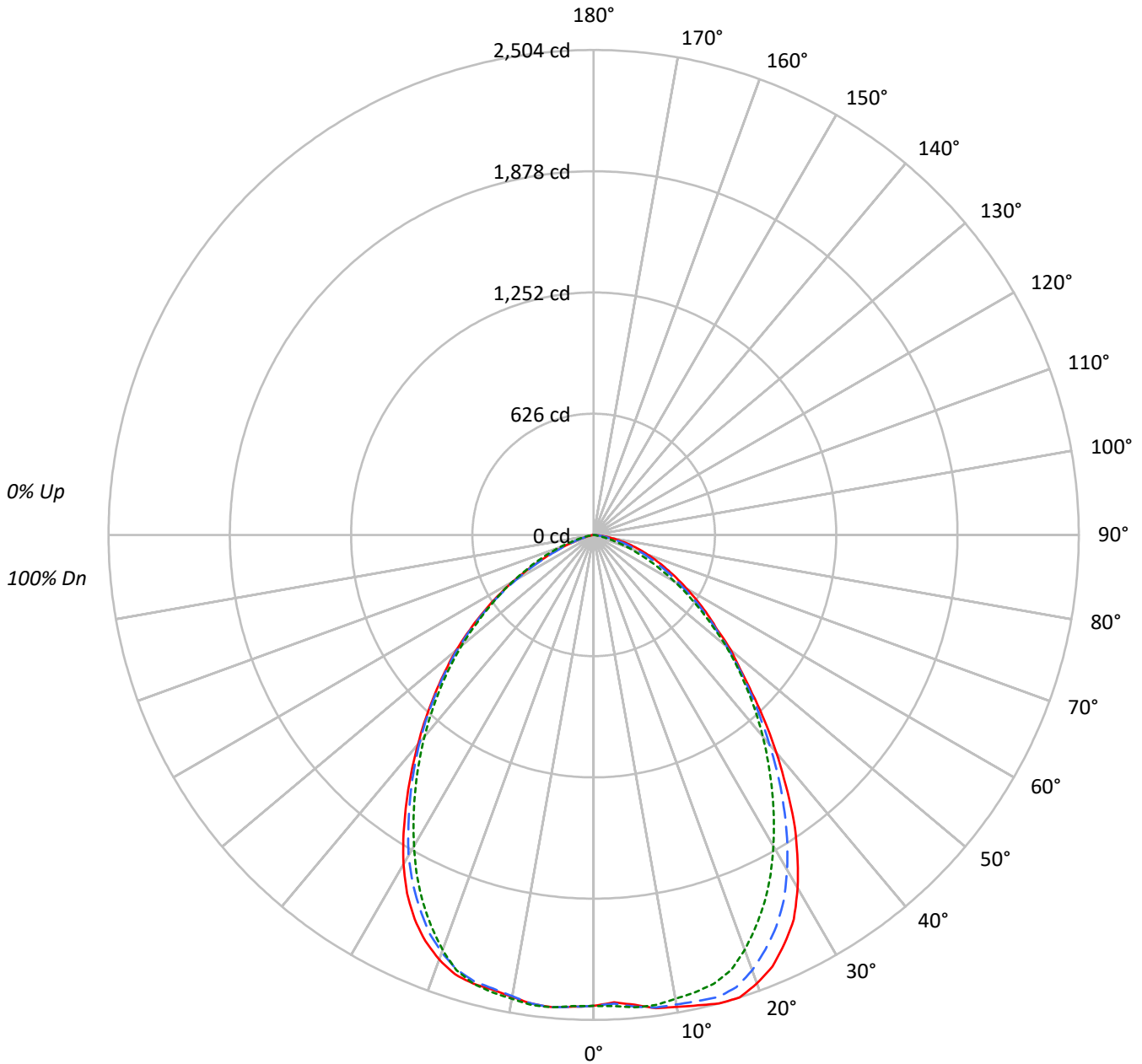
Lumens per Lamp: N/A  
Luminaire Lumens: 4909.6 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 |    |    |    |  |  |  |  |   |
| 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°  | 133317 | 133317 | 133317 |
| 5°  | 134003 | 134729 | 134729 |
| 10° | 137756 | 135374 | 134817 |
| 15° | 142135 | 136147 | 136147 |
| 20° | 143793 | 133023 | 136104 |
| 25° | 140917 | 126364 | 132346 |
| 30° | 133293 | 117436 | 124323 |
| 35° | 120622 | 107398 | 112685 |
| 40° | 104939 | 97153  | 100925 |
| 45° | 89668  | 86598  | 89668  |
| 50° | 78693  | 75878  | 78974  |
| 55° | 68652  | 63940  | 66444  |
| 60° | 60686  | 53099  | 52386  |
| 65° | 53858  | 41885  | 35905  |
| 70° | 47524  | 29572  | 21654  |
| 75° | 40477  | 16754  | 10463  |
| 80° | 30181  | 5177   | 3125   |
| 85° | 16605  | 2076   | 2076   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.3  | 4.8       |
| 10°-20°   | 682.5  | 13.9      |
| 20°-30°   | 996.8  | 20.3      |
| 30°-40°   | 1045.4 | 21.3      |
| 40°-50°   | 880.7  | 17.9      |
| 50°-60°   | 617.1  | 12.6      |
| 60°-70°   | 330.8  | 6.7       |
| 70°-80°   | 110.9  | 2.3       |
| 80°-90°   | 12.1   | 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°    | 1912.6 | 39.0      |
| 0°-40°    | 2957.9 | 60.2      |
| 0°-60°    | 4455.7 | 90.8      |
| 0°-90°    | 4909.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4909.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2432 | 2432 | 2432 | 2432 | 2432 |      |
| 5°  | 2435 | 2445 | 2448 | 2448 | 2448 | 234  |
| 15° | 2504 | 2471 | 2399 | 2386 | 2399 | 706  |
| 25° | 2330 | 2231 | 2089 | 2125 | 2188 | 1067 |
| 35° | 1802 | 1710 | 1605 | 1651 | 1684 | 1119 |
| 45° | 1157 | 1137 | 1117 | 1147 | 1157 | 901  |
| 55° | 718  | 695  | 669  | 682  | 695  | 647  |
| 65° | 415  | 379  | 323  | 267  | 277  | 415  |
| 75° | 191  | 148  | 79   | 49   | 49   | 203  |
| 85° | 26   | 13   | 3    | 3    | 3    | 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°    | 2431.9 | 2431.9 | 2431.9 | 2431.9 | 2431.9 | 2431.9 | 2431.9 | 2431.9 | 2431.9 |
| 2.5°  | 2415.3 | 2415.3 | 2421.9 | 2428.6 | 2435.1 | 2435.1 | 2438.4 | 2441.7 | 2438.4 |
| 5°    | 2435.1 | 2435.1 | 2445.0 | 2448.3 | 2448.3 | 2445.0 | 2448.3 | 2448.3 | 2448.3 |
| 7.5°  | 2464.8 | 2458.1 | 2461.5 | 2454.9 | 2448.3 | 2445.0 | 2441.7 | 2441.7 | 2441.7 |
| 10°   | 2474.7 | 2468.1 | 2461.5 | 2448.3 | 2431.9 | 2421.9 | 2418.6 | 2421.9 | 2421.9 |
| 12.5° | 2487.8 | 2481.2 | 2464.8 | 2438.4 | 2418.6 | 2402.2 | 2398.9 | 2405.5 | 2405.5 |
| 15°   | 2504.4 | 2497.8 | 2471.4 | 2428.6 | 2398.9 | 2382.4 | 2385.6 | 2392.3 | 2398.9 |
| 17.5° | 2504.4 | 2491.1 | 2448.3 | 2392.3 | 2356.1 | 2339.5 | 2352.7 | 2369.2 | 2379.1 |
| 20°   | 2464.8 | 2451.6 | 2392.3 | 2323.1 | 2280.2 | 2270.3 | 2293.4 | 2323.1 | 2333.0 |
| 22.5° | 2412.0 | 2385.6 | 2316.4 | 2234.1 | 2188.0 | 2188.0 | 2221.0 | 2257.2 | 2270.3 |
| 25°   | 2329.7 | 2309.9 | 2230.8 | 2135.2 | 2089.1 | 2085.8 | 2125.4 | 2174.9 | 2188.0 |
| 27.5° | 2237.4 | 2211.1 | 2125.4 | 2026.5 | 1977.1 | 1980.4 | 2023.2 | 2072.7 | 2085.8 |
| 30°   | 2105.7 | 2072.7 | 1996.9 | 1901.3 | 1855.2 | 1868.4 | 1911.2 | 1947.4 | 1964.0 |
| 32.5° | 1957.3 | 1927.7 | 1858.5 | 1769.5 | 1729.9 | 1743.2 | 1779.4 | 1812.3 | 1825.5 |
| 35°   | 1802.4 | 1769.5 | 1710.2 | 1631.1 | 1604.8 | 1617.9 | 1650.9 | 1677.3 | 1683.8 |
| 37.5° | 1627.8 | 1604.8 | 1561.8 | 1499.3 | 1479.5 | 1496.0 | 1522.3 | 1538.9 | 1545.4 |
| 40°   | 1466.4 | 1446.5 | 1410.3 | 1364.2 | 1357.6 | 1370.8 | 1397.2 | 1407.0 | 1410.3 |
| 42.5° | 1308.1 | 1291.7 | 1268.6 | 1235.6 | 1235.6 | 1248.9 | 1271.9 | 1278.6 | 1281.9 |
| 45°   | 1156.6 | 1146.7 | 1136.9 | 1110.5 | 1117.0 | 1133.6 | 1146.7 | 1156.6 | 1156.6 |
| 47.5° | 1024.9 | 1028.1 | 1014.9 | 995.2  | 1001.7 | 1018.2 | 1028.1 | 1038.0 | 1038.0 |
| 50°   | 922.7  | 912.7  | 899.6  | 879.8  | 889.7  | 902.9  | 916.0  | 922.7  | 926.0  |
| 52.5° | 804.0  | 800.7  | 790.8  | 767.7  | 774.4  | 781.0  | 794.1  | 804.0  | 807.3  |
| 55°   | 718.3  | 708.5  | 695.2  | 669.0  | 669.0  | 675.5  | 682.1  | 688.7  | 695.2  |
| 57.5° | 636.0  | 626.0  | 606.3  | 576.6  | 573.4  | 573.4  | 570.1  | 576.6  | 586.5  |
| 60°   | 553.5  | 550.3  | 520.6  | 494.3  | 484.3  | 474.5  | 461.3  | 464.6  | 477.8  |
| 62.5° | 481.0  | 474.5  | 448.1  | 415.2  | 395.4  | 379.0  | 362.5  | 359.2  | 372.3  |
| 65°   | 415.2  | 408.6  | 379.0  | 346.0  | 322.9  | 293.2  | 266.9  | 266.9  | 276.8  |
| 67.5° | 355.9  | 342.8  | 316.4  | 280.1  | 250.4  | 214.2  | 187.8  | 194.4  | 197.8  |
| 70°   | 296.5  | 286.7  | 257.0  | 220.8  | 184.5  | 148.3  | 131.8  | 135.1  | 135.1  |
| 72.5° | 243.9  | 230.6  | 201.1  | 164.8  | 128.6  | 95.6   | 88.9   | 85.6   | 85.6   |
| 75°   | 191.1  | 177.9  | 148.3  | 112.0  | 79.1   | 56.1   | 49.4   | 49.4   | 49.4   |
| 77.5° | 138.4  | 128.6  | 102.2  | 69.2   | 42.8   | 26.4   | 23.1   | 19.8   | 19.8   |
| 80°   | 95.6   | 85.6   | 62.6   | 36.2   | 16.4   | 9.9    | 9.9    | 9.9    | 9.9    |
| 82.5° | 56.1   | 46.1   | 29.7   | 16.4   | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 26.4   | 19.8   | 13.1   | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 3.3    | 3.3    | 3.3    | 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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