

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: P582386

Luminaire Tested: **HCC6W35D010MB-HM63040935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582386  
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: HCC6W35D010MB-HM63040935-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

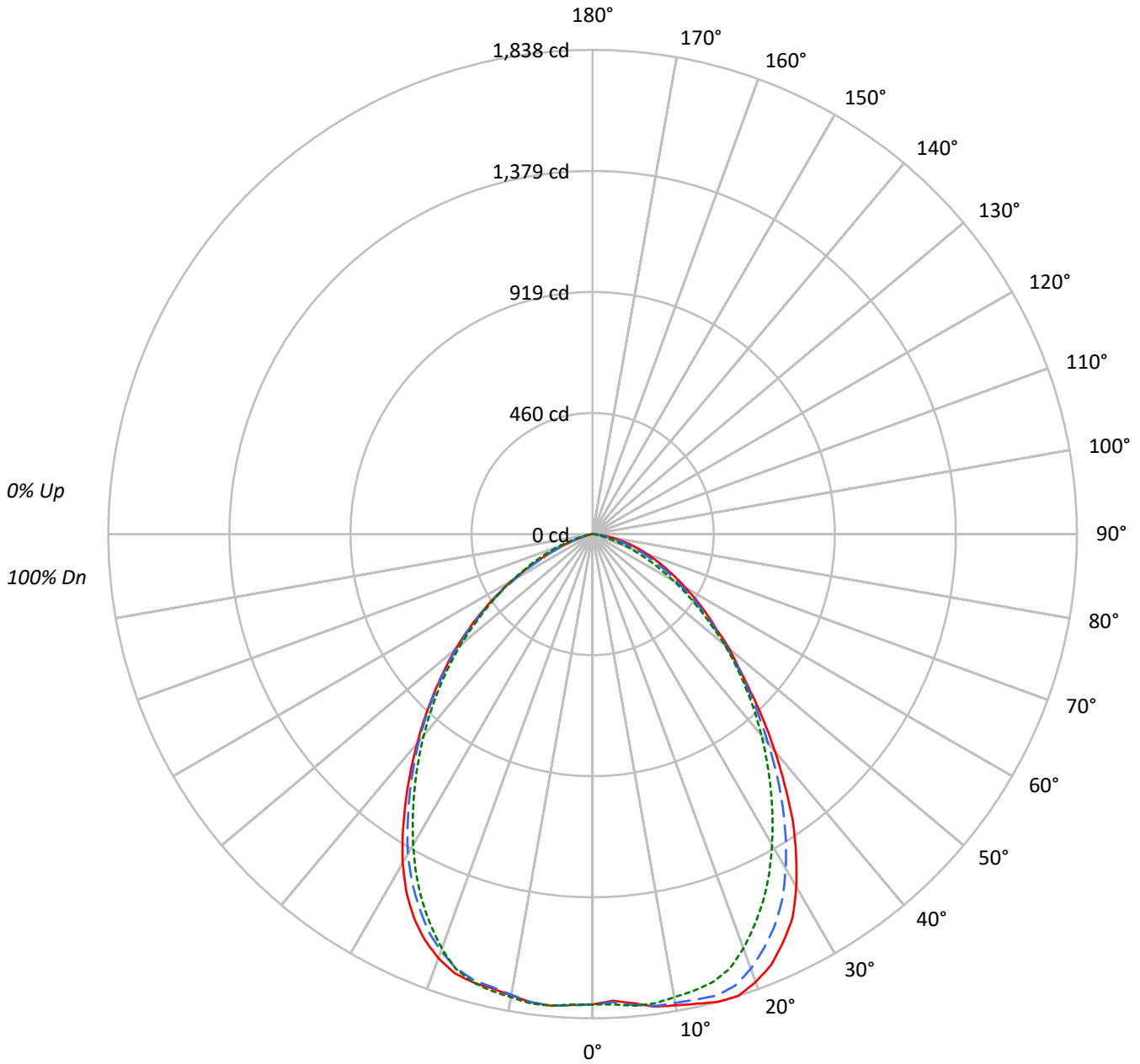
Lumens per Lamp: N/A  
Luminaire Lumens: 3604.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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°  | 97865  | 97865 | 97865 |
| 5°  | 98371  | 98899 | 98899 |
| 10° | 101123 | 99375 | 98968 |
| 15° | 104337 | 99944 | 99944 |
| 20° | 105552 | 97647 | 99910 |
| 25° | 103439 | 92763 | 97149 |
| 30° | 97844  | 86209 | 91261 |
| 35° | 88546  | 78835 | 82724 |
| 40° | 77030  | 71319 | 74082 |
| 45° | 65821  | 63580 | 65821 |
| 50° | 57764  | 55700 | 57968 |
| 55° | 50407  | 46937 | 48772 |
| 60° | 44547  | 38988 | 38451 |
| 65° | 39537  | 30743 | 26358 |
| 70° | 34878  | 21718 | 15900 |
| 75° | 29717  | 12285 | 7689  |
| 80° | 22130  | 3820  | 2273  |
| 85° | 12202  | 1572  | 1572  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.2  | 4.8       |
| 10°-20°   | 501.0  | 13.9      |
| 20°-30°   | 731.7  | 20.3      |
| 30°-40°   | 767.4  | 21.3      |
| 40°-50°   | 646.5  | 17.9      |
| 50°-60°   | 453.0  | 12.6      |
| 60°-70°   | 242.8  | 6.7       |
| 70°-80°   | 81.4   | 2.3       |
| 80°-90°   | 8.9    | 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°    | 1403.9 | 39.0      |
| 0°-40°    | 2171.3 | 60.2      |
| 0°-60°    | 3270.8 | 90.8      |
| 0°-90°    | 3604.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3604.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1785 | 1785 | 1785 | 1785 | 1785 |      |
| 5°  | 1788 | 1795 | 1797 | 1797 | 1797 | 172  |
| 15° | 1838 | 1814 | 1761 | 1751 | 1761 | 519  |
| 25° | 1710 | 1638 | 1534 | 1560 | 1606 | 783  |
| 35° | 1323 | 1256 | 1178 | 1212 | 1236 | 821  |
| 45° | 849  | 834  | 820  | 842  | 849  | 661  |
| 55° | 527  | 510  | 491  | 501  | 510  | 475  |
| 65° | 305  | 278  | 237  | 196  | 203  | 304  |
| 75° | 140  | 109  | 58   | 36   | 36   | 149  |
| 85° | 19   | 10   | 2    | 2    | 2    | 27   |
| 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°    | 1785.2 | 1785.2 | 1785.2 | 1785.2 | 1785.2 | 1785.2 | 1785.2 | 1785.2 | 1785.2 |
| 2.5°  | 1773.0 | 1773.0 | 1777.9 | 1782.7 | 1787.6 | 1787.6 | 1789.9 | 1792.4 | 1789.9 |
| 5°    | 1787.6 | 1787.6 | 1794.8 | 1797.2 | 1797.2 | 1794.8 | 1797.2 | 1797.2 | 1797.2 |
| 7.5°  | 1809.3 | 1804.5 | 1806.9 | 1802.1 | 1797.2 | 1794.8 | 1792.4 | 1792.4 | 1792.4 |
| 10°   | 1816.6 | 1811.8 | 1806.9 | 1797.2 | 1785.2 | 1777.9 | 1775.5 | 1777.9 | 1777.9 |
| 12.5° | 1826.2 | 1821.5 | 1809.3 | 1789.9 | 1775.5 | 1763.3 | 1761.0 | 1765.8 | 1765.8 |
| 15°   | 1838.4 | 1833.5 | 1814.2 | 1782.7 | 1761.0 | 1748.9 | 1751.3 | 1756.1 | 1761.0 |
| 17.5° | 1838.4 | 1828.7 | 1797.2 | 1756.1 | 1729.5 | 1717.4 | 1727.0 | 1739.2 | 1746.4 |
| 20°   | 1809.3 | 1799.6 | 1756.1 | 1705.3 | 1673.8 | 1666.6 | 1683.5 | 1705.3 | 1712.6 |
| 22.5° | 1770.6 | 1751.3 | 1700.4 | 1640.0 | 1606.1 | 1606.1 | 1630.3 | 1656.9 | 1666.6 |
| 25°   | 1710.1 | 1695.7 | 1637.5 | 1567.4 | 1533.6 | 1531.1 | 1560.2 | 1596.5 | 1606.1 |
| 27.5° | 1642.4 | 1623.1 | 1560.2 | 1487.6 | 1451.3 | 1453.7 | 1485.2 | 1521.5 | 1531.1 |
| 30°   | 1545.7 | 1521.5 | 1465.9 | 1395.7 | 1361.9 | 1371.5 | 1403.0 | 1429.6 | 1441.7 |
| 32.5° | 1436.8 | 1415.1 | 1364.2 | 1299.0 | 1269.9 | 1279.6 | 1306.2 | 1330.4 | 1340.1 |
| 35°   | 1323.1 | 1299.0 | 1255.5 | 1197.3 | 1178.0 | 1187.7 | 1211.8 | 1231.2 | 1236.1 |
| 37.5° | 1194.9 | 1178.0 | 1146.6 | 1100.6 | 1086.1 | 1098.1 | 1117.5 | 1129.7 | 1134.4 |
| 40°   | 1076.4 | 1061.9 | 1035.2 | 1001.4 | 996.6  | 1006.3 | 1025.6 | 1032.9 | 1035.2 |
| 42.5° | 960.3  | 948.2  | 931.3  | 907.1  | 907.1  | 916.8  | 933.7  | 938.5  | 941.0  |
| 45°   | 849.0  | 841.8  | 834.5  | 815.1  | 820.1  | 832.1  | 841.8  | 849.0  | 849.0  |
| 47.5° | 752.2  | 754.7  | 745.0  | 730.5  | 735.3  | 747.5  | 754.7  | 761.9  | 761.9  |
| 50°   | 677.3  | 670.0  | 660.4  | 645.8  | 653.1  | 662.7  | 672.4  | 677.3  | 679.7  |
| 52.5° | 590.2  | 587.8  | 580.6  | 563.5  | 568.4  | 573.2  | 582.9  | 590.2  | 592.6  |
| 55°   | 527.4  | 520.0  | 510.3  | 491.1  | 491.1  | 495.9  | 500.8  | 505.5  | 510.3  |
| 57.5° | 466.8  | 459.6  | 445.1  | 423.3  | 420.9  | 420.9  | 418.5  | 423.3  | 430.5  |
| 60°   | 406.3  | 403.9  | 382.2  | 362.8  | 355.6  | 348.3  | 338.7  | 341.1  | 350.7  |
| 62.5° | 353.1  | 348.3  | 329.0  | 304.8  | 290.2  | 278.2  | 266.1  | 263.6  | 273.3  |
| 65°   | 304.8  | 299.9  | 278.2  | 253.9  | 237.0  | 215.3  | 195.9  | 195.9  | 203.2  |
| 67.5° | 261.3  | 251.6  | 232.2  | 205.6  | 183.8  | 157.2  | 137.8  | 142.7  | 145.2  |
| 70°   | 217.6  | 210.4  | 188.7  | 162.1  | 135.5  | 108.9  | 96.7   | 99.2   | 99.2   |
| 72.5° | 179.0  | 169.3  | 147.5  | 120.9  | 94.3   | 70.1   | 65.4   | 62.9   | 62.9   |
| 75°   | 140.3  | 130.6  | 108.9  | 82.3   | 58.0   | 41.1   | 36.3   | 36.3   | 36.3   |
| 77.5° | 101.6  | 94.3   | 75.0   | 50.8   | 31.4   | 19.4   | 16.9   | 14.5   | 14.5   |
| 80°   | 70.1   | 62.9   | 46.0   | 26.6   | 12.1   | 7.2    | 7.2    | 7.2    | 7.2    |
| 82.5° | 41.1   | 33.8   | 21.8   | 12.1   | 4.8    | 2.5    | 2.5    | 2.5    | 2.5    |
| 85°   | 19.4   | 14.5   | 9.7    | 4.8    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 87.5° | 2.5    | 2.5    | 2.5    | 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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