

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: P593373

Luminaire Tested: **HCC6S50D010SL-HM64560950-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593373  
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-HM64560950-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

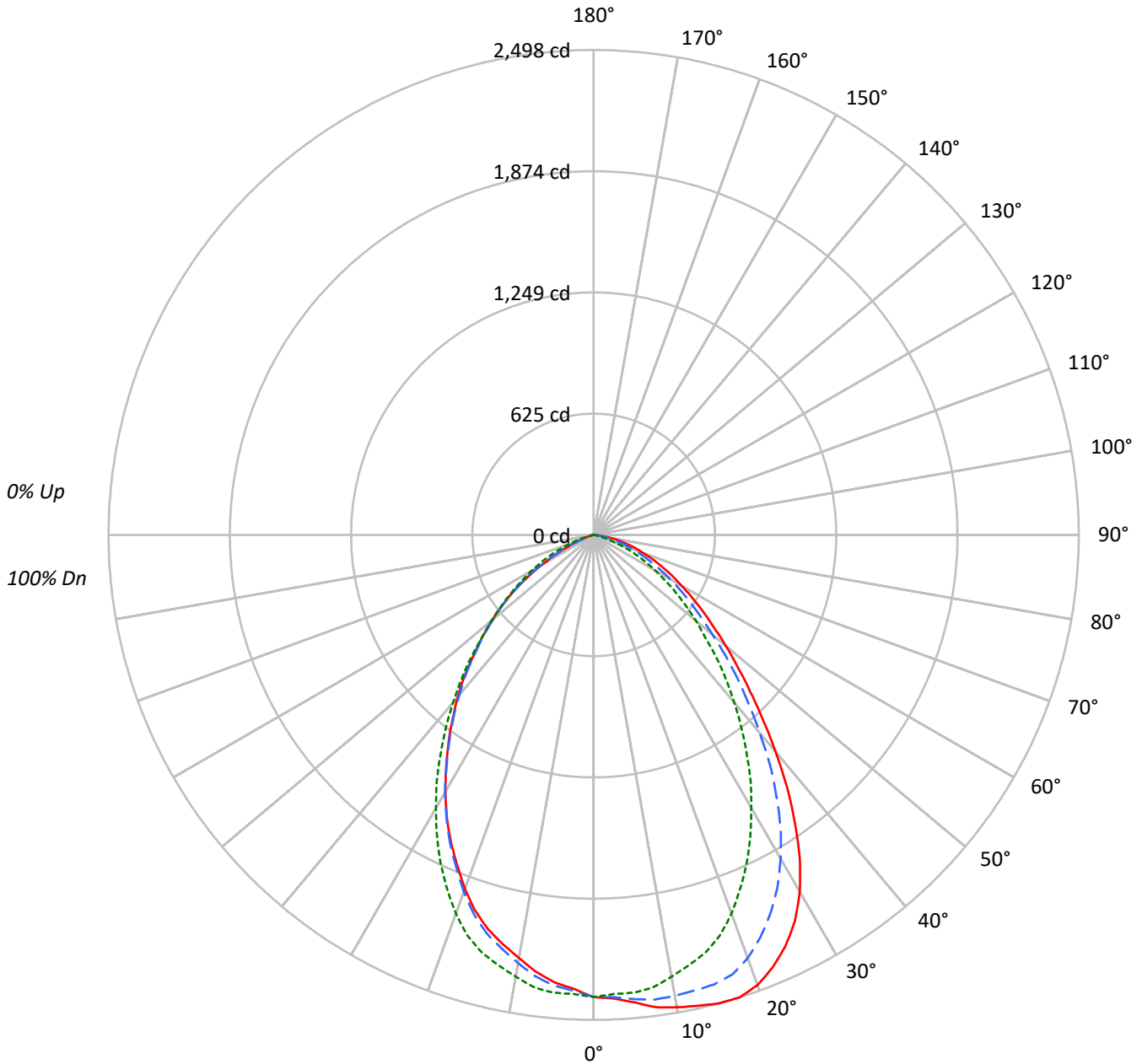
Lumens per Lamp: N/A  
Luminaire Lumens: 4241.7 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 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°  | 130488 | 130488 | 130488 |
| 5°  | 133006 | 130244 | 127300 |
| 10° | 137534 | 128583 | 123177 |
| 15° | 141743 | 126351 | 119320 |
| 20° | 143938 | 121087 | 113083 |
| 25° | 141341 | 112791 | 105296 |
| 30° | 134356 | 102775 | 96635  |
| 35° | 120756 | 91859  | 87154  |
| 40° | 104217 | 80501  | 77867  |
| 45° | 88242  | 69302  | 67480  |
| 50° | 75665  | 58531  | 57951  |
| 55° | 65594  | 49269  | 47348  |
| 60° | 57254  | 40008  | 33769  |
| 65° | 50369  | 30833  | 18679  |
| 70° | 43469  | 20388  | 9120   |
| 75° | 36876  | 9934   | 3558   |
| 80° | 28507  | 4199   | 2115   |
| 85° | 16857  | 2076   | 2076   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 224.6  | 5.3       |
| 10°-20°   | 635.2  | 15.0      |
| 20°-30°   | 894.5  | 21.1      |
| 30°-40°   | 913.9  | 21.5      |
| 40°-50°   | 736.9  | 17.4      |
| 50°-60°   | 494.2  | 11.7      |
| 60°-70°   | 250.1  | 5.9       |
| 70°-80°   | 79.9   | 1.9       |
| 80°-90°   | 12.3   | 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°    | 1754.3 | 41.4      |
| 0°-40°    | 2668.2 | 62.9      |
| 0°-60°    | 3899.3 | 91.9      |
| 0°-90°    | 4241.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4241.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2380 | 2380 | 2380 | 2380 | 2380 |      |
| 5°  | 2417 | 2400 | 2367 | 2330 | 2313 | 233  |
| 15° | 2498 | 2397 | 2226 | 2126 | 2102 | 705  |
| 25° | 2337 | 2153 | 1865 | 1751 | 1741 | 1070 |
| 35° | 1804 | 1640 | 1373 | 1296 | 1302 | 1123 |
| 45° | 1138 | 1048 | 894  | 864  | 870  | 885  |
| 55° | 686  | 609  | 516  | 492  | 495  | 617  |
| 65° | 388  | 321  | 238  | 157  | 144  | 388  |
| 75° | 174  | 124  | 47   | 17   | 17   | 187  |
| 85° | 27   | 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°    | 2380.3 | 2380.3 | 2380.3 | 2380.3 | 2380.3 | 2380.3 | 2380.3 | 2380.3 | 2380.3 |
| 2.5°  | 2390.3 | 2386.9 | 2383.6 | 2376.9 | 2366.8 | 2356.8 | 2350.2 | 2343.5 | 2340.2 |
| 5°    | 2417.0 | 2410.4 | 2400.4 | 2386.9 | 2366.8 | 2343.5 | 2330.0 | 2316.6 | 2313.3 |
| 7.5°  | 2453.9 | 2440.5 | 2413.7 | 2383.6 | 2350.2 | 2316.6 | 2293.3 | 2279.8 | 2269.8 |
| 10°   | 2470.7 | 2447.3 | 2410.4 | 2360.2 | 2309.9 | 2269.8 | 2239.6 | 2219.6 | 2212.8 |
| 12.5° | 2484.0 | 2457.3 | 2403.7 | 2336.7 | 2269.8 | 2216.3 | 2182.7 | 2166.0 | 2159.3 |
| 15°   | 2497.5 | 2470.7 | 2397.0 | 2309.9 | 2226.3 | 2162.6 | 2125.8 | 2109.1 | 2102.4 |
| 17.5° | 2497.5 | 2460.6 | 2373.6 | 2263.2 | 2162.6 | 2085.6 | 2048.8 | 2032.1 | 2028.7 |
| 20°   | 2467.3 | 2427.2 | 2320.0 | 2189.5 | 2075.6 | 1988.6 | 1955.1 | 1945.1 | 1938.4 |
| 22.5° | 2410.4 | 2363.5 | 2243.0 | 2095.7 | 1971.8 | 1888.2 | 1851.3 | 1844.6 | 1837.9 |
| 25°   | 2336.7 | 2289.8 | 2152.6 | 1995.3 | 1864.7 | 1781.1 | 1750.8 | 1744.2 | 1740.8 |
| 27.5° | 2243.0 | 2192.8 | 2048.8 | 1888.2 | 1747.5 | 1667.2 | 1640.4 | 1640.4 | 1637.1 |
| 30°   | 2122.5 | 2065.6 | 1924.9 | 1764.3 | 1623.6 | 1550.1 | 1530.0 | 1530.0 | 1526.6 |
| 32.5° | 1975.2 | 1918.3 | 1791.1 | 1637.1 | 1503.2 | 1426.2 | 1409.4 | 1416.1 | 1412.7 |
| 35°   | 1804.4 | 1757.6 | 1640.4 | 1489.7 | 1372.6 | 1302.3 | 1295.6 | 1302.3 | 1302.3 |
| 37.5° | 1633.7 | 1590.2 | 1489.7 | 1359.2 | 1248.7 | 1185.1 | 1185.1 | 1195.2 | 1191.9 |
| 40°   | 1456.3 | 1422.8 | 1329.1 | 1215.2 | 1124.9 | 1081.3 | 1074.6 | 1084.6 | 1088.1 |
| 42.5° | 1288.9 | 1262.1 | 1181.7 | 1088.1 | 1007.6 | 964.2  | 974.2  | 980.9  | 984.2  |
| 45°   | 1138.2 | 1111.4 | 1047.9 | 950.8  | 893.9  | 863.8  | 863.8  | 873.8  | 870.4  |
| 47.5° | 1004.3 | 984.2  | 920.6  | 826.9  | 776.6  | 763.3  | 770.0  | 776.6  | 776.6  |
| 50°   | 887.2  | 857.1  | 796.8  | 723.1  | 686.3  | 669.5  | 676.2  | 679.5  | 679.5  |
| 52.5° | 776.6  | 756.5  | 696.3  | 629.4  | 595.9  | 585.9  | 585.9  | 589.2  | 589.2  |
| 55°   | 686.3  | 662.9  | 609.3  | 542.3  | 515.5  | 502.2  | 492.1  | 488.8  | 495.4  |
| 57.5° | 599.2  | 579.2  | 529.0  | 465.3  | 435.2  | 421.9  | 401.8  | 395.0  | 401.8  |
| 60°   | 522.2  | 505.5  | 455.3  | 395.0  | 364.9  | 338.1  | 314.7  | 301.3  | 308.0  |
| 62.5° | 455.3  | 435.2  | 385.0  | 334.8  | 301.3  | 271.2  | 234.3  | 214.2  | 224.3  |
| 65°   | 388.3  | 371.7  | 321.4  | 271.2  | 237.7  | 200.9  | 157.3  | 144.0  | 144.0  |
| 67.5° | 328.1  | 311.3  | 264.4  | 221.0  | 180.8  | 137.2  | 97.1   | 93.8   | 97.1   |
| 70°   | 271.2  | 254.4  | 214.2  | 170.8  | 127.2  | 83.7   | 56.9   | 56.9   | 56.9   |
| 72.5° | 224.3  | 204.2  | 167.3  | 123.9  | 80.3   | 43.6   | 30.1   | 33.4   | 33.4   |
| 75°   | 174.1  | 157.3  | 123.9  | 83.7   | 46.9   | 20.1   | 16.8   | 16.8   | 16.8   |
| 77.5° | 130.6  | 117.2  | 87.0   | 53.6   | 23.4   | 6.7    | 6.7    | 6.7    | 6.7    |
| 80°   | 90.3   | 77.0   | 56.9   | 33.4   | 13.3   | 6.7    | 6.7    | 6.7    | 6.7    |
| 82.5° | 53.6   | 46.9   | 33.4   | 16.8   | 6.7    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 26.8   | 23.4   | 13.3   | 6.7    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 6.7    | 6.7    | 3.3    | 3.3    | 0.0    | 3.3    | 3.3    | 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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