

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: P582753

Luminaire Tested: **HCC6S50D010SL-HM64560835-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582753  
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: HCC6S50D010SL-HM64560835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

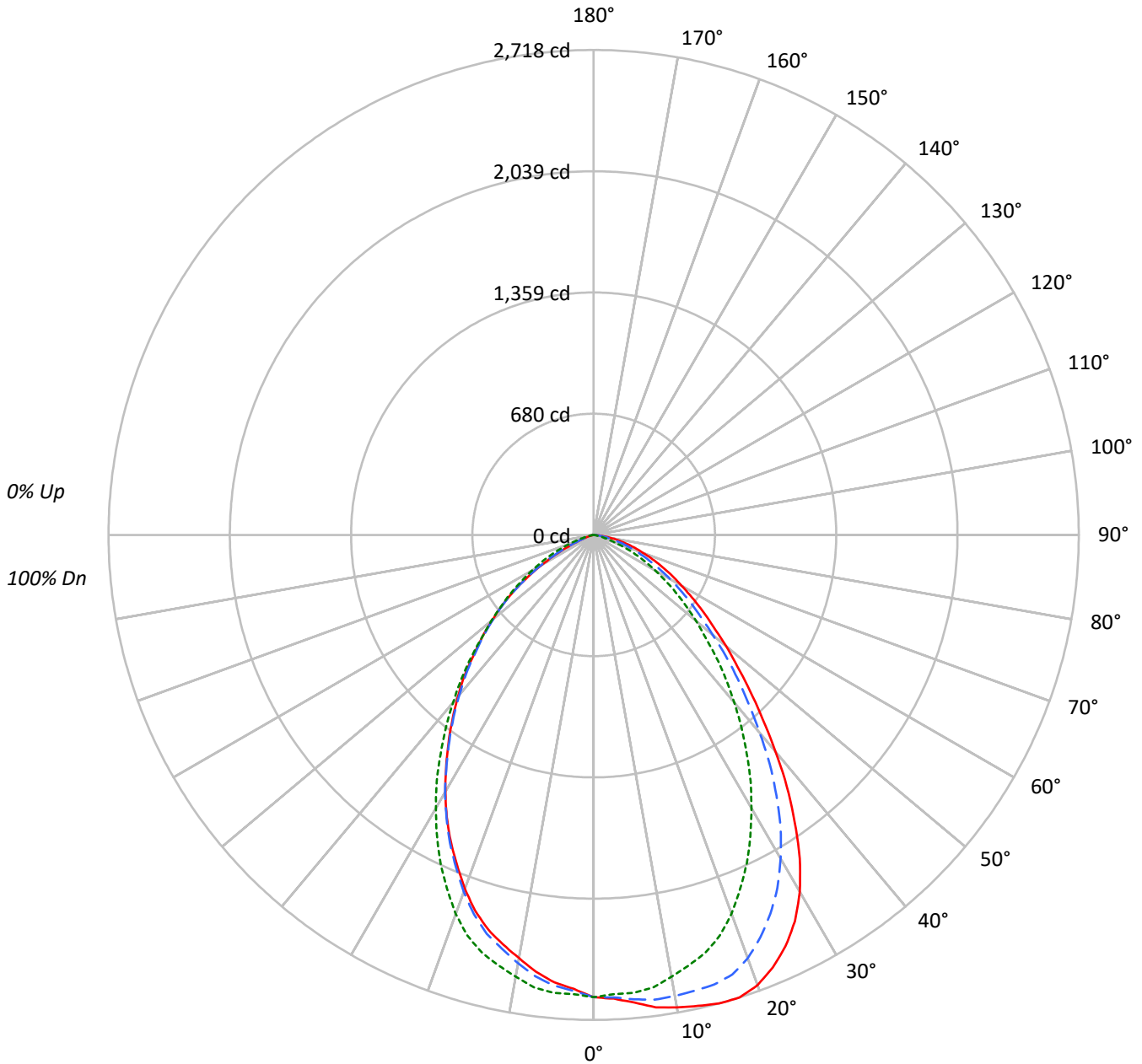
Lumens per Lamp: N/A  
Luminaire Lumens: 4616.5 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  |     |     |    |    |    |    |    |   |  |   |
| 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 |    |    |    |    |    |   |  |   |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |    |    |    |   |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    |    |    |   |  |   |
| 3   | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    |    |    |   |  |   |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  |    |    |    |    |    |   |  |   |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |    |    |    |    |    |   |  |   |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |    |    |    |   |  |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  |    |    |    |    |    |   |  |   |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |    |    |   |  |   |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    |    |    |    |   |  |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    |    |    |    |   |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 142012 | 142012 | 142012 |
| 5°  | 144766 | 141756 | 138548 |
| 10° | 149680 | 139944 | 134066 |
| 15° | 154263 | 137509 | 129865 |
| 20° | 156650 | 131786 | 123071 |
| 25° | 153831 | 122753 | 114605 |
| 30° | 146225 | 111859 | 105168 |
| 35° | 131430 | 99970  | 94850  |
| 40° | 113420 | 87607  | 84744  |
| 45° | 96041  | 75419  | 73442  |
| 50° | 82351  | 63708  | 63085  |
| 55° | 71395  | 53628  | 51535  |
| 60° | 62320  | 43549  | 36751  |
| 65° | 54831  | 33544  | 20326  |
| 70° | 47300  | 22183  | 9922   |
| 75° | 40117  | 10802  | 3855   |
| 80° | 31065  | 4578   | 2305   |
| 85° | 18367  | 2327   | 2327   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 244.5  | 5.3       |
| 10°-20°   | 691.3  | 15.0      |
| 20°-30°   | 973.5  | 21.1      |
| 30°-40°   | 994.7  | 21.5      |
| 40°-50°   | 802.0  | 17.4      |
| 50°-60°   | 537.9  | 11.7      |
| 60°-70°   | 272.2  | 5.9       |
| 70°-80°   | 87.0   | 1.9       |
| 80°-90°   | 13.4   | 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°    | 1909.3 | 41.4      |
| 0°-40°    | 2903.9 | 62.9      |
| 0°-60°    | 4243.8 | 91.9      |
| 0°-90°    | 4616.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4616.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2590 | 2590 | 2590 | 2590 | 2590 |      |
| 5°  | 2631 | 2612 | 2576 | 2536 | 2518 | 253  |
| 15° | 2718 | 2609 | 2423 | 2314 | 2288 | 767  |
| 25° | 2543 | 2343 | 2029 | 1906 | 1895 | 1164 |
| 35° | 1964 | 1785 | 1494 | 1410 | 1417 | 1222 |
| 45° | 1239 | 1140 | 973  | 940  | 947  | 963  |
| 55° | 747  | 663  | 561  | 536  | 539  | 672  |
| 65° | 423  | 350  | 259  | 171  | 157  | 422  |
| 75° | 189  | 135  | 51   | 18   | 18   | 203  |
| 85° | 29   | 14   | 4    | 4    | 4    | 39   |
| 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°    | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 |
| 2.5°  | 2601.5 | 2597.8 | 2594.2 | 2586.9 | 2576.0 | 2565.0 | 2557.8 | 2550.5 | 2546.8 |
| 5°    | 2630.7 | 2623.4 | 2612.4 | 2597.8 | 2576.0 | 2550.5 | 2536.0 | 2521.3 | 2517.7 |
| 7.5°  | 2670.7 | 2656.2 | 2627.0 | 2594.2 | 2557.8 | 2521.3 | 2495.8 | 2481.3 | 2470.3 |
| 10°   | 2688.9 | 2663.4 | 2623.4 | 2568.7 | 2514.0 | 2470.3 | 2437.6 | 2415.6 | 2408.4 |
| 12.5° | 2703.5 | 2674.4 | 2616.0 | 2543.2 | 2470.3 | 2412.1 | 2375.6 | 2357.4 | 2350.1 |
| 15°   | 2718.1 | 2688.9 | 2608.8 | 2514.0 | 2422.9 | 2353.7 | 2313.7 | 2295.4 | 2288.2 |
| 17.5° | 2718.1 | 2678.0 | 2583.3 | 2463.1 | 2353.7 | 2269.9 | 2229.8 | 2211.7 | 2208.0 |
| 20°   | 2685.2 | 2641.5 | 2525.0 | 2382.9 | 2259.0 | 2164.3 | 2127.8 | 2116.9 | 2109.6 |
| 22.5° | 2623.4 | 2572.3 | 2441.1 | 2280.9 | 2146.0 | 2054.9 | 2014.9 | 2007.6 | 2000.3 |
| 25°   | 2543.2 | 2492.1 | 2342.7 | 2171.5 | 2029.4 | 1938.4 | 1905.5 | 1898.3 | 1894.7 |
| 27.5° | 2441.1 | 2386.6 | 2229.8 | 2054.9 | 1901.9 | 1814.5 | 1785.3 | 1785.3 | 1781.7 |
| 30°   | 2310.0 | 2248.0 | 2095.1 | 1920.2 | 1767.1 | 1686.9 | 1665.1 | 1665.1 | 1661.4 |
| 32.5° | 2149.7 | 2087.8 | 1949.2 | 1781.7 | 1635.9 | 1552.2 | 1533.9 | 1541.2 | 1537.5 |
| 35°   | 1963.9 | 1912.9 | 1785.3 | 1621.4 | 1493.8 | 1417.3 | 1410.0 | 1417.3 | 1417.3 |
| 37.5° | 1778.0 | 1730.6 | 1621.4 | 1479.3 | 1359.1 | 1289.8 | 1289.8 | 1300.8 | 1297.1 |
| 40°   | 1584.9 | 1548.5 | 1446.5 | 1322.6 | 1224.2 | 1176.9 | 1169.5 | 1180.5 | 1184.2 |
| 42.5° | 1402.8 | 1373.6 | 1286.2 | 1184.2 | 1096.7 | 1049.3 | 1060.3 | 1067.5 | 1071.2 |
| 45°   | 1238.8 | 1209.7 | 1140.4 | 1034.8 | 972.8  | 940.1  | 940.1  | 950.9  | 947.3  |
| 47.5° | 1093.0 | 1071.2 | 1002.0 | 899.9  | 845.4  | 830.7  | 838.0  | 845.4  | 845.4  |
| 50°   | 965.6  | 932.8  | 867.2  | 787.0  | 747.0  | 728.7  | 736.0  | 739.7  | 739.7  |
| 52.5° | 845.4  | 823.4  | 757.8  | 685.0  | 648.6  | 637.6  | 637.6  | 641.3  | 641.3  |
| 55°   | 747.0  | 721.5  | 663.1  | 590.3  | 561.1  | 546.6  | 535.6  | 531.9  | 539.2  |
| 57.5° | 652.1  | 630.3  | 575.7  | 506.4  | 473.7  | 459.1  | 437.2  | 429.9  | 437.2  |
| 60°   | 568.4  | 550.2  | 495.5  | 429.9  | 397.2  | 368.0  | 342.5  | 328.0  | 335.2  |
| 62.5° | 495.5  | 473.7  | 419.0  | 364.3  | 328.0  | 295.1  | 255.1  | 233.1  | 244.1  |
| 65°   | 422.7  | 404.5  | 349.8  | 295.1  | 258.6  | 218.6  | 171.2  | 156.7  | 156.7  |
| 67.5° | 357.0  | 338.8  | 287.8  | 240.5  | 196.8  | 149.4  | 105.7  | 102.0  | 105.7  |
| 70°   | 295.1  | 276.9  | 233.1  | 185.8  | 138.4  | 91.1   | 61.9   | 61.9   | 61.9   |
| 72.5° | 244.1  | 222.3  | 182.2  | 134.9  | 87.4   | 47.4   | 32.8   | 36.5   | 36.5   |
| 75°   | 189.4  | 171.2  | 134.9  | 91.1   | 51.0   | 21.8   | 18.2   | 18.2   | 18.2   |
| 77.5° | 142.1  | 127.5  | 94.7   | 58.3   | 25.5   | 7.3    | 7.3    | 7.3    | 7.3    |
| 80°   | 98.4   | 83.9   | 61.9   | 36.5   | 14.5   | 7.3    | 7.3    | 7.3    | 7.3    |
| 82.5° | 58.3   | 51.0   | 36.5   | 18.2   | 7.3    | 3.7    | 3.7    | 3.7    | 3.7    |
| 85°   | 29.2   | 25.5   | 14.5   | 7.3    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 87.5° | 7.3    | 7.3    | 3.7    | 3.7    | 0.0    | 3.7    | 3.7    | 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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