

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: P582548

Luminaire Tested: **HCC6S40D010MB-HM63040940-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010MB-HM63040940-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

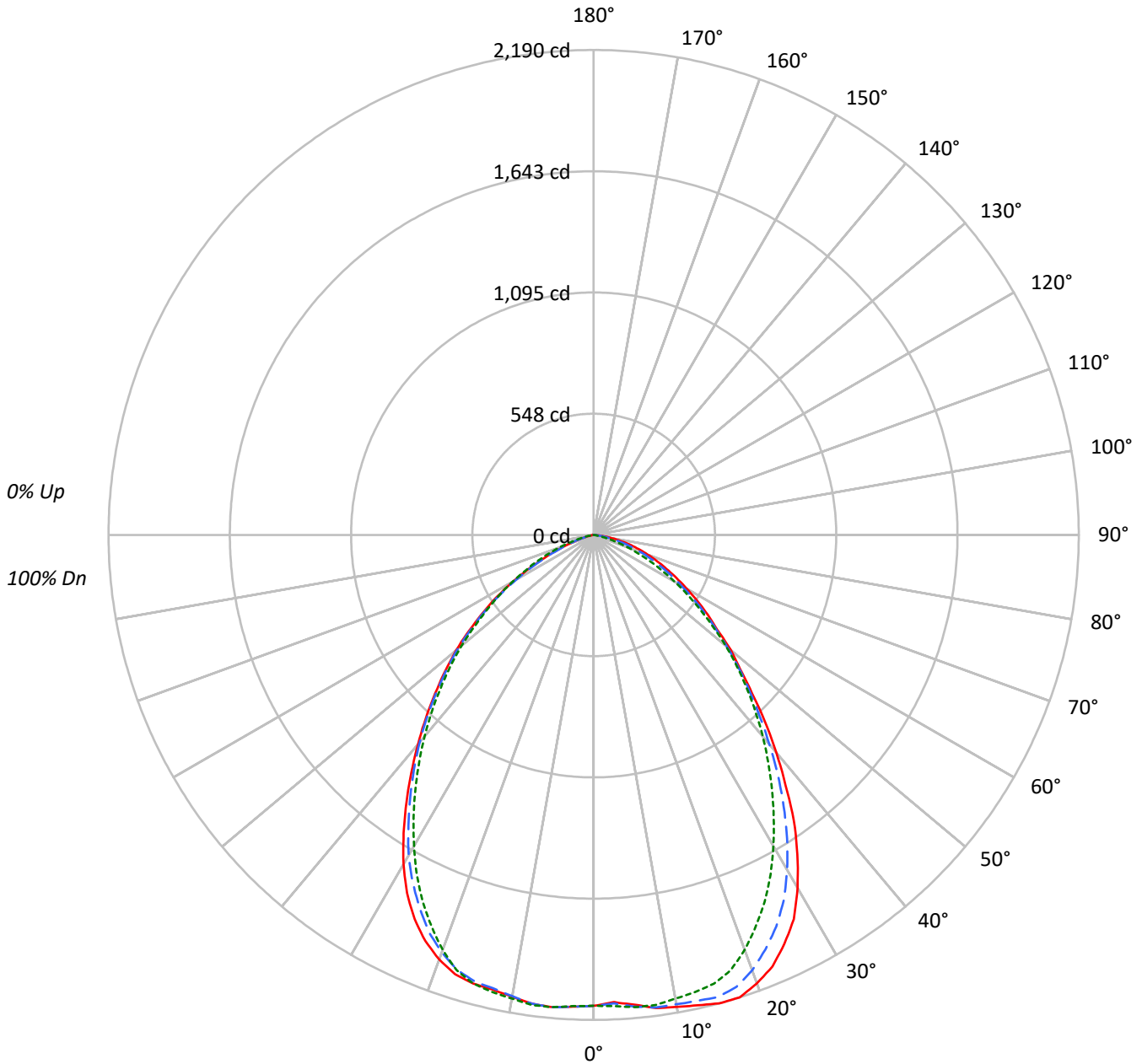
Lumens per Lamp: N/A  
Luminaire Lumens: 4292.9 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  | 94  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |  |  |  |  |   |
| 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  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 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°  | 116570 | 116570 | 116570 |
| 5°  | 117174 | 117802 | 117802 |
| 10° | 120450 | 118368 | 117889 |
| 15° | 124280 | 119047 | 119047 |
| 20° | 125725 | 116315 | 119010 |
| 25° | 123219 | 110492 | 115724 |
| 30° | 116543 | 102680 | 108700 |
| 35° | 105477 | 93906  | 98531  |
| 40° | 91758  | 84952  | 88244  |
| 45° | 78403  | 75721  | 78403  |
| 50° | 68799  | 66343  | 69047  |
| 55° | 60031  | 55893  | 58101  |
| 60° | 53077  | 46433  | 45797  |
| 65° | 47087  | 36632  | 31391  |
| 70° | 41561  | 25854  | 18946  |
| 75° | 35393  | 14636  | 9171   |
| 80° | 26361  | 4546   | 2747   |
| 85° | 14530  | 1824   | 1824   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 204.0  | 4.8       |
| 10°-20°   | 596.7  | 13.9      |
| 20°-30°   | 871.6  | 20.3      |
| 30°-40°   | 914.1  | 21.3      |
| 40°-50°   | 770.1  | 17.9      |
| 50°-60°   | 539.5  | 12.6      |
| 60°-70°   | 289.3  | 6.7       |
| 70°-80°   | 97.0   | 2.3       |
| 80°-90°   | 10.6   | 0.2       |
| 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°    | 1672.3 | 39.0      |
| 0°-40°    | 2586.4 | 60.2      |
| 0°-60°    | 3896.0 | 90.8      |
| 0°-90°    | 4292.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4292.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2126 | 2126 | 2126 | 2126 | 2126 |      |
| 5°  | 2129 | 2138 | 2141 | 2141 | 2141 | 205  |
| 15° | 2190 | 2161 | 2098 | 2086 | 2098 | 618  |
| 25° | 2037 | 1951 | 1827 | 1858 | 1913 | 933  |
| 35° | 1576 | 1495 | 1403 | 1444 | 1472 | 978  |
| 45° | 1011 | 994  | 977  | 1003 | 1011 | 788  |
| 55° | 628  | 608  | 585  | 596  | 608  | 565  |
| 65° | 363  | 331  | 282  | 233  | 242  | 363  |
| 75° | 167  | 130  | 69   | 43   | 43   | 177  |
| 85° | 23   | 12   | 3    | 3    | 3    | 32   |
| 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°    | 2126.4 | 2126.4 | 2126.4 | 2126.4 | 2126.4 | 2126.4 | 2126.4 | 2126.4 | 2126.4 |
| 2.5°  | 2112.0 | 2112.0 | 2117.8 | 2123.5 | 2129.3 | 2129.3 | 2132.2 | 2135.1 | 2132.2 |
| 5°    | 2129.3 | 2129.3 | 2137.8 | 2140.7 | 2140.7 | 2137.8 | 2140.7 | 2140.7 | 2140.7 |
| 7.5°  | 2155.1 | 2149.4 | 2152.3 | 2146.5 | 2140.7 | 2137.8 | 2135.1 | 2135.1 | 2135.1 |
| 10°   | 2163.8 | 2158.0 | 2152.3 | 2140.7 | 2126.4 | 2117.8 | 2114.9 | 2117.8 | 2117.8 |
| 12.5° | 2175.3 | 2169.6 | 2155.1 | 2132.2 | 2114.9 | 2100.4 | 2097.6 | 2103.3 | 2103.3 |
| 15°   | 2189.8 | 2184.0 | 2160.9 | 2123.5 | 2097.6 | 2083.1 | 2086.0 | 2091.8 | 2097.6 |
| 17.5° | 2189.8 | 2178.2 | 2140.7 | 2091.8 | 2060.1 | 2045.6 | 2057.2 | 2071.6 | 2080.3 |
| 20°   | 2155.1 | 2143.6 | 2091.8 | 2031.3 | 1993.8 | 1985.2 | 2005.4 | 2031.3 | 2040.0 |
| 22.5° | 2109.1 | 2086.0 | 2025.6 | 1953.4 | 1913.2 | 1913.2 | 1942.0 | 1973.6 | 1985.2 |
| 25°   | 2037.1 | 2019.8 | 1950.7 | 1867.0 | 1826.7 | 1823.8 | 1858.5 | 1901.6 | 1913.2 |
| 27.5° | 1956.3 | 1933.3 | 1858.5 | 1771.9 | 1728.8 | 1731.6 | 1769.0 | 1812.3 | 1823.8 |
| 30°   | 1841.1 | 1812.3 | 1746.1 | 1662.5 | 1622.1 | 1633.7 | 1671.2 | 1702.8 | 1717.2 |
| 32.5° | 1711.4 | 1685.6 | 1625.0 | 1547.2 | 1512.6 | 1524.2 | 1555.9 | 1584.6 | 1596.3 |
| 35°   | 1576.1 | 1547.2 | 1495.4 | 1426.2 | 1403.2 | 1414.8 | 1443.5 | 1466.6 | 1472.3 |
| 37.5° | 1423.3 | 1403.2 | 1365.7 | 1311.0 | 1293.7 | 1308.1 | 1331.1 | 1345.5 | 1351.3 |
| 40°   | 1282.2 | 1264.9 | 1233.1 | 1192.9 | 1187.1 | 1198.6 | 1221.7 | 1230.2 | 1233.1 |
| 42.5° | 1143.8 | 1129.5 | 1109.3 | 1080.5 | 1080.5 | 1092.0 | 1112.2 | 1118.0 | 1120.8 |
| 45°   | 1011.3 | 1002.7 | 994.0  | 971.0  | 976.7  | 991.1  | 1002.7 | 1011.3 | 1011.3 |
| 47.5° | 896.1  | 898.9  | 887.4  | 870.1  | 875.9  | 890.3  | 898.9  | 907.6  | 907.6  |
| 50°   | 806.7  | 798.1  | 786.5  | 769.2  | 777.9  | 789.4  | 801.0  | 806.7  | 809.6  |
| 52.5° | 703.0  | 700.1  | 691.6  | 671.4  | 677.0  | 682.8  | 694.3  | 703.0  | 705.9  |
| 55°   | 628.1  | 619.5  | 607.9  | 584.8  | 584.8  | 590.6  | 596.5  | 602.1  | 607.9  |
| 57.5° | 556.1  | 547.4  | 530.1  | 504.3  | 501.4  | 501.4  | 498.5  | 504.3  | 512.8  |
| 60°   | 484.1  | 481.2  | 455.2  | 432.2  | 423.5  | 415.0  | 403.4  | 406.3  | 417.7  |
| 62.5° | 420.6  | 415.0  | 391.9  | 363.0  | 345.7  | 331.3  | 317.0  | 314.1  | 325.5  |
| 65°   | 363.0  | 357.3  | 331.3  | 302.6  | 282.4  | 256.4  | 233.3  | 233.3  | 242.0  |
| 67.5° | 311.2  | 299.7  | 276.6  | 244.9  | 219.0  | 187.3  | 164.2  | 170.0  | 172.9  |
| 70°   | 259.3  | 250.6  | 224.8  | 193.1  | 161.3  | 129.7  | 115.3  | 118.2  | 118.2  |
| 72.5° | 213.2  | 201.7  | 175.7  | 144.0  | 112.4  | 83.5   | 77.8   | 74.9   | 74.9   |
| 75°   | 167.1  | 155.6  | 129.7  | 98.0   | 69.1   | 48.9   | 43.3   | 43.3   | 43.3   |
| 77.5° | 121.0  | 112.4  | 89.3   | 60.5   | 37.5   | 23.1   | 20.2   | 17.3   | 17.3   |
| 80°   | 83.5   | 74.9   | 54.7   | 31.7   | 14.4   | 8.7    | 8.7    | 8.7    | 8.7    |
| 82.5° | 48.9   | 40.4   | 26.0   | 14.4   | 5.8    | 2.9    | 2.9    | 2.9    | 2.9    |
| 85°   | 23.1   | 17.3   | 11.5   | 5.8    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 87.5° | 2.9    | 2.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 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



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

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