

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: P593371

Luminaire Tested: **HCC6S50D010BZ-HM64560950-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593371  
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: HCC6S50D010BZ-HM64560950-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

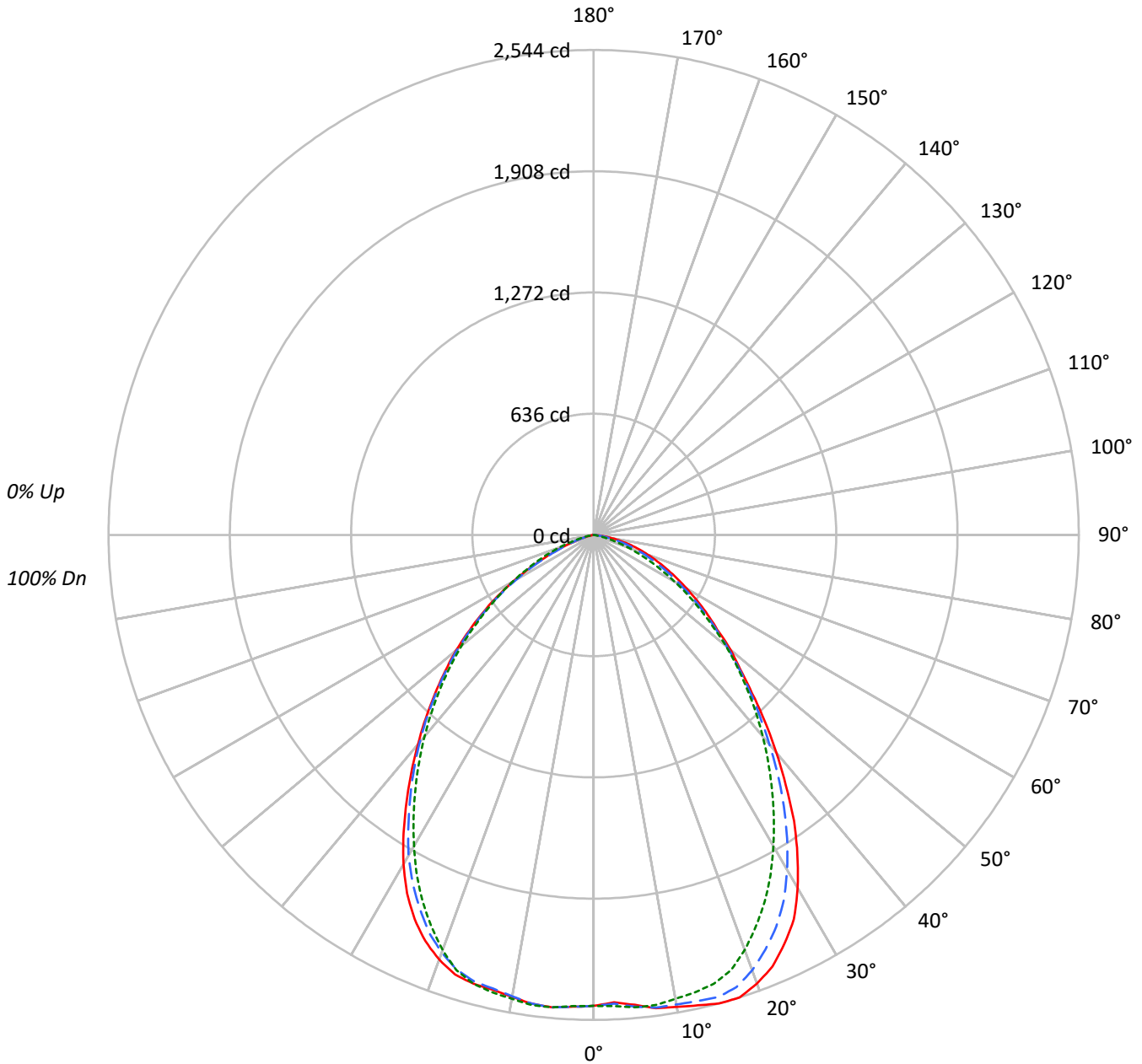
Lumens per Lamp: N/A  
Luminaire Lumens: 4988.2 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 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 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |    | 68  |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |    | 60  |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 135450 | 135450 | 135450 |
| 5°  | 136154 | 136886 | 136886 |
| 10° | 139961 | 137539 | 136977 |
| 15° | 144411 | 138327 | 138327 |
| 20° | 146097 | 135158 | 138285 |
| 25° | 143180 | 128390 | 134469 |
| 30° | 135426 | 119316 | 126311 |
| 35° | 122563 | 109118 | 114492 |
| 40° | 106614 | 98714  | 102542 |
| 45° | 91102  | 87986  | 91102  |
| 50° | 79955  | 77089  | 80236  |
| 55° | 69761  | 64963  | 67524  |
| 60° | 61673  | 53954  | 53230  |
| 65° | 54727  | 42560  | 36476  |
| 70° | 48293  | 30053  | 21991  |
| 75° | 41133  | 17008  | 10633  |
| 80° | 30654  | 5304   | 3157   |
| 85° | 16857  | 2076   | 2076   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.0  | 4.8       |
| 10°-20°   | 693.4  | 13.9      |
| 20°-30°   | 1012.8 | 20.3      |
| 30°-40°   | 1062.2 | 21.3      |
| 40°-50°   | 894.8  | 17.9      |
| 50°-60°   | 627.0  | 12.6      |
| 60°-70°   | 336.1  | 6.7       |
| 70°-80°   | 112.7  | 2.3       |
| 80°-90°   | 12.3   | 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°    | 1943.2 | 39.0      |
| 0°-40°    | 3005.4 | 60.2      |
| 0°-60°    | 4527.2 | 90.8      |
| 0°-90°    | 4988.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4988.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2471 | 2471 | 2471 | 2471 | 2471 |      |
| 5°  | 2474 | 2484 | 2488 | 2488 | 2488 | 238  |
| 15° | 2544 | 2511 | 2437 | 2424 | 2437 | 718  |
| 25° | 2367 | 2267 | 2123 | 2160 | 2223 | 1084 |
| 35° | 1831 | 1738 | 1630 | 1677 | 1711 | 1137 |
| 45° | 1175 | 1155 | 1135 | 1165 | 1175 | 915  |
| 55° | 730  | 706  | 680  | 693  | 706  | 657  |
| 65° | 422  | 385  | 328  | 271  | 281  | 421  |
| 75° | 194  | 151  | 80   | 50   | 50   | 206  |
| 85° | 27   | 13   | 3    | 3    | 3    | 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°    | 2470.8 | 2470.8 | 2470.8 | 2470.8 | 2470.8 | 2470.8 | 2470.8 | 2470.8 | 2470.8 |
| 2.5°  | 2454.1 | 2454.1 | 2460.7 | 2467.5 | 2474.2 | 2474.2 | 2477.5 | 2480.8 | 2477.5 |
| 5°    | 2474.2 | 2474.2 | 2484.2 | 2487.5 | 2487.5 | 2484.2 | 2487.5 | 2487.5 | 2487.5 |
| 7.5°  | 2504.3 | 2497.6 | 2501.0 | 2494.3 | 2487.5 | 2484.2 | 2480.8 | 2480.8 | 2480.8 |
| 10°   | 2514.3 | 2507.6 | 2501.0 | 2487.5 | 2470.8 | 2460.7 | 2457.4 | 2460.7 | 2460.7 |
| 12.5° | 2527.7 | 2521.1 | 2504.3 | 2477.5 | 2457.4 | 2440.7 | 2437.3 | 2444.1 | 2444.1 |
| 15°   | 2544.5 | 2537.7 | 2511.0 | 2467.5 | 2437.3 | 2420.6 | 2424.0 | 2430.6 | 2437.3 |
| 17.5° | 2544.5 | 2531.1 | 2487.5 | 2430.6 | 2393.8 | 2377.1 | 2390.5 | 2407.2 | 2417.3 |
| 20°   | 2504.3 | 2491.0 | 2430.6 | 2360.3 | 2316.8 | 2306.7 | 2330.2 | 2360.3 | 2370.4 |
| 22.5° | 2450.7 | 2424.0 | 2353.6 | 2270.0 | 2223.1 | 2223.1 | 2256.5 | 2293.4 | 2306.7 |
| 25°   | 2367.1 | 2347.0 | 2266.6 | 2169.5 | 2122.6 | 2119.3 | 2159.5 | 2209.7 | 2223.1 |
| 27.5° | 2273.3 | 2246.5 | 2159.5 | 2059.1 | 2008.8 | 2012.2 | 2055.6 | 2105.8 | 2119.3 |
| 30°   | 2139.4 | 2105.8 | 2028.8 | 1931.8 | 1884.9 | 1898.3 | 1941.8 | 1978.6 | 1995.4 |
| 32.5° | 1988.7 | 1958.6 | 1888.3 | 1797.8 | 1757.7 | 1771.1 | 1807.9 | 1841.4 | 1854.8 |
| 35°   | 1831.4 | 1797.8 | 1737.6 | 1657.3 | 1630.5 | 1643.8 | 1677.4 | 1704.2 | 1710.8 |
| 37.5° | 1653.9 | 1630.5 | 1586.9 | 1523.4 | 1503.3 | 1519.9 | 1546.8 | 1563.5 | 1570.3 |
| 40°   | 1489.8 | 1469.8 | 1432.9 | 1386.0 | 1379.4 | 1392.8 | 1419.6 | 1429.6 | 1432.9 |
| 42.5° | 1329.1 | 1312.4 | 1288.9 | 1255.5 | 1255.5 | 1268.9 | 1292.4 | 1299.0 | 1302.4 |
| 45°   | 1175.1 | 1165.1 | 1155.0 | 1128.3 | 1134.9 | 1151.7 | 1165.1 | 1175.1 | 1175.1 |
| 47.5° | 1041.2 | 1044.6 | 1031.1 | 1011.1 | 1017.8 | 1034.6 | 1044.6 | 1054.6 | 1054.6 |
| 50°   | 937.5  | 927.4  | 914.0  | 893.9  | 903.9  | 917.4  | 930.7  | 937.5  | 940.8  |
| 52.5° | 816.9  | 813.6  | 803.6  | 780.1  | 786.8  | 793.5  | 806.9  | 816.9  | 820.2  |
| 55°   | 729.9  | 719.8  | 706.5  | 679.7  | 679.7  | 686.4  | 693.0  | 699.7  | 706.5  |
| 57.5° | 646.1  | 636.1  | 616.0  | 585.9  | 582.6  | 582.6  | 579.2  | 585.9  | 595.9  |
| 60°   | 562.5  | 559.1  | 529.0  | 502.2  | 492.1  | 482.1  | 468.7  | 472.0  | 485.5  |
| 62.5° | 488.8  | 482.1  | 455.3  | 421.9  | 401.8  | 385.0  | 368.2  | 364.9  | 378.3  |
| 65°   | 421.9  | 415.1  | 385.0  | 351.6  | 328.1  | 298.0  | 271.2  | 271.2  | 281.2  |
| 67.5° | 361.6  | 348.2  | 321.4  | 284.6  | 254.5  | 217.7  | 190.8  | 197.6  | 200.9  |
| 70°   | 301.3  | 291.2  | 261.1  | 224.3  | 187.5  | 150.7  | 133.9  | 137.2  | 137.2  |
| 72.5° | 247.8  | 234.3  | 204.2  | 167.3  | 130.6  | 97.1   | 90.3   | 87.0   | 87.0   |
| 75°   | 194.2  | 180.8  | 150.7  | 113.8  | 80.3   | 56.9   | 50.2   | 50.2   | 50.2   |
| 77.5° | 140.7  | 130.6  | 103.8  | 70.3   | 43.6   | 26.8   | 23.4   | 20.1   | 20.1   |
| 80°   | 97.1   | 87.0   | 63.7   | 36.8   | 16.8   | 10.0   | 10.0   | 10.0   | 10.0   |
| 82.5° | 56.9   | 46.9   | 30.1   | 16.8   | 6.7    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 26.8   | 20.1   | 13.3   | 6.7    | 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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