

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: P582585

Luminaire Tested: **HCC6W45D010MB-HM64560830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582585  
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: HCC6W45D010MB-HM64560830-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

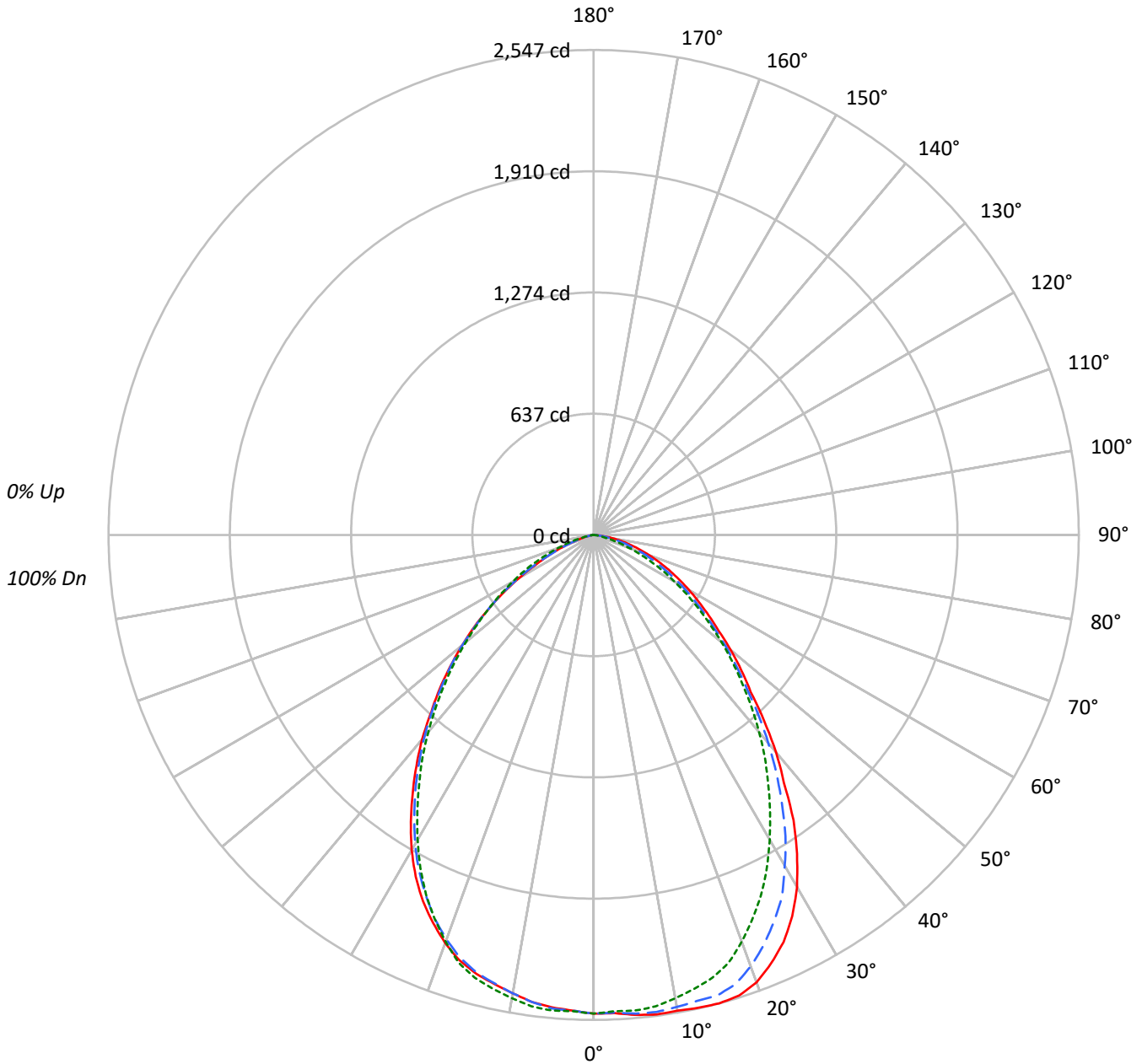
Lumens per Lamp: N/A  
Luminaire Lumens: 4926.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): 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 | 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°  | 137818 | 137818 | 137818 |
| 5°  | 139247 | 137981 | 137073 |
| 10° | 141224 | 137561 | 136092 |
| 15° | 144547 | 136692 | 135381 |
| 20° | 145887 | 132627 | 133012 |
| 25° | 142696 | 125953 | 128342 |
| 30° | 135154 | 117005 | 120974 |
| 35° | 122376 | 106943 | 110912 |
| 40° | 106571 | 96667  | 100209 |
| 45° | 90420  | 85575  | 88637  |
| 50° | 80083  | 74752  | 76714  |
| 55° | 70545  | 63921  | 63615  |
| 60° | 63219  | 53822  | 49492  |
| 65° | 56413  | 43169  | 35464  |
| 70° | 49640  | 31159  | 22183  |
| 75° | 41875  | 18830  | 12581  |
| 80° | 32264  | 8334   | 5177   |
| 85° | 18681  | 2076   | 2076   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.6  | 4.8       |
| 10°-20°   | 685.8  | 13.9      |
| 20°-30°   | 991.4  | 20.1      |
| 30°-40°   | 1043.2 | 21.2      |
| 40°-50°   | 876.9  | 17.8      |
| 50°-60°   | 615.5  | 12.5      |
| 60°-70°   | 338.6  | 6.9       |
| 70°-80°   | 120.2  | 2.4       |
| 80°-90°   | 15.7   | 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°    | 1915.9 | 38.9      |
| 0°-40°    | 2959.0 | 60.1      |
| 0°-60°    | 4451.5 | 90.4      |
| 0°-90°    | 4926.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4926.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2514 | 2514 | 2514 | 2514 | 2514 |      |
| 5°  | 2530 | 2524 | 2507 | 2497 | 2491 | 242  |
| 15° | 2547 | 2504 | 2408 | 2379 | 2385 | 719  |
| 25° | 2359 | 2240 | 2082 | 2086 | 2122 | 1079 |
| 35° | 1829 | 1723 | 1598 | 1631 | 1657 | 1133 |
| 45° | 1166 | 1134 | 1104 | 1130 | 1143 | 915  |
| 55° | 738  | 698  | 669  | 669  | 666  | 664  |
| 65° | 435  | 389  | 333  | 273  | 273  | 433  |
| 75° | 198  | 158  | 89   | 59   | 59   | 212  |
| 85° | 30   | 16   | 3    | 3    | 3    | 41   |
| 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°    | 2514.0 | 2514.0 | 2514.0 | 2514.0 | 2514.0 | 2514.0 | 2514.0 | 2514.0 | 2514.0 |
| 2.5°  | 2514.0 | 2514.0 | 2510.7 | 2510.7 | 2504.1 | 2504.1 | 2500.7 | 2500.7 | 2500.7 |
| 5°    | 2530.4 | 2530.4 | 2523.8 | 2514.0 | 2507.4 | 2497.4 | 2497.4 | 2494.1 | 2490.9 |
| 7.5°  | 2540.2 | 2537.0 | 2527.1 | 2514.0 | 2497.4 | 2481.0 | 2474.4 | 2477.7 | 2474.4 |
| 10°   | 2537.0 | 2530.4 | 2517.3 | 2490.9 | 2471.2 | 2448.1 | 2444.8 | 2441.5 | 2444.8 |
| 12.5° | 2543.7 | 2533.7 | 2507.4 | 2474.4 | 2441.5 | 2415.1 | 2411.8 | 2411.8 | 2415.1 |
| 15°   | 2546.9 | 2537.0 | 2504.1 | 2454.6 | 2408.5 | 2382.1 | 2378.8 | 2382.1 | 2385.4 |
| 17.5° | 2537.0 | 2523.8 | 2474.4 | 2408.5 | 2355.9 | 2329.5 | 2329.5 | 2336.0 | 2342.6 |
| 20°   | 2500.7 | 2481.0 | 2411.8 | 2332.7 | 2273.4 | 2253.7 | 2260.3 | 2273.4 | 2280.0 |
| 22.5° | 2434.9 | 2411.8 | 2332.7 | 2243.7 | 2181.2 | 2164.7 | 2181.2 | 2197.6 | 2204.2 |
| 25°   | 2359.1 | 2332.7 | 2240.4 | 2148.2 | 2082.3 | 2062.6 | 2085.6 | 2112.0 | 2121.8 |
| 27.5° | 2257.0 | 2227.3 | 2141.7 | 2036.2 | 1970.3 | 1960.4 | 1986.8 | 2016.4 | 2023.1 |
| 30°   | 2135.1 | 2102.1 | 2006.5 | 1907.6 | 1848.4 | 1845.1 | 1874.8 | 1901.1 | 1911.1 |
| 32.5° | 1986.8 | 1957.2 | 1874.8 | 1775.9 | 1723.1 | 1723.1 | 1752.8 | 1775.9 | 1785.8 |
| 35°   | 1828.6 | 1795.6 | 1723.1 | 1640.8 | 1598.0 | 1601.3 | 1630.9 | 1647.4 | 1657.3 |
| 37.5° | 1640.8 | 1630.9 | 1574.9 | 1505.8 | 1476.1 | 1482.7 | 1505.8 | 1518.9 | 1528.8 |
| 40°   | 1489.2 | 1462.8 | 1426.6 | 1370.7 | 1350.8 | 1357.5 | 1380.5 | 1393.8 | 1400.3 |
| 42.5° | 1324.6 | 1308.0 | 1278.3 | 1238.8 | 1225.7 | 1235.5 | 1255.3 | 1265.2 | 1261.9 |
| 45°   | 1166.3 | 1163.0 | 1133.5 | 1110.4 | 1103.8 | 1116.9 | 1130.1 | 1140.0 | 1143.3 |
| 47.5° | 1051.0 | 1037.9 | 1011.5 | 995.1  | 988.5  | 1001.6 | 1014.8 | 1021.4 | 1021.4 |
| 50°   | 939.0  | 925.8  | 899.5  | 883.0  | 876.5  | 889.6  | 899.5  | 906.0  | 899.5  |
| 52.5° | 827.0  | 813.8  | 790.7  | 771.0  | 767.7  | 774.3  | 777.6  | 780.9  | 787.4  |
| 55°   | 738.1  | 724.9  | 698.5  | 675.4  | 668.8  | 672.1  | 668.8  | 668.8  | 665.6  |
| 57.5° | 652.4  | 639.2  | 612.9  | 586.5  | 576.6  | 573.2  | 563.4  | 560.1  | 556.8  |
| 60°   | 576.6  | 560.1  | 533.7  | 504.2  | 490.9  | 477.8  | 461.2  | 451.4  | 451.4  |
| 62.5° | 504.2  | 487.6  | 457.9  | 431.7  | 411.8  | 388.7  | 362.5  | 349.2  | 349.2  |
| 65°   | 434.9  | 421.7  | 388.7  | 359.2  | 332.8  | 303.1  | 273.4  | 266.9  | 273.4  |
| 67.5° | 369.0  | 355.9  | 322.9  | 293.2  | 260.3  | 224.0  | 197.7  | 197.7  | 204.3  |
| 70°   | 309.7  | 296.5  | 266.9  | 230.6  | 194.4  | 158.1  | 138.4  | 138.4  | 138.4  |
| 72.5° | 253.7  | 240.5  | 207.6  | 174.7  | 138.4  | 102.2  | 92.2   | 95.6   | 92.2   |
| 75°   | 197.7  | 187.8  | 158.1  | 121.9  | 88.9   | 62.6   | 59.4   | 56.1   | 59.4   |
| 77.5° | 148.3  | 138.4  | 112.0  | 79.1   | 49.4   | 36.2   | 33.0   | 33.0   | 33.0   |
| 80°   | 102.2  | 92.2   | 72.5   | 46.1   | 26.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 82.5° | 62.6   | 52.7   | 39.5   | 23.1   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 85°   | 29.7   | 23.1   | 16.4   | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 6.6    | 6.6    | 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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