

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: P582250

Luminaire Tested: **HCC6S30D010MW-HM63040935-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582250  
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: HCC6S30D010MW-HM63040935-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

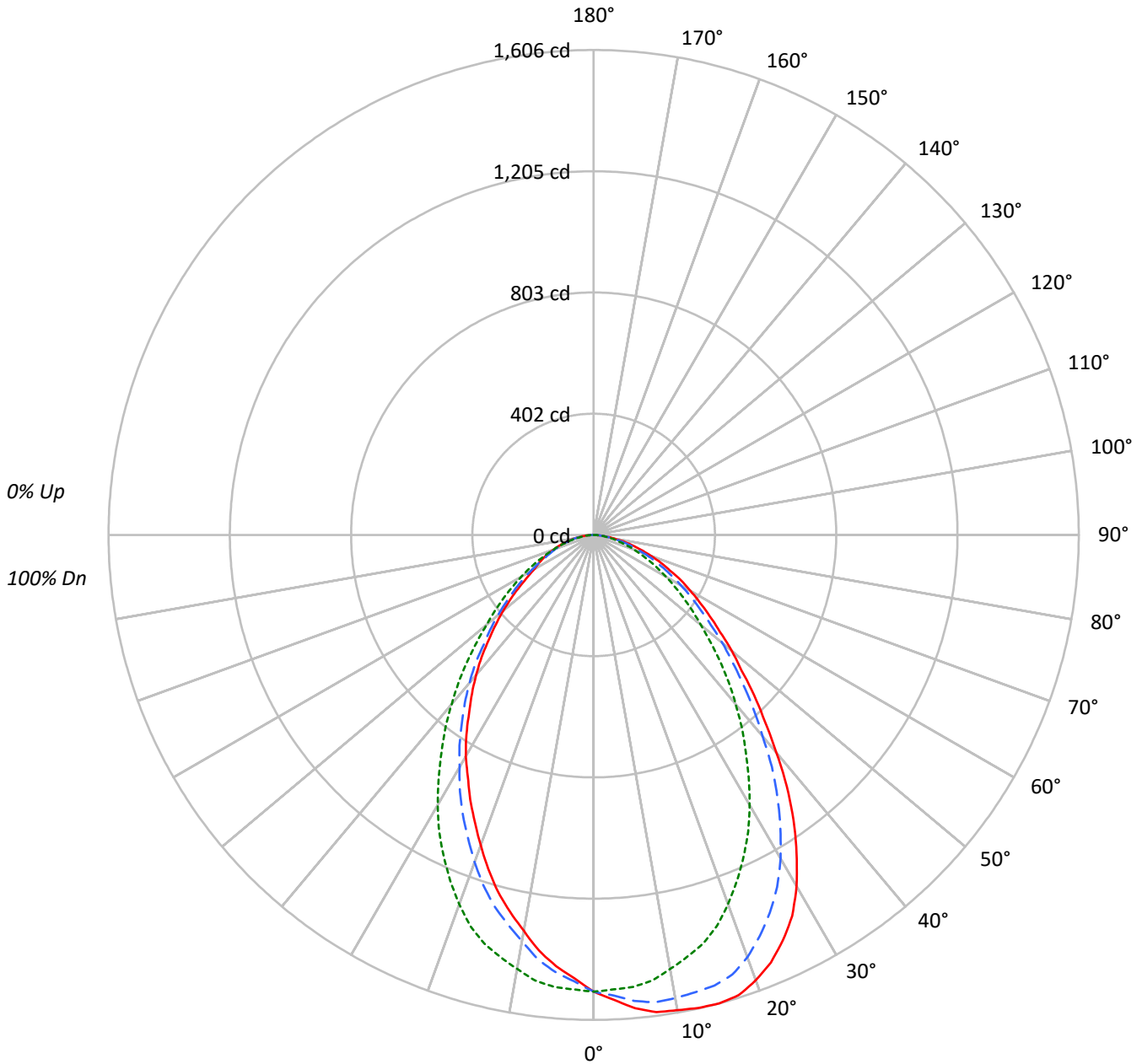
Lumens per Lamp: N/A  
Luminaire Lumens: 2817.5 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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°  | 82916 | 82916 | 82916 |
| 5°  | 86595 | 82676 | 78863 |
| 10° | 88954 | 81250 | 74108 |
| 15° | 91158 | 79484 | 69439 |
| 20° | 91568 | 75892 | 63776 |
| 25° | 89642 | 71048 | 58491 |
| 30° | 85051 | 65339 | 53603 |
| 35° | 77249 | 58718 | 48091 |
| 40° | 67305 | 52305 | 43267 |
| 45° | 58239 | 45764 | 38035 |
| 50° | 50873 | 39419 | 33329 |
| 55° | 44940 | 34637 | 28606 |
| 60° | 40402 | 30348 | 24768 |
| 65° | 36178 | 26410 | 24023 |
| 70° | 32297 | 22504 | 22504 |
| 75° | 28022 | 18957 | 21139 |
| 80° | 22478 | 16069 | 19289 |
| 85° | 15347 | 14089 | 16668 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.2  | 5.0       |
| 10°-20°   | 395.2  | 14.0      |
| 20°-30°   | 550.7  | 19.5      |
| 30°-40°   | 567.4  | 20.1      |
| 40°-50°   | 470.3  | 16.7      |
| 50°-60°   | 338.0  | 12.0      |
| 60°-70°   | 215.2  | 7.6       |
| 70°-80°   | 110.5  | 3.9       |
| 80°-90°   | 28.1   | 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°    | 1088.0 | 38.6      |
| 0°-40°    | 1655.4 | 58.8      |
| 0°-60°    | 2463.7 | 87.4      |
| 0°-90°    | 2817.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2817.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1512 | 1512 | 1512 | 1512 | 1512 |      |
| 5°  | 1574 | 1549 | 1502 | 1454 | 1433 | 151  |
| 15° | 1606 | 1545 | 1400 | 1272 | 1224 | 453  |
| 25° | 1482 | 1380 | 1175 | 1024 | 967  | 679  |
| 35° | 1154 | 1061 | 877  | 761  | 719  | 717  |
| 45° | 751  | 698  | 590  | 515  | 491  | 581  |
| 55° | 470  | 432  | 362  | 322  | 299  | 424  |
| 65° | 279  | 248  | 204  | 177  | 185  | 279  |
| 75° | 132  | 114  | 90   | 94   | 100  | 141  |
| 85° | 24   | 22   | 22   | 24   | 26   | 31   |
| 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°    | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 |
| 2.5°  | 1541.1 | 1534.9 | 1526.8 | 1518.7 | 1506.5 | 1492.2 | 1479.9 | 1475.9 | 1469.8 |
| 5°    | 1573.6 | 1565.4 | 1549.1 | 1528.8 | 1502.4 | 1475.9 | 1453.6 | 1439.3 | 1433.1 |
| 7.5°  | 1594.0 | 1583.7 | 1561.4 | 1526.8 | 1488.2 | 1449.4 | 1416.8 | 1396.5 | 1388.4 |
| 10°   | 1598.0 | 1587.9 | 1557.4 | 1510.5 | 1459.6 | 1406.7 | 1365.9 | 1341.5 | 1331.3 |
| 12.5° | 1604.2 | 1589.9 | 1551.2 | 1496.2 | 1431.1 | 1370.1 | 1319.2 | 1288.6 | 1278.4 |
| 15°   | 1606.2 | 1589.9 | 1545.1 | 1477.9 | 1400.5 | 1327.3 | 1272.3 | 1235.7 | 1223.5 |
| 17.5° | 1598.0 | 1579.7 | 1526.8 | 1445.3 | 1357.8 | 1280.4 | 1215.3 | 1176.6 | 1160.3 |
| 20°   | 1569.6 | 1549.1 | 1488.2 | 1396.5 | 1300.9 | 1219.4 | 1152.3 | 1111.5 | 1093.2 |
| 22.5° | 1532.9 | 1506.5 | 1437.3 | 1339.5 | 1239.8 | 1154.3 | 1087.1 | 1046.3 | 1028.0 |
| 25°   | 1482.0 | 1457.6 | 1380.2 | 1276.4 | 1174.6 | 1085.1 | 1024.0 | 981.2  | 967.0  |
| 27.5° | 1423.0 | 1394.5 | 1315.0 | 1211.2 | 1107.4 | 1017.9 | 958.8  | 920.2  | 901.9  |
| 30°   | 1343.6 | 1317.1 | 1237.7 | 1133.9 | 1032.2 | 948.7  | 887.6  | 855.0  | 846.8  |
| 32.5° | 1249.9 | 1227.5 | 1150.2 | 1052.5 | 954.8  | 877.4  | 826.5  | 791.9  | 783.8  |
| 35°   | 1154.3 | 1127.8 | 1060.6 | 969.0  | 877.4  | 808.2  | 761.3  | 730.9  | 718.6  |
| 37.5° | 1050.5 | 1026.0 | 969.0  | 887.6  | 806.1  | 741.0  | 700.3  | 673.8  | 661.6  |
| 40°   | 940.5  | 922.2  | 869.3  | 804.1  | 730.9  | 673.8  | 639.2  | 616.9  | 604.6  |
| 42.5° | 838.7  | 820.4  | 783.8  | 722.7  | 661.6  | 610.7  | 580.2  | 559.8  | 549.7  |
| 45°   | 751.2  | 734.9  | 698.3  | 645.3  | 590.3  | 547.7  | 515.1  | 500.8  | 490.6  |
| 47.5° | 663.7  | 655.5  | 622.9  | 574.0  | 523.2  | 486.5  | 464.2  | 447.9  | 439.7  |
| 50°   | 596.5  | 586.3  | 555.7  | 504.8  | 462.2  | 433.6  | 413.3  | 399.0  | 390.8  |
| 52.5° | 527.2  | 517.1  | 488.6  | 445.9  | 411.3  | 384.8  | 364.4  | 352.2  | 344.1  |
| 55°   | 470.2  | 462.2  | 431.6  | 392.8  | 362.4  | 339.9  | 321.6  | 307.4  | 299.3  |
| 57.5° | 417.3  | 409.1  | 380.7  | 344.1  | 317.6  | 297.2  | 281.0  | 268.7  | 258.5  |
| 60°   | 368.5  | 362.4  | 333.9  | 299.3  | 276.8  | 256.5  | 242.2  | 232.1  | 225.9  |
| 62.5° | 325.7  | 313.5  | 289.0  | 258.5  | 238.2  | 221.9  | 207.6  | 201.5  | 205.6  |
| 65°   | 278.9  | 272.8  | 248.4  | 221.9  | 203.6  | 187.3  | 177.2  | 181.2  | 185.2  |
| 67.5° | 240.2  | 232.1  | 211.8  | 187.3  | 171.0  | 158.7  | 152.7  | 160.9  | 162.9  |
| 70°   | 201.5  | 193.5  | 175.0  | 154.7  | 140.4  | 132.3  | 132.3  | 138.4  | 140.4  |
| 72.5° | 164.9  | 158.7  | 142.4  | 126.3  | 116.0  | 110.0  | 114.0  | 118.1  | 120.1  |
| 75°   | 132.3  | 126.3  | 114.0  | 99.8   | 89.5   | 89.5   | 93.7   | 97.7   | 99.8   |
| 77.5° | 101.8  | 97.7   | 85.5   | 75.3   | 71.2   | 71.2   | 75.3   | 77.4   | 79.4   |
| 80°   | 71.2   | 67.2   | 61.1   | 54.9   | 50.9   | 54.9   | 59.1   | 59.1   | 61.1   |
| 82.5° | 46.8   | 44.8   | 40.7   | 36.6   | 36.6   | 38.6   | 40.7   | 42.8   | 42.8   |
| 85°   | 24.4   | 24.4   | 22.4   | 20.3   | 22.4   | 24.4   | 24.4   | 26.5   | 26.5   |
| 87.5° | 8.1    | 8.1    | 8.1    | 8.1    | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   |
| 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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