

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: P582395

Luminaire Tested: **HCC6W35D010SL-HM63040935-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W35D010SL-HM63040935-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

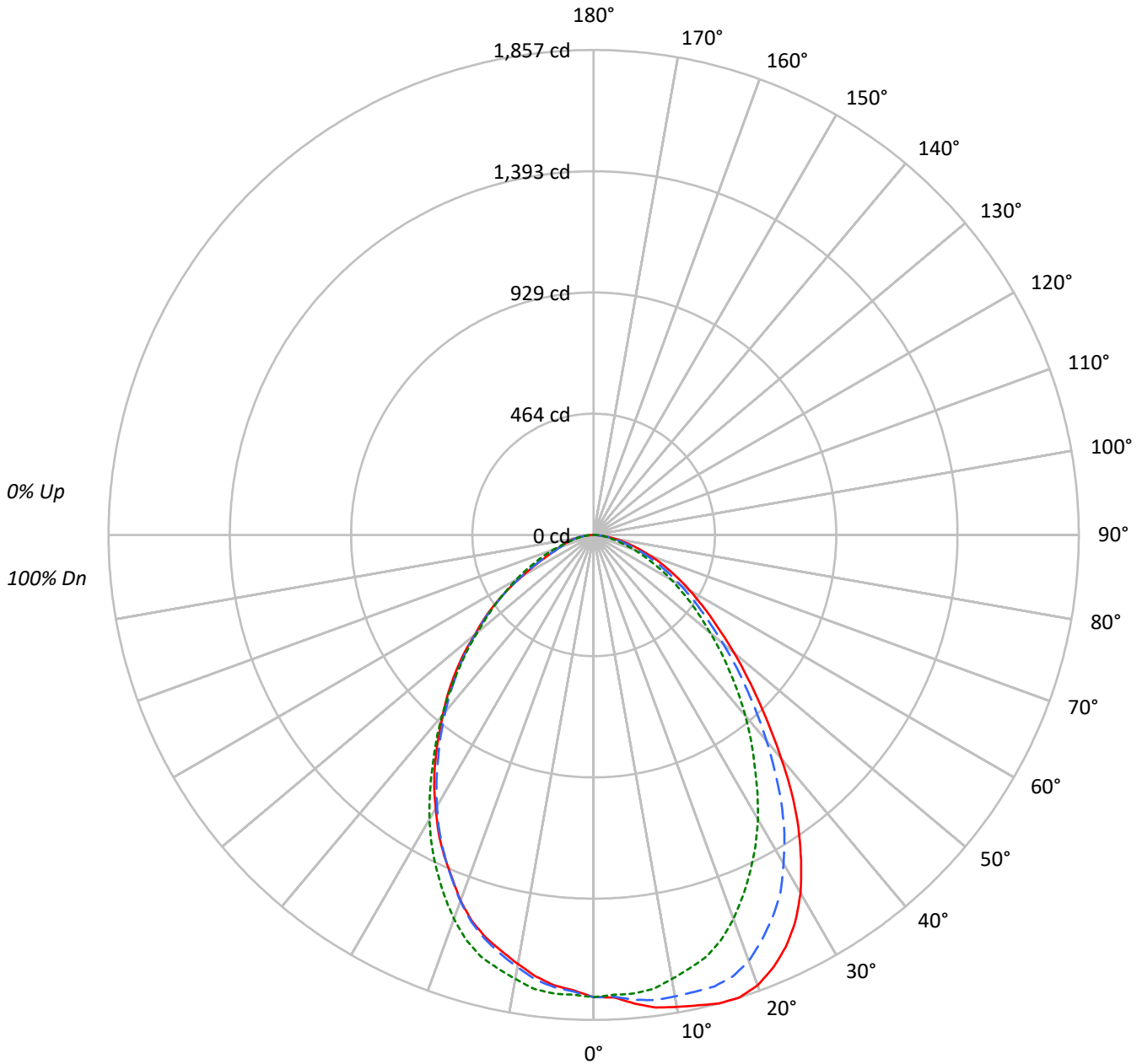
Lumens per Lamp: N/A  
Luminaire Lumens: 3466.1 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |    |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    |  |  |  |  |   |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 97026  | 97026 | 97026 |
| 5°  | 99130  | 96995 | 95267 |
| 10° | 102158 | 96096 | 92867 |
| 15° | 105387 | 94825 | 90568 |
| 20° | 107063 | 91265 | 86889 |
| 25° | 105302 | 85850 | 81906 |
| 30° | 100250 | 79588 | 76524 |
| 35° | 91424  | 71842 | 70711 |
| 40° | 79943  | 64542 | 64199 |
| 45° | 68798  | 56797 | 58115 |
| 50° | 59793  | 49491 | 50523 |
| 55° | 52223  | 43439 | 43908 |
| 60° | 46400  | 37640 | 34460 |
| 65° | 41405  | 31690 | 26345 |
| 70° | 36432  | 25966 | 22087 |
| 75° | 31242  | 20482 | 20990 |
| 80° | 25193  | 17584 | 20583 |
| 85° | 16731  | 15222 | 18304 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.6  | 4.8       |
| 10°-20°   | 477.1  | 13.8      |
| 20°-30°   | 681.0  | 19.6      |
| 30°-40°   | 713.3  | 20.6      |
| 40°-50°   | 600.6  | 17.3      |
| 50°-60°   | 427.5  | 12.3      |
| 60°-70°   | 250.2  | 7.2       |
| 70°-80°   | 118.4  | 3.4       |
| 80°-90°   | 30.5   | 0.9       |
| 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°    | 1325.6 | 38.2      |
| 0°-40°    | 2039.0 | 58.8      |
| 0°-60°    | 3067.0 | 88.5      |
| 0°-90°    | 3466.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3466.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1770 | 1770 | 1770 | 1770 | 1770 |      |
| 5°  | 1801 | 1787 | 1763 | 1738 | 1731 | 173  |
| 15° | 1857 | 1789 | 1671 | 1603 | 1596 | 524  |
| 25° | 1741 | 1618 | 1419 | 1352 | 1354 | 797  |
| 35° | 1366 | 1252 | 1074 | 1037 | 1057 | 848  |
| 45° | 887  | 822  | 733  | 735  | 750  | 689  |
| 55° | 546  | 500  | 454  | 454  | 459  | 492  |
| 65° | 319  | 283  | 244  | 206  | 203  | 318  |
| 75° | 148  | 123  | 97   | 94   | 99   | 158  |
| 85° | 27   | 22   | 24   | 29   | 29   | 35   |
| 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°    | 1769.9 | 1769.9 | 1769.9 | 1769.9 | 1769.9 | 1769.9 | 1769.9 | 1769.9 | 1769.9 |
| 2.5°  | 1772.3 | 1772.3 | 1769.9 | 1767.5 | 1762.6 | 1755.4 | 1750.5 | 1745.7 | 1745.7 |
| 5°    | 1801.4 | 1796.5 | 1786.8 | 1774.8 | 1762.6 | 1748.2 | 1738.5 | 1731.2 | 1731.2 |
| 7.5°  | 1825.5 | 1815.9 | 1796.5 | 1774.8 | 1753.0 | 1733.6 | 1716.7 | 1707.1 | 1704.6 |
| 10°   | 1835.2 | 1823.1 | 1794.0 | 1760.2 | 1726.3 | 1699.7 | 1680.5 | 1668.3 | 1668.3 |
| 12.5° | 1844.9 | 1830.3 | 1791.7 | 1743.3 | 1699.7 | 1663.6 | 1644.2 | 1634.5 | 1632.0 |
| 15°   | 1856.9 | 1837.6 | 1789.2 | 1728.8 | 1670.8 | 1629.7 | 1603.1 | 1595.8 | 1595.8 |
| 17.5° | 1856.9 | 1832.8 | 1772.3 | 1697.4 | 1624.8 | 1578.8 | 1554.7 | 1547.4 | 1549.9 |
| 20°   | 1835.2 | 1808.6 | 1736.0 | 1644.2 | 1564.4 | 1516.0 | 1491.9 | 1487.0 | 1489.4 |
| 22.5° | 1794.0 | 1762.6 | 1680.5 | 1581.3 | 1494.2 | 1443.5 | 1421.8 | 1421.8 | 1419.3 |
| 25°   | 1740.9 | 1707.1 | 1617.6 | 1513.6 | 1419.3 | 1368.5 | 1351.6 | 1354.1 | 1354.1 |
| 27.5° | 1670.8 | 1637.0 | 1547.4 | 1436.2 | 1341.9 | 1291.2 | 1279.0 | 1283.9 | 1286.3 |
| 30°   | 1583.7 | 1547.4 | 1453.1 | 1344.4 | 1257.3 | 1206.6 | 1199.3 | 1206.6 | 1208.9 |
| 32.5° | 1477.3 | 1450.7 | 1358.9 | 1247.6 | 1165.5 | 1122.0 | 1119.5 | 1126.7 | 1136.4 |
| 35°   | 1366.1 | 1337.1 | 1252.4 | 1150.9 | 1073.5 | 1037.2 | 1037.2 | 1049.4 | 1056.6 |
| 37.5° | 1245.2 | 1216.2 | 1138.9 | 1054.2 | 988.9  | 955.1  | 959.9  | 972.0  | 974.4  |
| 40°   | 1117.1 | 1095.3 | 1030.0 | 957.5  | 901.9  | 875.2  | 882.5  | 894.6  | 897.1  |
| 42.5° | 996.2  | 976.8  | 923.7  | 858.3  | 817.3  | 797.9  | 807.6  | 822.0  | 826.9  |
| 45°   | 887.4  | 865.6  | 822.0  | 766.5  | 732.6  | 723.0  | 735.1  | 744.7  | 749.6  |
| 47.5° | 788.2  | 768.9  | 732.6  | 681.9  | 657.7  | 652.8  | 665.0  | 669.7  | 674.6  |
| 50°   | 701.1  | 681.9  | 645.6  | 599.6  | 580.3  | 580.3  | 589.9  | 594.8  | 592.4  |
| 52.5° | 616.5  | 599.6  | 565.8  | 527.1  | 515.0  | 515.0  | 522.2  | 524.7  | 529.5  |
| 55°   | 546.4  | 529.5  | 500.5  | 464.2  | 454.5  | 449.8  | 454.5  | 454.5  | 459.4  |
| 57.5° | 481.2  | 466.7  | 440.1  | 406.2  | 394.1  | 389.3  | 386.9  | 384.4  | 389.3  |
| 60°   | 423.2  | 411.0  | 382.1  | 353.0  | 343.3  | 331.2  | 321.6  | 311.9  | 314.3  |
| 62.5° | 369.9  | 357.8  | 331.2  | 302.3  | 292.6  | 275.6  | 263.5  | 251.5  | 256.3  |
| 65°   | 319.2  | 307.0  | 282.9  | 258.7  | 244.3  | 224.9  | 205.5  | 198.3  | 203.1  |
| 67.5° | 273.2  | 263.5  | 239.4  | 215.2  | 203.1  | 181.4  | 162.0  | 162.0  | 164.4  |
| 70°   | 227.3  | 217.6  | 198.3  | 176.5  | 162.0  | 142.6  | 135.4  | 137.8  | 137.8  |
| 72.5° | 186.1  | 178.9  | 159.5  | 140.3  | 125.7  | 113.7  | 113.7  | 116.1  | 118.5  |
| 75°   | 147.5  | 142.6  | 123.4  | 106.4  | 96.7   | 89.5   | 94.3   | 96.7   | 99.1   |
| 77.5° | 113.7  | 106.4  | 91.8   | 79.8   | 72.6   | 74.9   | 79.8   | 82.2   | 84.6   |
| 80°   | 79.8   | 77.4   | 65.2   | 58.0   | 55.7   | 58.0   | 62.9   | 65.2   | 65.2   |
| 82.5° | 50.8   | 48.3   | 41.1   | 38.7   | 38.7   | 41.1   | 46.0   | 46.0   | 46.0   |
| 85°   | 26.6   | 24.2   | 21.7   | 21.7   | 24.2   | 26.6   | 29.1   | 29.1   | 29.1   |
| 87.5° | 9.7    | 7.2    | 9.7    | 9.7    | 12.1   | 12.1   | 12.1   | 12.1   | 12.1   |
| 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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