

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: P582592

Luminaire Tested: **HCC6W45D010SL-HM64560830-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010SL-HM64560830-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

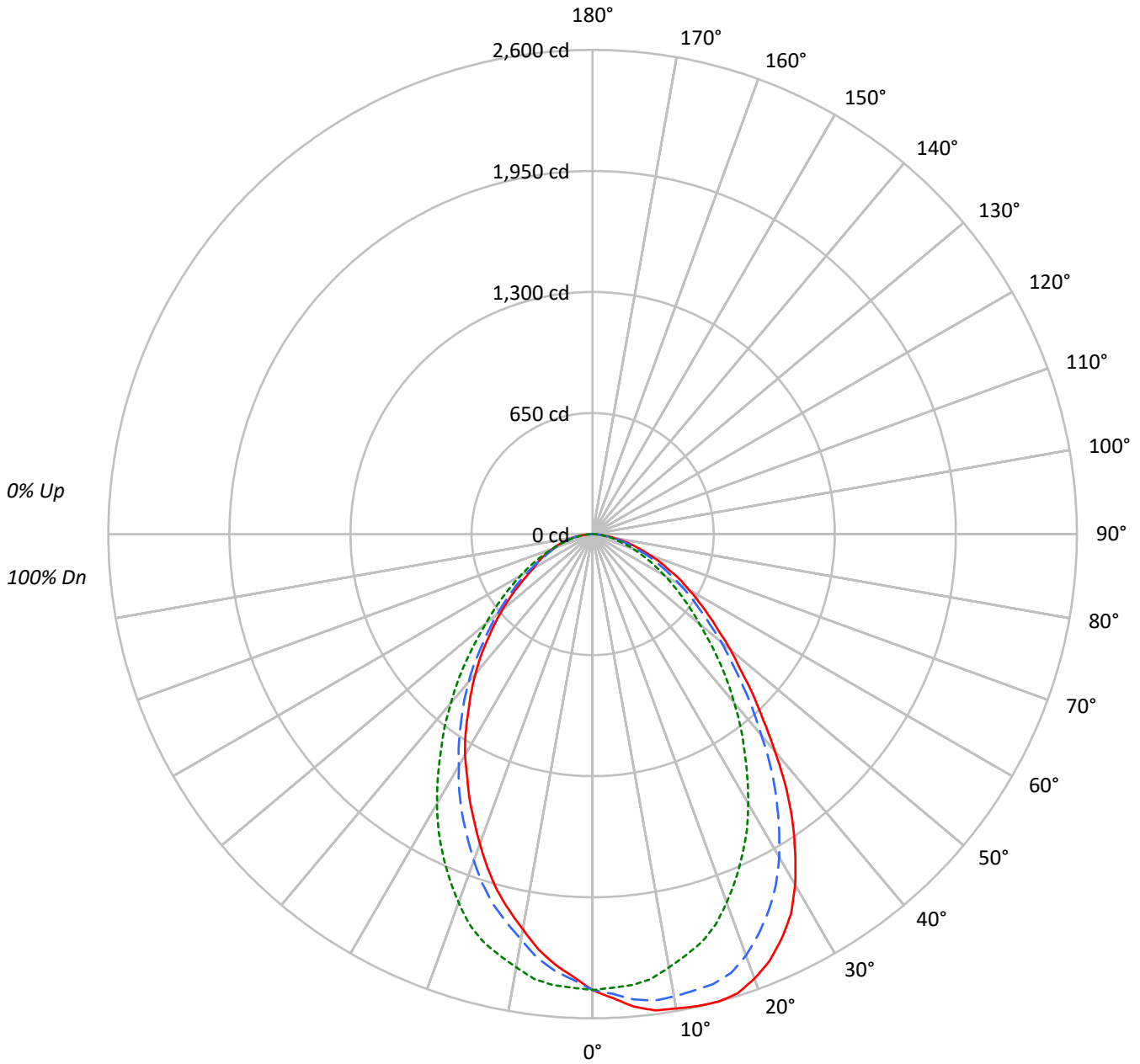
Lumens per Lamp: N/A  
Luminaire Lumens: 4560.2 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 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  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 134211 | 134211 | 134211 |
| 5°  | 140155 | 133810 | 127647 |
| 10° | 143980 | 131505 | 119954 |
| 15° | 147543 | 128656 | 112390 |
| 20° | 148203 | 122826 | 103224 |
| 25° | 145091 | 114999 | 94669  |
| 30° | 137654 | 105744 | 86767  |
| 35° | 125026 | 95044  | 77838  |
| 40° | 108933 | 84651  | 70031  |
| 45° | 94258  | 74077  | 61565  |
| 50° | 82334  | 63785  | 53951  |
| 55° | 72752  | 56055  | 46287  |
| 60° | 65389  | 49130  | 40095  |
| 65° | 58554  | 42741  | 38889  |
| 70° | 52284  | 36432  | 36432  |
| 75° | 45369  | 30712  | 34186  |
| 80° | 36400  | 25982  | 31222  |
| 85° | 24845  | 22769  | 26921  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 230.1  | 5.0       |
| 10°-20°   | 639.6  | 14.0      |
| 20°-30°   | 891.3  | 19.5      |
| 30°-40°   | 918.4  | 20.1      |
| 40°-50°   | 761.1  | 16.7      |
| 50°-60°   | 547.0  | 12.0      |
| 60°-70°   | 348.3  | 7.6       |
| 70°-80°   | 178.9  | 3.9       |
| 80°-90°   | 45.5   | 1.0       |
| 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°    | 1761.0 | 38.6      |
| 0°-40°    | 2679.4 | 58.8      |
| 0°-60°    | 3987.5 | 87.4      |
| 0°-90°    | 4560.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4560.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2448 | 2448 | 2448 | 2448 | 2448 |      |
| 5°  | 2547 | 2507 | 2432 | 2353 | 2320 | 244  |
| 15° | 2600 | 2501 | 2267 | 2059 | 1980 | 733  |
| 25° | 2399 | 2234 | 1901 | 1657 | 1565 | 1099 |
| 35° | 1868 | 1717 | 1420 | 1232 | 1163 | 1160 |
| 45° | 1216 | 1130 | 956  | 834  | 794  | 941  |
| 55° | 761  | 698  | 586  | 521  | 484  | 686  |
| 65° | 451  | 402  | 330  | 287  | 300  | 452  |
| 75° | 214  | 184  | 145  | 152  | 161  | 228  |
| 85° | 40   | 36   | 36   | 40   | 43   | 51   |
| 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°    | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 |
| 2.5°  | 2494.3 | 2484.4 | 2471.2 | 2458.0 | 2438.2 | 2415.2 | 2395.4 | 2388.8 | 2379.0 |
| 5°    | 2546.9 | 2533.8 | 2507.4 | 2474.4 | 2431.6 | 2388.8 | 2352.6 | 2329.5 | 2319.6 |
| 7.5°  | 2579.9 | 2563.5 | 2527.2 | 2471.2 | 2408.5 | 2346.0 | 2293.2 | 2260.3 | 2247.1 |
| 10°   | 2586.5 | 2570.0 | 2520.5 | 2444.8 | 2362.4 | 2276.8 | 2210.9 | 2171.3 | 2154.9 |
| 12.5° | 2596.4 | 2573.3 | 2510.7 | 2421.8 | 2316.3 | 2217.4 | 2135.1 | 2085.7 | 2069.2 |
| 15°   | 2599.7 | 2573.3 | 2500.8 | 2392.1 | 2266.9 | 2148.2 | 2059.3 | 2000.0 | 1980.3 |
| 17.5° | 2586.5 | 2556.8 | 2471.2 | 2339.4 | 2197.7 | 2072.5 | 1967.0 | 1904.5 | 1878.1 |
| 20°   | 2540.4 | 2507.4 | 2408.5 | 2260.3 | 2105.4 | 1973.7 | 1865.0 | 1799.0 | 1769.4 |
| 22.5° | 2481.0 | 2438.2 | 2326.2 | 2168.1 | 2006.7 | 1868.2 | 1759.5 | 1693.6 | 1663.9 |
| 25°   | 2398.7 | 2359.1 | 2234.0 | 2065.9 | 1901.2 | 1756.2 | 1657.3 | 1588.1 | 1565.1 |
| 27.5° | 2303.2 | 2257.0 | 2128.5 | 1960.4 | 1792.5 | 1647.5 | 1551.9 | 1489.2 | 1459.7 |
| 30°   | 2174.6 | 2131.8 | 2003.2 | 1835.3 | 1670.5 | 1535.5 | 1436.6 | 1383.9 | 1370.7 |
| 32.5° | 2023.1 | 1986.8 | 1861.7 | 1703.4 | 1545.3 | 1420.2 | 1337.7 | 1281.7 | 1268.5 |
| 35°   | 1868.2 | 1825.4 | 1716.7 | 1568.4 | 1420.2 | 1308.1 | 1232.2 | 1182.9 | 1163.1 |
| 37.5° | 1700.1 | 1660.6 | 1568.4 | 1436.6 | 1304.7 | 1199.4 | 1133.5 | 1090.7 | 1070.8 |
| 40°   | 1522.2 | 1492.6 | 1406.9 | 1301.4 | 1182.9 | 1090.7 | 1034.6 | 998.3  | 978.6  |
| 42.5° | 1357.5 | 1327.8 | 1268.5 | 1169.7 | 1070.8 | 988.5  | 939.1  | 906.1  | 889.6  |
| 45°   | 1215.8 | 1189.4 | 1130.2 | 1044.4 | 955.5  | 886.3  | 833.7  | 810.5  | 794.1  |
| 47.5° | 1074.1 | 1061.0 | 1008.2 | 929.1  | 846.8  | 787.4  | 751.2  | 724.9  | 711.7  |
| 50°   | 965.4  | 949.0  | 899.5  | 817.1  | 747.9  | 701.8  | 668.8  | 645.9  | 632.6  |
| 52.5° | 853.4  | 836.9  | 790.7  | 721.6  | 665.6  | 622.7  | 589.8  | 570.0  | 556.8  |
| 55°   | 761.2  | 747.9  | 698.5  | 635.9  | 586.5  | 550.3  | 520.6  | 497.6  | 484.3  |
| 57.5° | 675.4  | 662.3  | 616.2  | 556.8  | 514.0  | 481.0  | 454.7  | 434.9  | 418.4  |
| 60°   | 596.4  | 586.5  | 540.4  | 484.3  | 448.1  | 415.1  | 392.1  | 375.6  | 365.7  |
| 62.5° | 527.1  | 507.4  | 467.9  | 418.4  | 385.4  | 359.2  | 336.1  | 326.2  | 332.8  |
| 65°   | 451.4  | 441.5  | 402.0  | 359.2  | 329.5  | 303.1  | 286.7  | 293.2  | 299.8  |
| 67.5° | 388.8  | 375.6  | 342.6  | 303.1  | 276.8  | 257.0  | 247.2  | 260.3  | 263.6  |
| 70°   | 326.2  | 313.1  | 283.4  | 250.4  | 227.3  | 214.2  | 214.2  | 224.0  | 227.3  |
| 72.5° | 266.9  | 257.0  | 230.6  | 204.3  | 187.8  | 177.9  | 184.5  | 191.1  | 194.4  |
| 75°   | 214.2  | 204.3  | 184.5  | 161.4  | 145.0  | 145.0  | 151.6  | 158.1  | 161.4  |
| 77.5° | 164.7  | 158.1  | 138.4  | 121.9  | 115.3  | 115.3  | 121.9  | 125.2  | 128.4  |
| 80°   | 115.3  | 108.7  | 98.9   | 88.9   | 82.3   | 88.9   | 95.6   | 95.6   | 98.9   |
| 82.5° | 75.8   | 72.5   | 65.9   | 59.4   | 59.4   | 62.6   | 65.9   | 69.2   | 69.2   |
| 85°   | 39.5   | 39.5   | 36.2   | 33.0   | 36.2   | 39.5   | 39.5   | 42.8   | 42.8   |
| 87.5° | 13.1   | 13.1   | 13.1   | 13.1   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 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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