

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: P582711

Luminaire Tested: **HCC6S50D010SL-HM64560827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010SL-HM64560827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

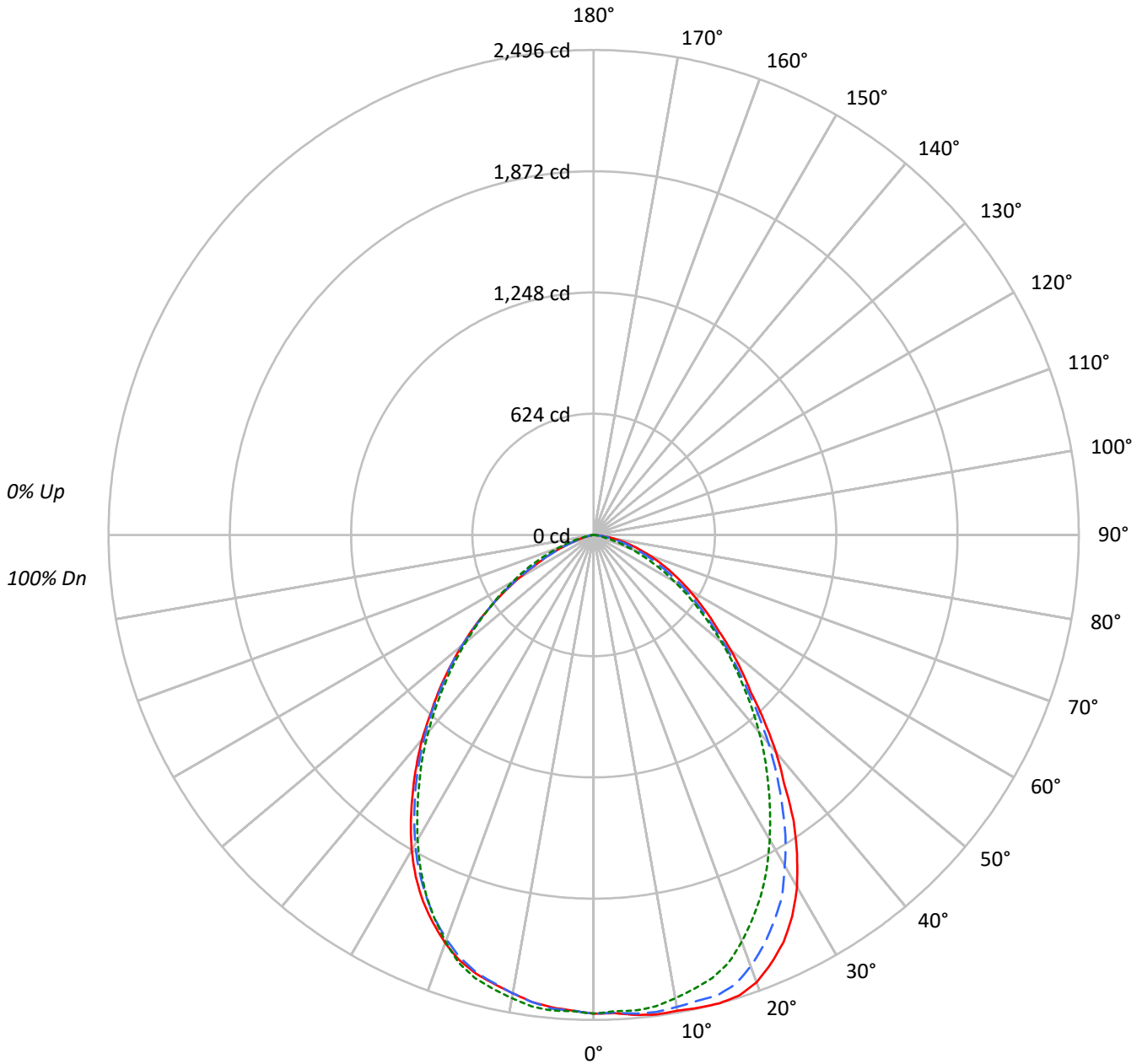
Lumens per Lamp: N/A  
Luminaire Lumens: 4827.4 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 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  | 93  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 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  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 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°  | 135055 | 135055 | 135055 |
| 5°  | 136457 | 135219 | 134327 |
| 10° | 138396 | 134800 | 133364 |
| 15° | 141652 | 133957 | 132674 |
| 20° | 142970 | 129978 | 130345 |
| 25° | 139835 | 123431 | 125777 |
| 30° | 132444 | 114663 | 118544 |
| 35° | 119926 | 104802 | 108690 |
| 40° | 104446 | 94735  | 98198  |
| 45° | 88614  | 83861  | 86862  |
| 50° | 78479  | 73243  | 75179  |
| 55° | 69121  | 62650  | 62344  |
| 60° | 61947  | 52748  | 48505  |
| 65° | 55285  | 42300  | 34764  |
| 70° | 48646  | 30534  | 21734  |
| 75° | 41027  | 18470  | 12306  |
| 80° | 31601  | 8177   | 5114   |
| 85° | 18304  | 2013   | 2013   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.8  | 4.8       |
| 10°-20°   | 672.1  | 13.9      |
| 20°-30°   | 971.6  | 20.1      |
| 30°-40°   | 1022.3 | 21.2      |
| 40°-50°   | 859.4  | 17.8      |
| 50°-60°   | 603.2  | 12.5      |
| 60°-70°   | 331.8  | 6.9       |
| 70°-80°   | 117.8  | 2.4       |
| 80°-90°   | 15.4   | 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°    | 1877.5 | 38.9      |
| 0°-40°    | 2899.8 | 60.1      |
| 0°-60°    | 4362.4 | 90.4      |
| 0°-90°    | 4827.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4827.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2464 | 2464 | 2464 | 2464 | 2464 |      |
| 5°  | 2480 | 2473 | 2457 | 2448 | 2441 | 237  |
| 15° | 2496 | 2454 | 2360 | 2331 | 2338 | 704  |
| 25° | 2312 | 2196 | 2041 | 2044 | 2079 | 1058 |
| 35° | 1792 | 1689 | 1566 | 1598 | 1624 | 1111 |
| 45° | 1143 | 1111 | 1082 | 1108 | 1120 | 897  |
| 55° | 723  | 684  | 656  | 656  | 652  | 651  |
| 65° | 426  | 381  | 326  | 268  | 268  | 424  |
| 75° | 194  | 155  | 87   | 58   | 58   | 208  |
| 85° | 29   | 16   | 3    | 3    | 3    | 40   |
| 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°    | 2463.6 | 2463.6 | 2463.6 | 2463.6 | 2463.6 | 2463.6 | 2463.6 | 2463.6 | 2463.6 |
| 2.5°  | 2463.6 | 2463.6 | 2460.4 | 2460.4 | 2453.9 | 2453.9 | 2450.7 | 2450.7 | 2450.7 |
| 5°    | 2479.7 | 2479.7 | 2473.3 | 2463.6 | 2457.2 | 2447.5 | 2447.5 | 2444.2 | 2441.0 |
| 7.5°  | 2489.4 | 2486.2 | 2476.6 | 2463.6 | 2447.5 | 2431.3 | 2424.8 | 2428.1 | 2424.8 |
| 10°   | 2486.2 | 2479.7 | 2466.9 | 2441.0 | 2421.6 | 2399.1 | 2395.8 | 2392.6 | 2395.8 |
| 12.5° | 2492.6 | 2482.9 | 2457.2 | 2424.8 | 2392.6 | 2366.7 | 2363.5 | 2363.5 | 2366.7 |
| 15°   | 2495.9 | 2486.2 | 2453.9 | 2405.5 | 2360.3 | 2334.5 | 2331.2 | 2334.5 | 2337.7 |
| 17.5° | 2486.2 | 2473.3 | 2424.8 | 2360.3 | 2308.6 | 2282.8 | 2282.8 | 2289.3 | 2295.7 |
| 20°   | 2450.7 | 2431.3 | 2363.5 | 2286.1 | 2228.0 | 2208.6 | 2215.0 | 2228.0 | 2234.3 |
| 22.5° | 2386.1 | 2363.5 | 2286.1 | 2198.9 | 2137.5 | 2121.3 | 2137.5 | 2153.7 | 2160.0 |
| 25°   | 2311.8 | 2286.1 | 2195.6 | 2105.3 | 2040.6 | 2021.3 | 2043.8 | 2069.7 | 2079.4 |
| 27.5° | 2211.8 | 2182.7 | 2098.8 | 1995.4 | 1930.8 | 1921.1 | 1947.0 | 1976.0 | 1982.5 |
| 30°   | 2092.3 | 2060.0 | 1966.4 | 1869.5 | 1811.4 | 1808.1 | 1837.2 | 1863.0 | 1872.7 |
| 32.5° | 1947.0 | 1917.9 | 1837.2 | 1740.3 | 1688.7 | 1688.7 | 1717.8 | 1740.3 | 1750.0 |
| 35°   | 1792.0 | 1759.7 | 1688.7 | 1607.9 | 1566.0 | 1569.2 | 1598.2 | 1614.4 | 1624.1 |
| 37.5° | 1607.9 | 1598.2 | 1543.4 | 1475.5 | 1446.5 | 1453.0 | 1475.5 | 1488.5 | 1498.2 |
| 40°   | 1459.5 | 1433.6 | 1398.1 | 1343.2 | 1323.8 | 1330.3 | 1352.8 | 1365.8 | 1372.2 |
| 42.5° | 1298.0 | 1281.9 | 1252.8 | 1214.1 | 1201.1 | 1210.8 | 1230.2 | 1239.9 | 1236.6 |
| 45°   | 1143.0 | 1139.8 | 1110.7 | 1088.2 | 1081.7 | 1094.6 | 1107.5 | 1117.2 | 1120.4 |
| 47.5° | 1030.0 | 1017.1 | 991.2  | 975.2  | 968.7  | 981.5  | 994.5  | 1000.9 | 1000.9 |
| 50°   | 920.2  | 907.4  | 881.5  | 865.3  | 858.8  | 871.8  | 881.5  | 887.9  | 881.5  |
| 52.5° | 810.4  | 797.5  | 775.0  | 755.6  | 752.3  | 758.8  | 762.0  | 765.3  | 771.7  |
| 55°   | 723.2  | 710.4  | 684.5  | 662.0  | 655.5  | 658.6  | 655.5  | 655.5  | 652.3  |
| 57.5° | 639.3  | 626.4  | 600.5  | 574.8  | 565.0  | 561.8  | 552.1  | 548.9  | 545.6  |
| 60°   | 565.0  | 548.9  | 523.1  | 494.0  | 481.1  | 468.1  | 452.1  | 442.4  | 442.4  |
| 62.5° | 494.0  | 477.8  | 448.8  | 423.0  | 403.5  | 381.0  | 355.1  | 342.3  | 342.3  |
| 65°   | 426.2  | 413.4  | 381.0  | 351.9  | 326.1  | 297.0  | 268.0  | 261.6  | 268.0  |
| 67.5° | 361.6  | 348.7  | 316.4  | 287.3  | 255.1  | 219.5  | 193.7  | 193.7  | 200.2  |
| 70°   | 303.5  | 290.6  | 261.6  | 226.0  | 190.5  | 154.9  | 135.6  | 135.6  | 135.6  |
| 72.5° | 248.6  | 235.7  | 203.4  | 171.1  | 135.6  | 100.1  | 90.5   | 93.7   | 90.5   |
| 75°   | 193.7  | 184.0  | 154.9  | 119.5  | 87.2   | 61.3   | 58.1   | 54.9   | 58.1   |
| 77.5° | 145.3  | 135.6  | 109.8  | 77.5   | 48.4   | 35.5   | 32.2   | 32.2   | 32.2   |
| 80°   | 100.1  | 90.5   | 71.0   | 45.2   | 25.9   | 16.2   | 16.2   | 16.2   | 16.2   |
| 82.5° | 61.3   | 51.6   | 38.7   | 22.6   | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    |
| 85°   | 29.1   | 22.6   | 16.2   | 6.5    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 87.5° | 6.5    | 6.5    | 3.2    | 3.2    | 0.0    | 3.2    | 3.2    | 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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