

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: P582755

Luminaire Tested: **HCC6W50D010SL-HM64560835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582755
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: HCC6W50D010SL-HM64560835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

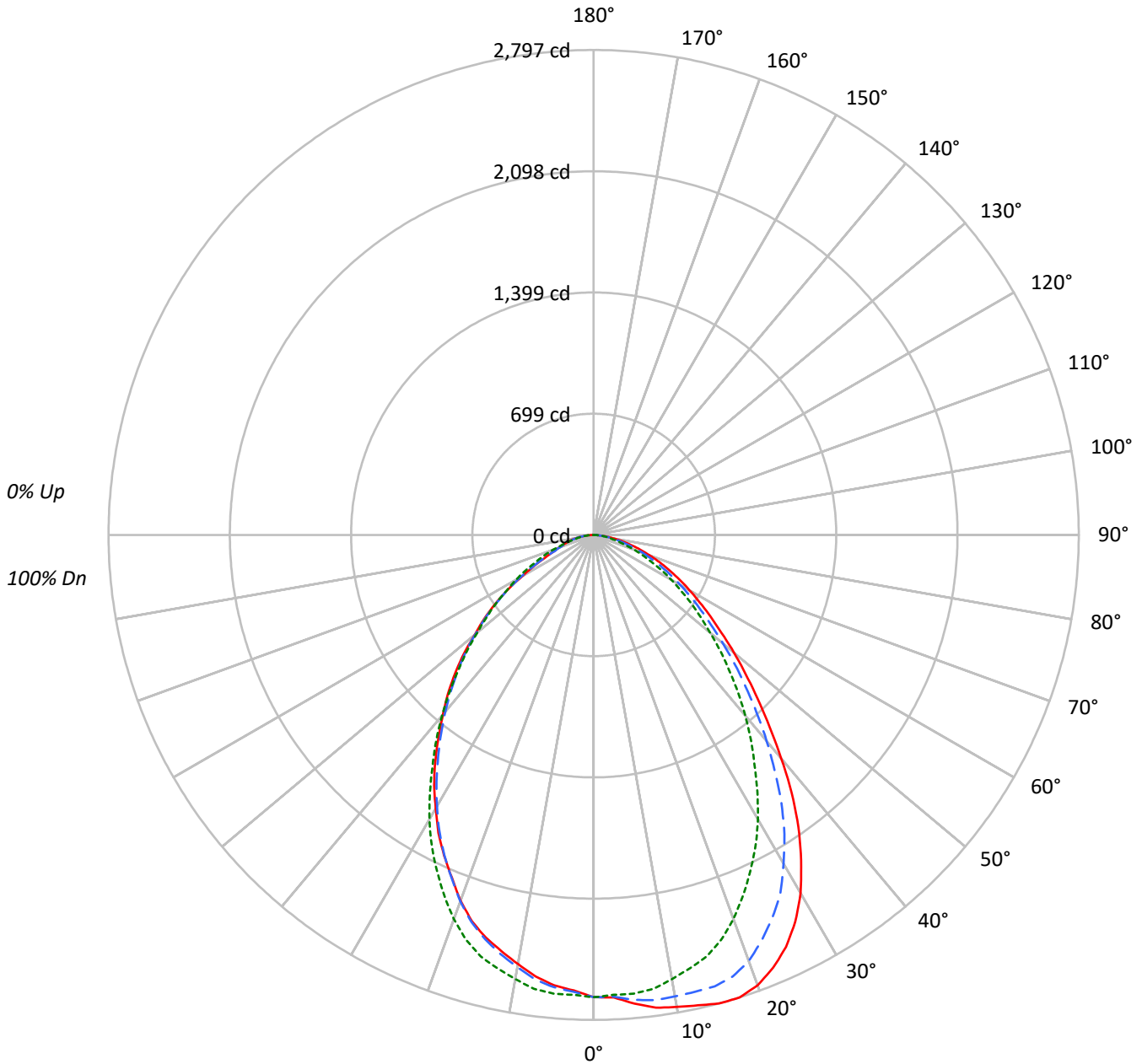
Lumens per Lamp: N/A
Luminaire Lumens: 5221.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): 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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 146156 | 146156 | 146156 |
| 5° | 149323 | 146115 | 143512 |
| 10° | 153888 | 144765 | 139899 |
| 15° | 158758 | 142839 | 136431 |
| 20° | 161277 | 137480 | 130894 |
| 25° | 158622 | 129328 | 123376 |
| 30° | 151017 | 119892 | 115277 |
| 35° | 137721 | 108221 | 106515 |
| 40° | 120418 | 97225 | 96703 |
| 45° | 103639 | 85559 | 87544 |
| 50° | 90087 | 74556 | 76108 |
| 55° | 78678 | 65441 | 66148 |
| 60° | 69885 | 56706 | 51915 |
| 65° | 62367 | 47722 | 39693 |
| 70° | 54881 | 39109 | 33275 |
| 75° | 47043 | 30861 | 31623 |
| 80° | 37947 | 26424 | 31065 |
| 85° | 25160 | 22895 | 27487 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.4 | 4.8 |
| 10°-20° | 718.6 | 13.8 |
| 20°-30° | 1025.9 | 19.6 |
| 30°-40° | 1074.6 | 20.6 |
| 40°-50° | 904.7 | 17.3 |
| 50°-60° | 643.9 | 12.3 |
| 60°-70° | 376.9 | 7.2 |
| 70°-80° | 178.4 | 3.4 |
| 80°-90° | 45.9 | 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° | 1996.9 | 38.2 |
| 0°-40° | 3071.5 | 58.8 |
| 0°-60° | 4620.2 | 88.5 |
| 0°-90° | 5221.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5221.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2666 | 2666 | 2666 | 2666 | 2666 | |
| 5° | 2714 | 2692 | 2655 | 2619 | 2608 | 261 |
| 15° | 2797 | 2695 | 2517 | 2415 | 2404 | 790 |
| 25° | 2622 | 2437 | 2138 | 2036 | 2040 | 1200 |
| 35° | 2058 | 1887 | 1617 | 1563 | 1592 | 1278 |
| 45° | 1337 | 1238 | 1104 | 1107 | 1129 | 1038 |
| 55° | 823 | 754 | 685 | 685 | 692 | 742 |
| 65° | 481 | 426 | 368 | 310 | 306 | 479 |
| 75° | 222 | 186 | 146 | 142 | 149 | 239 |
| 85° | 40 | 33 | 36 | 44 | 44 | 52 |
| 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° | 2666.1 | 2666.1 | 2666.1 | 2666.1 | 2666.1 | 2666.1 | 2666.1 | 2666.1 | 2666.1 |
| 2.5° | 2669.8 | 2669.8 | 2666.1 | 2662.6 | 2655.2 | 2644.3 | 2637.1 | 2629.7 | 2629.7 |
| 5° | 2713.5 | 2706.3 | 2691.6 | 2673.4 | 2655.2 | 2633.4 | 2618.9 | 2607.9 | 2607.9 |
| 7.5° | 2750.0 | 2735.3 | 2706.3 | 2673.4 | 2640.7 | 2611.5 | 2586.0 | 2571.5 | 2567.8 |
| 10° | 2764.5 | 2746.3 | 2702.6 | 2651.6 | 2600.6 | 2560.5 | 2531.4 | 2513.2 | 2513.2 |
| 12.5° | 2779.1 | 2757.2 | 2698.9 | 2626.1 | 2560.5 | 2505.8 | 2476.8 | 2462.1 | 2458.6 |
| 15° | 2797.3 | 2768.1 | 2695.3 | 2604.2 | 2516.8 | 2454.9 | 2414.8 | 2403.9 | 2403.9 |
| 17.5° | 2797.3 | 2760.8 | 2669.8 | 2556.9 | 2447.6 | 2378.4 | 2342.0 | 2331.1 | 2334.7 |
| 20° | 2764.5 | 2724.4 | 2615.2 | 2476.8 | 2356.6 | 2283.7 | 2247.3 | 2240.0 | 2243.7 |
| 22.5° | 2702.6 | 2655.2 | 2531.4 | 2382.1 | 2251.0 | 2174.5 | 2141.6 | 2141.6 | 2138.1 |
| 25° | 2622.4 | 2571.5 | 2436.6 | 2280.0 | 2138.1 | 2061.6 | 2036.0 | 2039.7 | 2039.7 |
| 27.5° | 2516.8 | 2465.8 | 2331.1 | 2163.5 | 2021.5 | 1945.0 | 1926.8 | 1934.0 | 1937.7 |
| 30° | 2385.7 | 2331.1 | 2189.0 | 2025.1 | 1894.0 | 1817.6 | 1806.6 | 1817.6 | 1821.1 |
| 32.5° | 2225.5 | 2185.3 | 2047.0 | 1879.4 | 1755.6 | 1690.0 | 1686.3 | 1697.3 | 1711.9 |
| 35° | 2057.9 | 2014.2 | 1886.8 | 1733.7 | 1617.1 | 1562.6 | 1562.6 | 1580.8 | 1591.6 |
| 37.5° | 1875.8 | 1832.1 | 1715.5 | 1588.1 | 1489.7 | 1438.7 | 1446.0 | 1464.2 | 1467.9 |
| 40° | 1682.7 | 1650.0 | 1551.6 | 1442.4 | 1358.6 | 1318.5 | 1329.5 | 1347.6 | 1351.3 |
| 42.5° | 1500.6 | 1471.5 | 1391.3 | 1293.0 | 1231.1 | 1201.9 | 1216.5 | 1238.4 | 1245.7 |
| 45° | 1336.8 | 1303.9 | 1238.4 | 1154.7 | 1103.6 | 1089.0 | 1107.3 | 1121.8 | 1129.2 |
| 47.5° | 1187.4 | 1158.2 | 1103.6 | 1027.1 | 990.7 | 983.4 | 1001.6 | 1008.9 | 1016.3 |
| 50° | 1056.3 | 1027.1 | 972.4 | 903.3 | 874.2 | 874.2 | 888.7 | 896.0 | 892.4 |
| 52.5° | 928.7 | 903.3 | 852.3 | 794.0 | 775.8 | 775.8 | 786.8 | 790.3 | 797.6 |
| 55° | 823.2 | 797.6 | 754.0 | 699.3 | 684.7 | 677.4 | 684.7 | 684.7 | 692.1 |
| 57.5° | 724.8 | 702.9 | 662.9 | 611.9 | 593.7 | 586.4 | 582.8 | 579.2 | 586.4 |
| 60° | 637.4 | 619.2 | 575.5 | 531.8 | 517.2 | 499.0 | 484.4 | 469.8 | 473.5 |
| 62.5° | 557.3 | 539.0 | 499.0 | 455.3 | 440.7 | 415.2 | 397.1 | 378.7 | 386.1 |
| 65° | 480.8 | 462.6 | 426.1 | 389.7 | 367.9 | 338.7 | 309.5 | 298.7 | 306.0 |
| 67.5° | 411.6 | 397.1 | 360.6 | 324.2 | 306.0 | 273.2 | 244.0 | 244.0 | 247.7 |
| 70° | 342.4 | 327.8 | 298.7 | 265.8 | 244.0 | 214.9 | 204.0 | 207.6 | 207.6 |
| 72.5° | 280.5 | 269.5 | 240.3 | 211.3 | 189.4 | 171.2 | 171.2 | 174.8 | 178.4 |
| 75° | 222.1 | 214.9 | 185.8 | 160.3 | 145.7 | 134.8 | 142.1 | 145.7 | 149.3 |
| 77.5° | 171.2 | 160.3 | 138.4 | 120.2 | 109.2 | 112.9 | 120.2 | 123.9 | 127.4 |
| 80° | 120.2 | 116.6 | 98.4 | 87.4 | 83.7 | 87.4 | 94.7 | 98.4 | 98.4 |
| 82.5° | 76.5 | 72.9 | 61.9 | 58.2 | 58.2 | 61.9 | 69.2 | 69.2 | 69.2 |
| 85° | 40.0 | 36.4 | 32.8 | 32.8 | 36.4 | 40.0 | 43.7 | 43.7 | 43.7 |
| 87.5° | 14.5 | 11.0 | 14.5 | 14.5 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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