

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: P582556

Luminaire Tested: **HCC6W40D010MW-HM63040940-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582556  
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: HCC6W40D010MW-HM63040940-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

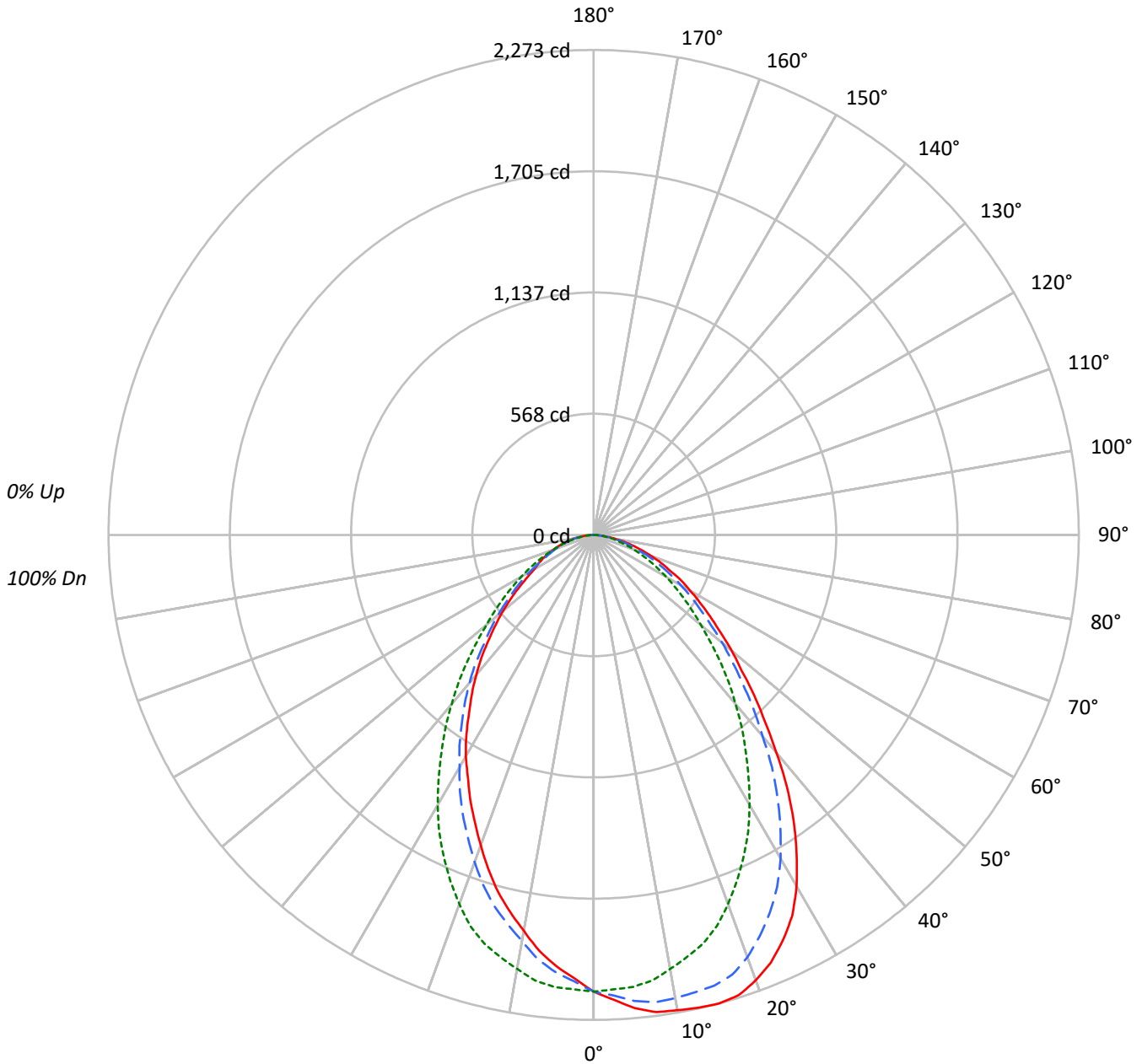
Lumens per Lamp: N/A  
Luminaire Lumens: 3987.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |    | 87  |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 117348 | 117348 | 117348 |
| 5°  | 122551 | 117004 | 111611 |
| 10° | 125894 | 114989 | 104886 |
| 15° | 129013 | 112498 | 98270  |
| 20° | 129587 | 107395 | 90255  |
| 25° | 126860 | 100548 | 82777  |
| 30° | 120367 | 92464  | 75860  |
| 35° | 109326 | 83098  | 68054  |
| 40° | 95250  | 74010  | 61229  |
| 45° | 82419  | 64774  | 53827  |
| 50° | 71998  | 55776  | 47180  |
| 55° | 63615  | 49011  | 40476  |
| 60° | 57166  | 42968  | 35074  |
| 65° | 51186  | 37371  | 34011  |
| 70° | 45713  | 31864  | 31864  |
| 75° | 39672  | 26857  | 29886  |
| 80° | 31822  | 22730  | 27276  |
| 85° | 21763  | 19939  | 23587  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 201.2  | 5.0       |
| 10°-20°   | 559.2  | 14.0      |
| 20°-30°   | 779.4  | 19.5      |
| 30°-40°   | 803.0  | 20.1      |
| 40°-50°   | 665.5  | 16.7      |
| 50°-60°   | 478.3  | 12.0      |
| 60°-70°   | 304.6  | 7.6       |
| 70°-80°   | 156.4  | 3.9       |
| 80°-90°   | 39.8   | 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°    | 1539.8 | 38.6      |
| 0°-40°    | 2342.8 | 58.8      |
| 0°-60°    | 3486.6 | 87.4      |
| 0°-90°    | 3987.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3987.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2141 | 2141 | 2141 | 2141 | 2141 |      |
| 5°  | 2227 | 2192 | 2126 | 2057 | 2028 | 214  |
| 15° | 2273 | 2187 | 1982 | 1801 | 1732 | 641  |
| 25° | 2097 | 1953 | 1662 | 1449 | 1368 | 961  |
| 35° | 1634 | 1501 | 1242 | 1078 | 1017 | 1015 |
| 45° | 1063 | 988  | 836  | 729  | 694  | 823  |
| 55° | 666  | 611  | 513  | 455  | 424  | 600  |
| 65° | 395  | 352  | 288  | 251  | 262  | 395  |
| 75° | 187  | 161  | 127  | 133  | 141  | 200  |
| 85° | 35   | 32   | 32   | 35   | 38   | 44   |
| 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°    | 2140.6 | 2140.6 | 2140.6 | 2140.6 | 2140.6 | 2140.6 | 2140.6 | 2140.6 | 2140.6 |
| 2.5°  | 2181.0 | 2172.3 | 2160.8 | 2149.3 | 2131.9 | 2111.9 | 2094.6 | 2088.8 | 2080.1 |
| 5°    | 2227.0 | 2215.5 | 2192.4 | 2163.7 | 2126.2 | 2088.8 | 2057.1 | 2036.9 | 2028.2 |
| 7.5°  | 2255.9 | 2241.4 | 2209.7 | 2160.8 | 2106.0 | 2051.3 | 2005.1 | 1976.4 | 1964.9 |
| 10°   | 2261.6 | 2247.2 | 2204.0 | 2137.7 | 2065.7 | 1990.8 | 1933.1 | 1898.6 | 1884.2 |
| 12.5° | 2270.3 | 2250.1 | 2195.3 | 2117.5 | 2025.3 | 1938.9 | 1866.9 | 1823.6 | 1809.3 |
| 15°   | 2273.2 | 2250.1 | 2186.6 | 2091.7 | 1982.2 | 1878.4 | 1800.7 | 1748.7 | 1731.5 |
| 17.5° | 2261.6 | 2235.7 | 2160.8 | 2045.5 | 1921.7 | 1812.2 | 1720.0 | 1665.2 | 1642.2 |
| 20°   | 2221.3 | 2192.4 | 2106.0 | 1976.4 | 1840.9 | 1725.8 | 1630.7 | 1573.0 | 1547.1 |
| 22.5° | 2169.4 | 2131.9 | 2034.0 | 1895.7 | 1754.5 | 1633.6 | 1538.5 | 1480.8 | 1454.9 |
| 25°   | 2097.3 | 2062.8 | 1953.3 | 1806.4 | 1662.3 | 1535.6 | 1449.2 | 1388.6 | 1368.5 |
| 27.5° | 2013.8 | 1973.5 | 1861.1 | 1714.2 | 1567.2 | 1440.5 | 1357.0 | 1302.2 | 1276.3 |
| 30°   | 1901.5 | 1864.0 | 1751.6 | 1604.7 | 1460.7 | 1342.6 | 1256.1 | 1210.1 | 1198.4 |
| 32.5° | 1768.9 | 1737.3 | 1627.8 | 1489.5 | 1351.2 | 1241.7 | 1169.7 | 1120.8 | 1109.1 |
| 35°   | 1633.6 | 1596.1 | 1501.0 | 1371.4 | 1241.7 | 1143.7 | 1077.5 | 1034.2 | 1016.9 |
| 37.5° | 1486.6 | 1452.1 | 1371.4 | 1256.1 | 1140.9 | 1048.7 | 991.1  | 953.6  | 936.4  |
| 40°   | 1331.0 | 1305.2 | 1230.2 | 1138.0 | 1034.2 | 953.6  | 904.7  | 872.9  | 855.6  |
| 42.5° | 1187.0 | 1161.1 | 1109.1 | 1022.8 | 936.4  | 864.3  | 821.1  | 792.3  | 777.8  |
| 45°   | 1063.1 | 1040.0 | 988.2  | 913.3  | 835.5  | 775.0  | 728.9  | 708.7  | 694.3  |
| 47.5° | 939.3  | 927.7  | 881.6  | 812.5  | 740.5  | 688.5  | 656.9  | 633.8  | 622.3  |
| 50°   | 844.2  | 829.8  | 786.5  | 714.5  | 654.0  | 613.6  | 584.8  | 564.7  | 553.2  |
| 52.5° | 746.2  | 731.8  | 691.4  | 631.0  | 581.9  | 544.5  | 515.7  | 498.5  | 486.8  |
| 55°   | 665.6  | 654.0  | 610.8  | 556.1  | 512.8  | 481.2  | 455.2  | 435.0  | 423.5  |
| 57.5° | 590.6  | 579.0  | 538.8  | 486.8  | 449.4  | 420.6  | 397.5  | 380.3  | 365.9  |
| 60°   | 521.4  | 512.8  | 472.5  | 423.5  | 391.9  | 363.0  | 342.8  | 328.4  | 319.9  |
| 62.5° | 461.0  | 443.7  | 409.2  | 365.9  | 337.1  | 314.1  | 293.9  | 285.2  | 291.0  |
| 65°   | 394.6  | 386.1  | 351.5  | 314.1  | 288.1  | 265.1  | 250.6  | 256.4  | 262.2  |
| 67.5° | 339.9  | 328.4  | 299.7  | 265.1  | 242.0  | 224.8  | 216.1  | 227.7  | 230.4  |
| 70°   | 285.2  | 273.7  | 247.7  | 219.0  | 198.8  | 187.3  | 187.3  | 195.9  | 198.8  |
| 72.5° | 233.3  | 224.8  | 201.7  | 178.6  | 164.2  | 155.5  | 161.3  | 167.1  | 170.0  |
| 75°   | 187.3  | 178.6  | 161.3  | 141.1  | 126.8  | 126.8  | 132.6  | 138.2  | 141.1  |
| 77.5° | 144.0  | 138.2  | 121.0  | 106.6  | 100.8  | 100.8  | 106.6  | 109.5  | 112.4  |
| 80°   | 100.8  | 95.1   | 86.4   | 77.8   | 72.0   | 77.8   | 83.5   | 83.5   | 86.4   |
| 82.5° | 66.2   | 63.4   | 57.6   | 51.8   | 51.8   | 54.7   | 57.6   | 60.5   | 60.5   |
| 85°   | 34.6   | 34.6   | 31.7   | 28.8   | 31.7   | 34.6   | 34.6   | 37.5   | 37.5   |
| 87.5° | 11.5   | 11.5   | 11.5   | 11.5   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   |
| 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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Scaled Data Report





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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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