

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: P582369

Luminaire Tested: **HCC6S35D010MW-HM63040930-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582369  
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: HCC6S35D010MW-HM63040930-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

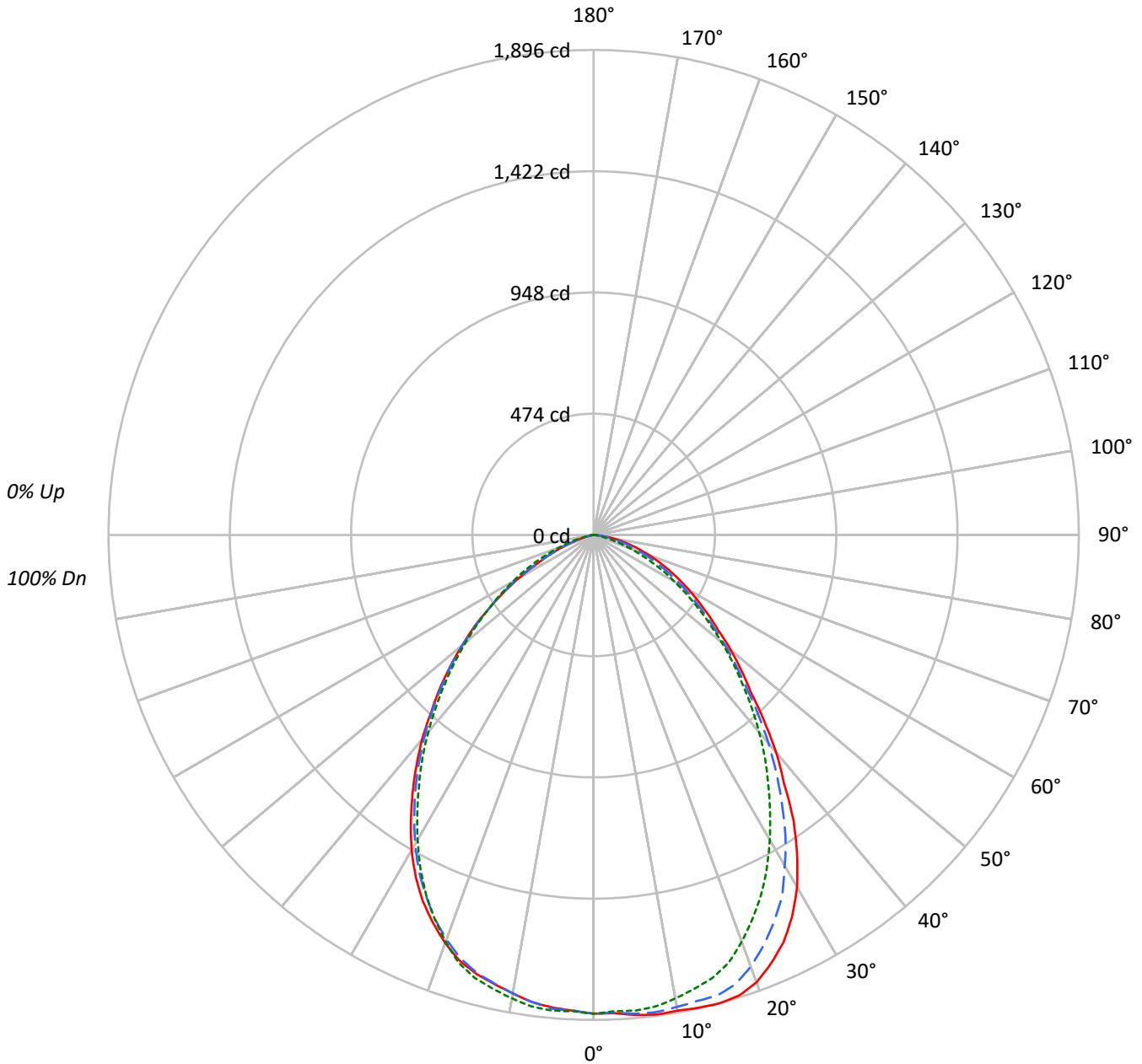
Lumens per Lamp: N/A  
Luminaire Lumens: 3667.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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°  | 102601 | 102601 | 102601 |
| 5°  | 103670 | 102724 | 102052 |
| 10° | 105142 | 102414 | 101317 |
| 15° | 107611 | 101766 | 100789 |
| 20° | 108614 | 98738  | 99024  |
| 25° | 106234 | 93768  | 95558  |
| 30° | 100623 | 87108  | 90058  |
| 35° | 91109  | 79612  | 82576  |
| 40° | 79349  | 71971  | 74604  |
| 45° | 67325  | 63712  | 65991  |
| 50° | 59623  | 55648  | 57107  |
| 55° | 52509  | 47597  | 47358  |
| 60° | 47058  | 40074  | 36850  |
| 65° | 42002  | 32144  | 26410  |
| 70° | 36961  | 23193  | 16509  |
| 75° | 31178  | 14043  | 9341   |
| 80° | 24025  | 6188   | 3883   |
| 85° | 13901  | 1572   | 1572   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 177.7  | 4.8       |
| 10°-20°   | 510.6  | 13.9      |
| 20°-30°   | 738.1  | 20.1      |
| 30°-40°   | 776.6  | 21.2      |
| 40°-50°   | 652.9  | 17.8      |
| 50°-60°   | 458.2  | 12.5      |
| 60°-70°   | 252.1  | 6.9       |
| 70°-80°   | 89.5   | 2.4       |
| 80°-90°   | 11.7   | 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°    | 1426.3 | 38.9      |
| 0°-40°    | 2203.0 | 60.1      |
| 0°-60°    | 3314.1 | 90.4      |
| 0°-90°    | 3667.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3667.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1872 | 1872 | 1872 | 1872 | 1872 |      |
| 5°  | 1884 | 1879 | 1867 | 1859 | 1854 | 180  |
| 15° | 1896 | 1864 | 1793 | 1771 | 1776 | 535  |
| 25° | 1756 | 1668 | 1550 | 1553 | 1580 | 803  |
| 35° | 1361 | 1283 | 1190 | 1214 | 1234 | 844  |
| 45° | 868  | 844  | 822  | 841  | 851  | 681  |
| 55° | 549  | 520  | 498  | 498  | 496  | 495  |
| 65° | 324  | 289  | 248  | 204  | 204  | 322  |
| 75° | 147  | 118  | 66   | 44   | 44   | 158  |
| 85° | 22   | 12   | 2    | 2    | 2    | 30   |
| 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°    | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 |
| 2.5°  | 1871.6 | 1871.6 | 1869.2 | 1869.2 | 1864.3 | 1864.3 | 1861.8 | 1861.8 | 1861.8 |
| 5°    | 1883.9 | 1883.9 | 1879.0 | 1871.6 | 1866.7 | 1859.4 | 1859.4 | 1856.9 | 1854.5 |
| 7.5°  | 1891.2 | 1888.8 | 1881.4 | 1871.6 | 1859.4 | 1847.1 | 1842.2 | 1844.7 | 1842.2 |
| 10°   | 1888.8 | 1883.9 | 1874.1 | 1854.5 | 1839.8 | 1822.5 | 1820.1 | 1817.6 | 1820.1 |
| 12.5° | 1893.7 | 1886.3 | 1866.7 | 1842.2 | 1817.6 | 1798.0 | 1795.5 | 1795.5 | 1798.0 |
| 15°   | 1896.1 | 1888.8 | 1864.3 | 1827.5 | 1793.1 | 1773.5 | 1771.0 | 1773.5 | 1775.9 |
| 17.5° | 1888.8 | 1879.0 | 1842.2 | 1793.1 | 1753.9 | 1734.3 | 1734.3 | 1739.2 | 1744.1 |
| 20°   | 1861.8 | 1847.1 | 1795.5 | 1736.7 | 1692.5 | 1677.8 | 1682.7 | 1692.5 | 1697.4 |
| 22.5° | 1812.7 | 1795.5 | 1736.7 | 1670.4 | 1623.9 | 1611.6 | 1623.9 | 1636.1 | 1641.0 |
| 25°   | 1756.3 | 1736.7 | 1668.0 | 1599.4 | 1550.2 | 1535.5 | 1552.7 | 1572.3 | 1579.8 |
| 27.5° | 1680.2 | 1658.2 | 1594.5 | 1515.9 | 1466.9 | 1459.6 | 1479.2 | 1501.2 | 1506.1 |
| 30°   | 1589.6 | 1564.9 | 1493.9 | 1420.2 | 1376.1 | 1373.7 | 1395.7 | 1415.3 | 1422.7 |
| 32.5° | 1479.2 | 1457.1 | 1395.7 | 1322.1 | 1282.9 | 1282.9 | 1304.9 | 1322.1 | 1329.6 |
| 35°   | 1361.4 | 1336.9 | 1282.9 | 1221.6 | 1189.6 | 1192.1 | 1214.3 | 1226.5 | 1233.9 |
| 37.5° | 1221.6 | 1214.3 | 1172.5 | 1121.0 | 1099.0 | 1103.9 | 1121.0 | 1130.8 | 1138.2 |
| 40°   | 1108.8 | 1089.2 | 1062.1 | 1020.4 | 1005.7 | 1010.6 | 1027.8 | 1037.6 | 1042.5 |
| 42.5° | 986.1  | 973.9  | 951.8  | 922.3  | 912.5  | 919.8  | 934.5  | 941.9  | 939.4  |
| 45°   | 868.4  | 865.9  | 843.9  | 826.7  | 821.8  | 831.6  | 841.4  | 848.8  | 851.2  |
| 47.5° | 782.5  | 772.7  | 753.1  | 740.8  | 735.9  | 745.7  | 755.5  | 760.4  | 760.4  |
| 50°   | 699.1  | 689.2  | 669.6  | 657.4  | 652.5  | 662.3  | 669.6  | 674.5  | 669.6  |
| 52.5° | 615.7  | 605.9  | 588.8  | 574.0  | 571.6  | 576.5  | 578.9  | 581.4  | 586.3  |
| 55°   | 549.4  | 539.6  | 520.0  | 502.9  | 498.0  | 500.4  | 498.0  | 498.0  | 495.5  |
| 57.5° | 485.7  | 475.9  | 456.3  | 436.6  | 429.2  | 426.8  | 419.4  | 417.0  | 414.5  |
| 60°   | 429.2  | 417.0  | 397.4  | 375.3  | 365.5  | 355.7  | 343.4  | 336.1  | 336.1  |
| 62.5° | 375.3  | 363.1  | 341.0  | 321.4  | 306.6  | 289.4  | 269.8  | 260.0  | 260.0  |
| 65°   | 323.8  | 313.9  | 289.4  | 267.4  | 247.8  | 225.7  | 203.6  | 198.7  | 203.6  |
| 67.5° | 274.7  | 264.9  | 240.4  | 218.3  | 193.8  | 166.8  | 147.2  | 147.2  | 152.1  |
| 70°   | 230.6  | 220.8  | 198.7  | 171.7  | 144.7  | 117.8  | 103.0  | 103.0  | 103.0  |
| 72.5° | 188.8  | 179.0  | 154.5  | 130.0  | 103.0  | 76.1   | 68.7   | 71.2   | 68.7   |
| 75°   | 147.2  | 139.8  | 117.8  | 90.8   | 66.3   | 46.6   | 44.1   | 41.7   | 44.1   |
| 77.5° | 110.4  | 103.0  | 83.4   | 58.8   | 36.8   | 27.0   | 24.5   | 24.5   | 24.5   |
| 80°   | 76.1   | 68.7   | 53.9   | 34.3   | 19.6   | 12.3   | 12.3   | 12.3   | 12.3   |
| 82.5° | 46.6   | 39.2   | 29.4   | 17.2   | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    |
| 85°   | 22.1   | 17.2   | 12.3   | 4.9    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 87.5° | 4.9    | 4.9    | 2.5    | 2.5    | 0.0    | 2.5    | 2.5    | 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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