

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: P582441

Luminaire Tested: **HCC6W40D010MB-HM63040830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582441  
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: HCC6W40D010MB-HM63040830-61RWWH  
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**

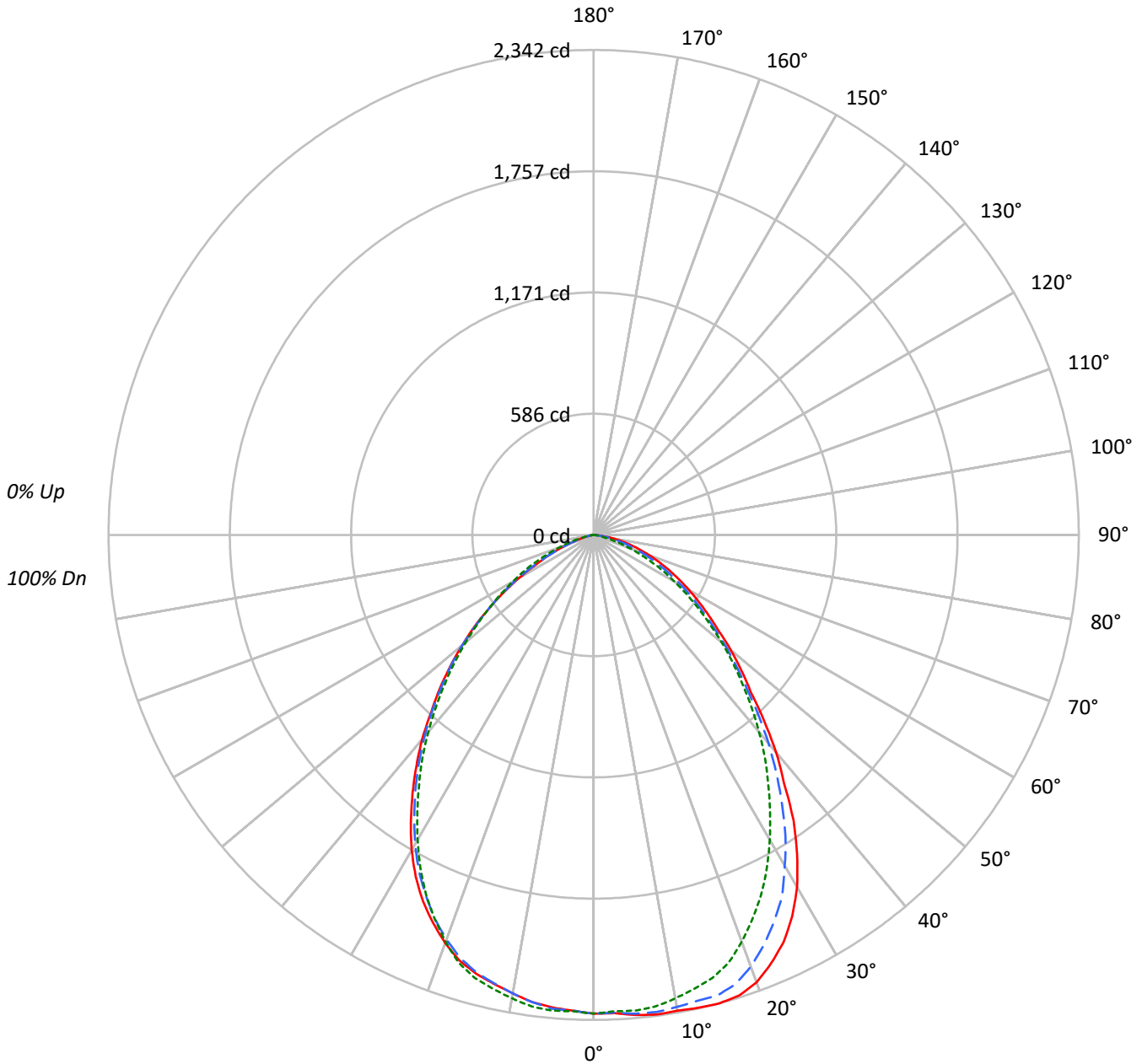
Lumens per Lamp: N/A  
Luminaire Lumens: 4530.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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°  | 126733 | 126733 | 126733 |
| 5°  | 128054 | 126882 | 126051 |
| 10° | 129868 | 126501 | 125148 |
| 15° | 132924 | 125704 | 124496 |
| 20° | 134161 | 121962 | 122318 |
| 25° | 131227 | 115827 | 118029 |
| 30° | 124291 | 107599 | 111239 |
| 35° | 112538 | 98343  | 101997 |
| 40° | 98005  | 88895  | 92151  |
| 45° | 83156  | 78690  | 81512  |
| 50° | 73644  | 68731  | 70539  |
| 55° | 64877  | 58779  | 58493  |
| 60° | 58131  | 49503  | 45512  |
| 65° | 51873  | 39693  | 32623  |
| 70° | 45649  | 28643  | 20404  |
| 75° | 38507  | 17326  | 11544  |
| 80° | 29644  | 7671   | 4799   |
| 85° | 17171  | 1887   | 1887   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 219.4  | 4.8       |
| 10°-20°   | 630.7  | 13.9      |
| 20°-30°   | 911.7  | 20.1      |
| 30°-40°   | 959.3  | 21.2      |
| 40°-50°   | 806.4  | 17.8      |
| 50°-60°   | 566.0  | 12.5      |
| 60°-70°   | 311.4  | 6.9       |
| 70°-80°   | 110.6  | 2.4       |
| 80°-90°   | 14.5   | 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°    | 1761.8 | 38.9      |
| 0°-40°    | 2721.2 | 60.1      |
| 0°-60°    | 4093.6 | 90.4      |
| 0°-90°    | 4530.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4530.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2312 | 2312 | 2312 | 2312 | 2312 |      |
| 5°  | 2327 | 2321 | 2306 | 2297 | 2291 | 222  |
| 15° | 2342 | 2303 | 2215 | 2188 | 2194 | 661  |
| 25° | 2170 | 2060 | 1915 | 1918 | 1951 | 992  |
| 35° | 1682 | 1585 | 1470 | 1500 | 1524 | 1042 |
| 45° | 1073 | 1042 | 1015 | 1039 | 1051 | 841  |
| 55° | 679  | 642  | 615  | 615  | 612  | 611  |
| 65° | 400  | 358  | 306  | 252  | 252  | 398  |
| 75° | 182  | 146  | 82   | 54   | 54   | 195  |
| 85° | 27   | 15   | 3    | 3    | 3    | 37   |
| 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°    | 2311.8 | 2311.8 | 2311.8 | 2311.8 | 2311.8 | 2311.8 | 2311.8 | 2311.8 | 2311.8 |
| 2.5°  | 2311.8 | 2311.8 | 2308.8 | 2308.8 | 2302.7 | 2302.7 | 2299.7 | 2299.7 | 2299.7 |
| 5°    | 2327.0 | 2327.0 | 2320.9 | 2311.8 | 2305.7 | 2296.6 | 2296.6 | 2293.6 | 2290.6 |
| 7.5°  | 2336.1 | 2333.0 | 2323.9 | 2311.8 | 2296.6 | 2281.6 | 2275.5 | 2278.6 | 2275.5 |
| 10°   | 2333.0 | 2327.0 | 2314.8 | 2290.6 | 2272.5 | 2251.3 | 2248.2 | 2245.2 | 2248.2 |
| 12.5° | 2339.1 | 2330.0 | 2305.7 | 2275.5 | 2245.2 | 2220.9 | 2217.9 | 2217.9 | 2220.9 |
| 15°   | 2342.1 | 2333.0 | 2302.7 | 2257.3 | 2214.9 | 2190.6 | 2187.6 | 2190.6 | 2193.6 |
| 17.5° | 2333.0 | 2320.9 | 2275.5 | 2214.9 | 2166.5 | 2142.2 | 2142.2 | 2148.3 | 2154.3 |
| 20°   | 2299.7 | 2281.6 | 2217.9 | 2145.2 | 2090.6 | 2072.4 | 2078.5 | 2090.6 | 2096.7 |
| 22.5° | 2239.1 | 2217.9 | 2145.2 | 2063.4 | 2005.8 | 1990.6 | 2005.8 | 2021.0 | 2027.0 |
| 25°   | 2169.5 | 2145.2 | 2060.4 | 1975.5 | 1914.9 | 1896.7 | 1918.0 | 1942.2 | 1951.3 |
| 27.5° | 2075.4 | 2048.3 | 1969.4 | 1872.5 | 1811.9 | 1802.8 | 1827.1 | 1854.4 | 1860.3 |
| 30°   | 1963.5 | 1933.1 | 1845.3 | 1754.3 | 1699.8 | 1696.8 | 1724.1 | 1748.3 | 1757.3 |
| 32.5° | 1827.1 | 1799.8 | 1724.1 | 1633.2 | 1584.6 | 1584.6 | 1611.9 | 1633.2 | 1642.3 |
| 35°   | 1681.6 | 1651.3 | 1584.6 | 1508.9 | 1469.5 | 1472.5 | 1499.8 | 1515.0 | 1524.1 |
| 37.5° | 1508.9 | 1499.8 | 1448.3 | 1384.7 | 1357.4 | 1363.5 | 1384.7 | 1396.8 | 1405.9 |
| 40°   | 1369.5 | 1345.2 | 1312.0 | 1260.4 | 1242.2 | 1248.3 | 1269.5 | 1281.7 | 1287.7 |
| 42.5° | 1218.1 | 1202.9 | 1175.6 | 1139.2 | 1127.1 | 1136.2 | 1154.4 | 1163.5 | 1160.5 |
| 45°   | 1072.6 | 1069.6 | 1042.3 | 1021.0 | 1015.0 | 1027.1 | 1039.2 | 1048.3 | 1051.4 |
| 47.5° | 966.6  | 954.4  | 930.2  | 915.0  | 908.9  | 921.1  | 933.2  | 939.3  | 939.3  |
| 50°   | 863.5  | 851.4  | 827.1  | 812.0  | 805.9  | 818.0  | 827.1  | 833.2  | 827.1  |
| 52.5° | 760.5  | 748.4  | 727.2  | 709.0  | 705.9  | 712.0  | 715.0  | 718.1  | 724.1  |
| 55°   | 678.8  | 666.6  | 642.4  | 621.1  | 615.0  | 618.1  | 615.0  | 615.0  | 612.0  |
| 57.5° | 599.9  | 587.7  | 563.6  | 539.3  | 530.2  | 527.2  | 518.1  | 515.1  | 512.0  |
| 60°   | 530.2  | 515.1  | 490.8  | 463.6  | 451.5  | 439.4  | 424.2  | 415.1  | 415.1  |
| 62.5° | 463.6  | 448.5  | 421.2  | 396.9  | 378.7  | 357.6  | 333.3  | 321.2  | 321.2  |
| 65°   | 399.9  | 387.8  | 357.6  | 330.3  | 306.0  | 278.7  | 251.5  | 245.5  | 251.5  |
| 67.5° | 339.4  | 327.2  | 296.9  | 269.6  | 239.4  | 206.0  | 181.8  | 181.8  | 187.8  |
| 70°   | 284.8  | 272.6  | 245.5  | 212.1  | 178.7  | 145.5  | 127.3  | 127.3  | 127.3  |
| 72.5° | 233.3  | 221.2  | 190.9  | 160.5  | 127.3  | 93.9   | 84.8   | 87.8   | 84.8   |
| 75°   | 181.8  | 172.7  | 145.5  | 112.1  | 81.8   | 57.5   | 54.5   | 51.6   | 54.5   |
| 77.5° | 136.4  | 127.3  | 103.0  | 72.7   | 45.5   | 33.4   | 30.3   | 30.3   | 30.3   |
| 80°   | 93.9   | 84.8   | 66.6   | 42.5   | 24.3   | 15.2   | 15.2   | 15.2   | 15.2   |
| 82.5° | 57.5   | 48.5   | 36.4   | 21.2   | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    |
| 85°   | 27.3   | 21.2   | 15.2   | 6.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 87.5° | 6.1    | 6.1    | 3.0    | 3.0    | 0.0    | 3.0    | 3.0    | 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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