

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: P582161

Luminaire Tested: **HCC6W30D010BZ-HM63040830-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582161  
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: HCC6W30D010BZ-HM63040830-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

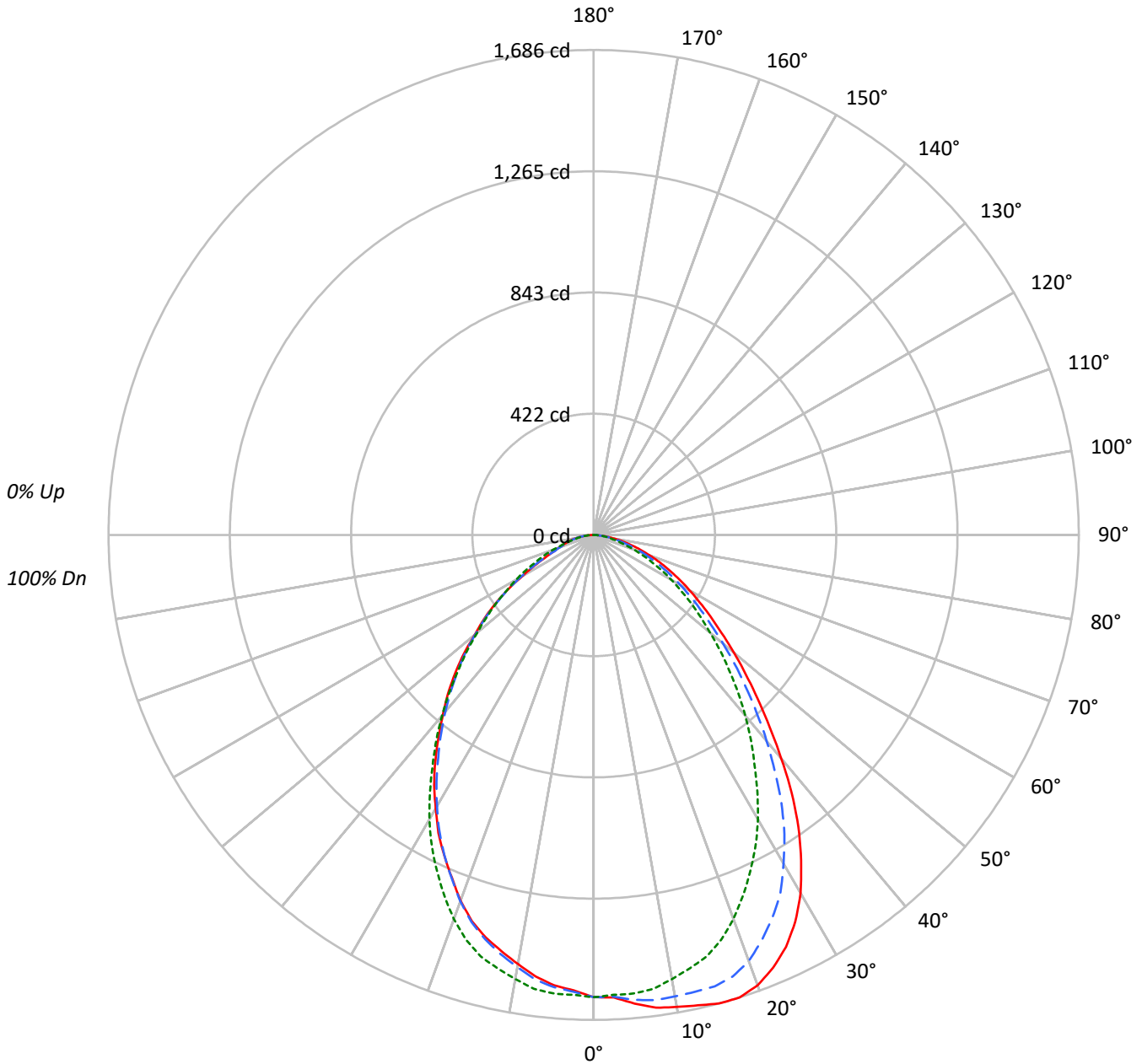
Lumens per Lamp: N/A  
Luminaire Lumens: 3147.2 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |    |    |    |  |  |  |  |   |
| 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°  | 88101 | 88101 | 88101 |
| 5°  | 90006 | 88075 | 86506 |
| 10° | 92762 | 87262 | 84328 |
| 15° | 95693 | 86096 | 82237 |
| 20° | 97215 | 82870 | 78897 |
| 25° | 95618 | 77956 | 74363 |
| 30° | 91027 | 72271 | 69485 |
| 35° | 83018 | 65230 | 64206 |
| 40° | 72586 | 58603 | 58288 |
| 45° | 62472 | 51571 | 52765 |
| 50° | 54301 | 44945 | 45875 |
| 55° | 47425 | 39444 | 39865 |
| 60° | 42124 | 34186 | 31291 |
| 65° | 37592 | 28758 | 23920 |
| 70° | 33083 | 23578 | 20051 |
| 75° | 28361 | 18618 | 19063 |
| 80° | 22856 | 15943 | 18721 |
| 85° | 15159 | 13838 | 16605 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.2  | 4.8       |
| 10°-20°   | 433.2  | 13.8      |
| 20°-30°   | 618.4  | 19.6      |
| 30°-40°   | 647.7  | 20.6      |
| 40°-50°   | 545.3  | 17.3      |
| 50°-60°   | 388.1  | 12.3      |
| 60°-70°   | 227.2  | 7.2       |
| 70°-80°   | 107.5  | 3.4       |
| 80°-90°   | 27.6   | 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°    | 1203.7 | 38.2      |
| 0°-40°    | 1851.4 | 58.8      |
| 0°-60°    | 2784.9 | 88.5      |
| 0°-90°    | 3147.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3147.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1607 | 1607 | 1607 | 1607 | 1607 |      |
| 5°  | 1636 | 1622 | 1600 | 1578 | 1572 | 157  |
| 15° | 1686 | 1625 | 1517 | 1456 | 1449 | 476  |
| 25° | 1581 | 1469 | 1289 | 1227 | 1229 | 724  |
| 35° | 1240 | 1137 | 975  | 942  | 959  | 770  |
| 45° | 806  | 746  | 665  | 667  | 681  | 626  |
| 55° | 496  | 454  | 413  | 413  | 417  | 447  |
| 65° | 290  | 257  | 222  | 187  | 184  | 289  |
| 75° | 134  | 112  | 88   | 86   | 90   | 144  |
| 85° | 24   | 20   | 22   | 26   | 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°    | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 |
| 2.5°  | 1609.3 | 1609.3 | 1607.1 | 1604.9 | 1600.5 | 1593.9 | 1589.5 | 1585.1 | 1585.1 |
| 5°    | 1635.6 | 1631.2 | 1622.4 | 1611.5 | 1600.5 | 1587.3 | 1578.5 | 1572.0 | 1572.0 |
| 7.5°  | 1657.6 | 1648.8 | 1631.2 | 1611.5 | 1591.7 | 1574.1 | 1558.8 | 1550.0 | 1547.8 |
| 10°   | 1666.4 | 1655.3 | 1629.0 | 1598.3 | 1567.6 | 1543.4 | 1525.8 | 1514.9 | 1514.9 |
| 12.5° | 1675.2 | 1662.0 | 1626.8 | 1582.9 | 1543.4 | 1510.5 | 1492.9 | 1484.1 | 1482.0 |
| 15°   | 1686.1 | 1668.5 | 1624.6 | 1569.7 | 1517.0 | 1479.7 | 1455.6 | 1449.0 | 1449.0 |
| 17.5° | 1686.1 | 1664.1 | 1609.3 | 1541.2 | 1475.3 | 1433.6 | 1411.7 | 1405.0 | 1407.3 |
| 20°   | 1666.4 | 1642.2 | 1576.4 | 1492.9 | 1420.5 | 1376.5 | 1354.6 | 1350.2 | 1352.4 |
| 22.5° | 1629.0 | 1600.5 | 1525.8 | 1435.8 | 1356.8 | 1310.6 | 1290.9 | 1290.9 | 1288.8 |
| 25°   | 1580.8 | 1550.0 | 1468.8 | 1374.4 | 1288.8 | 1242.6 | 1227.3 | 1229.4 | 1229.4 |
| 27.5° | 1517.0 | 1486.4 | 1405.0 | 1304.1 | 1218.5 | 1172.4 | 1161.4 | 1165.8 | 1168.0 |
| 30°   | 1438.0 | 1405.0 | 1319.4 | 1220.6 | 1141.7 | 1095.5 | 1088.9 | 1095.5 | 1097.7 |
| 32.5° | 1341.4 | 1317.3 | 1233.8 | 1132.9 | 1058.2 | 1018.7 | 1016.5 | 1023.1 | 1031.8 |
| 35°   | 1240.5 | 1214.1 | 1137.3 | 1045.0 | 974.7  | 941.8  | 941.8  | 952.9  | 959.4  |
| 37.5° | 1130.6 | 1104.3 | 1034.1 | 957.3  | 897.9  | 867.3  | 871.5  | 882.6  | 884.7  |
| 40°   | 1014.3 | 994.5  | 935.3  | 869.4  | 818.9  | 794.7  | 801.4  | 812.3  | 814.5  |
| 42.5° | 904.5  | 887.0  | 838.7  | 779.4  | 742.1  | 724.5  | 733.3  | 746.5  | 750.9  |
| 45°   | 805.8  | 785.9  | 746.5  | 695.9  | 665.2  | 656.4  | 667.4  | 676.2  | 680.6  |
| 47.5° | 715.7  | 698.2  | 665.2  | 619.1  | 597.1  | 592.7  | 603.8  | 608.2  | 612.6  |
| 50°   | 636.7  | 619.1  | 586.2  | 544.4  | 527.0  | 527.0  | 535.6  | 540.0  | 537.9  |
| 52.5° | 559.8  | 544.4  | 513.8  | 478.6  | 467.6  | 467.6  | 474.2  | 476.4  | 480.8  |
| 55°   | 496.2  | 480.8  | 454.4  | 421.5  | 412.7  | 408.3  | 412.7  | 412.7  | 417.1  |
| 57.5° | 436.8  | 423.8  | 399.6  | 368.8  | 357.9  | 353.5  | 351.2  | 349.1  | 353.5  |
| 60°   | 384.2  | 373.2  | 346.8  | 320.6  | 311.8  | 300.8  | 292.0  | 283.2  | 285.4  |
| 62.5° | 335.9  | 325.0  | 300.8  | 274.4  | 265.6  | 250.3  | 239.3  | 228.3  | 232.7  |
| 65°   | 289.8  | 278.8  | 256.8  | 234.9  | 221.7  | 204.2  | 186.6  | 180.0  | 184.4  |
| 67.5° | 248.1  | 239.3  | 217.3  | 195.4  | 184.4  | 164.7  | 147.1  | 147.1  | 149.3  |
| 70°   | 206.4  | 197.6  | 180.0  | 160.3  | 147.1  | 129.5  | 122.9  | 125.1  | 125.1  |
| 72.5° | 169.1  | 162.4  | 144.9  | 127.3  | 114.1  | 103.2  | 103.2  | 105.3  | 107.6  |
| 75°   | 133.9  | 129.5  | 112.0  | 96.5   | 87.9   | 81.2   | 85.6   | 87.9   | 90.0   |
| 77.5° | 103.2  | 96.5   | 83.5   | 72.4   | 65.9   | 68.0   | 72.4   | 74.7   | 76.8   |
| 80°   | 72.4   | 70.3   | 59.3   | 52.7   | 50.5   | 52.7   | 57.1   | 59.3   | 59.3   |
| 82.5° | 46.1   | 43.9   | 37.3   | 35.1   | 35.1   | 37.3   | 41.7   | 41.7   | 41.7   |
| 85°   | 24.1   | 22.0   | 19.7   | 19.7   | 22.0   | 24.1   | 26.4   | 26.4   | 26.4   |
| 87.5° | 8.8    | 6.5    | 8.8    | 8.8    | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   |
| 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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