

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: P582160

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582160  
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: HCC6W30D010BZ-HM63040830-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

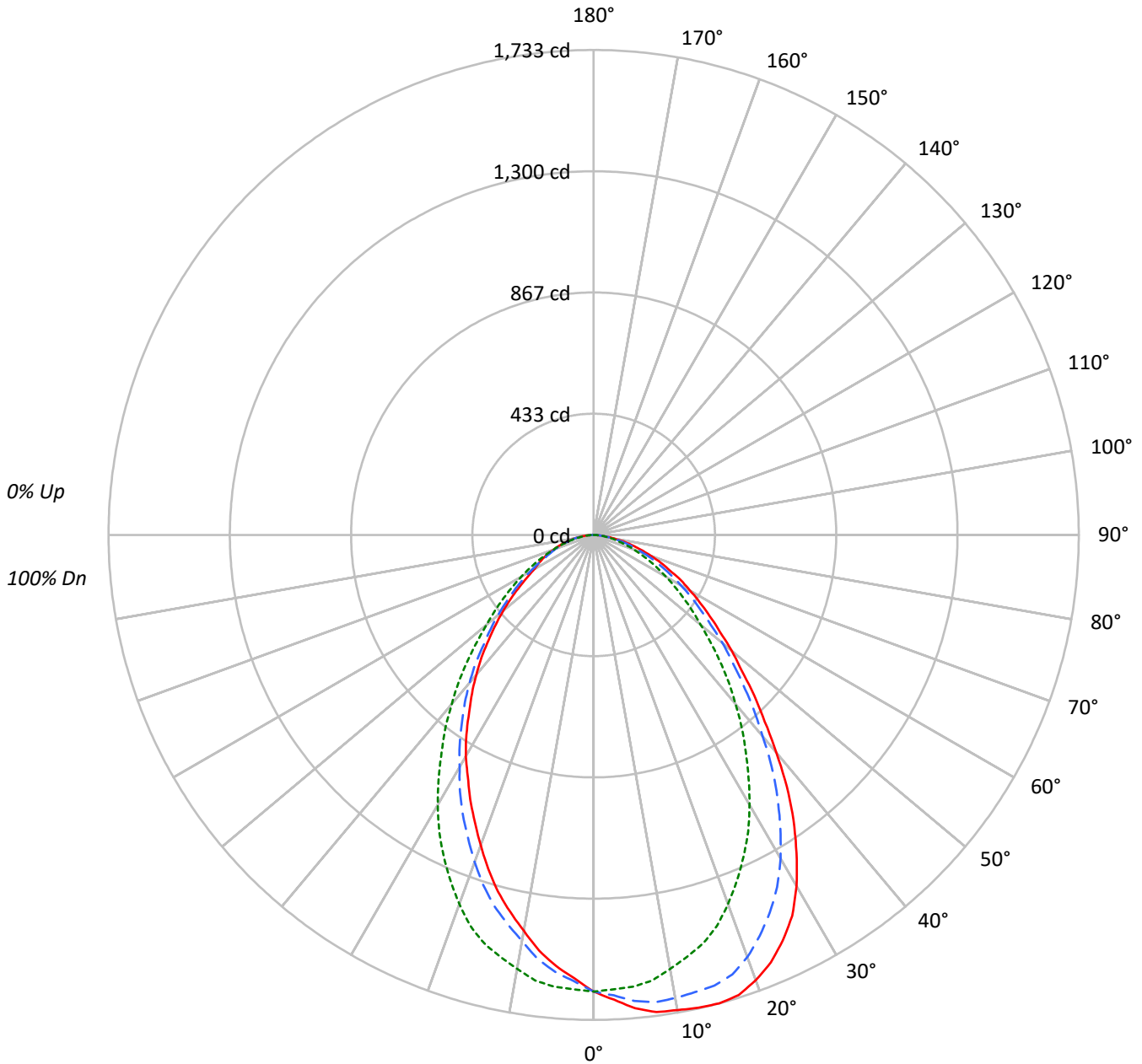
Lumens per Lamp: N/A  
Luminaire Lumens: 3039.6 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  |     |     |     |     |     |     |     |   |  |   |
| 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 | 102 | 102 | 102 | 102 | 100 |   |  |   |
|     | 1  | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 89  | 89  | 89  | 89  | 87  |   |  |   |
|     | 2  | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 78  | 78  | 78  | 78  | 76  |   |  |   |
|     | 3  | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 68  | 68  | 68  | 68  | 66  |   |  |   |
|     | 4  | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 60  | 60  | 60  | 60  | 58  |   |  |   |
|     | 5  | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 53  | 53  | 53  | 53  | 51  |   |  |   |
|     | 6  | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 48  | 48  | 48  | 48  | 46  |   |  |   |
|     | 7  | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 43  | 43  | 43  | 43  | 42  |   |  |   |
|     | 8  | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 39  | 39  | 39  | 39  | 38  |   |  |   |
|     | 9  | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 36  | 36  | 36  | 36  | 34  |   |  |   |
|     | 10 | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 33  | 33  | 33  | 33  | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 89456 | 89456 | 89456 |
| 5°  | 93424 | 89186 | 85081 |
| 10° | 95968 | 87657 | 79953 |
| 15° | 98338 | 85755 | 74910 |
| 20° | 98784 | 81872 | 68804 |
| 25° | 96707 | 76650 | 63100 |
| 30° | 91755 | 70486 | 57832 |
| 35° | 83333 | 63349 | 51879 |
| 40° | 72615 | 56420 | 46680 |
| 45° | 62828 | 49377 | 41028 |
| 50° | 54881 | 42515 | 35956 |
| 55° | 48486 | 37361 | 30852 |
| 60° | 43582 | 32750 | 26719 |
| 65° | 39031 | 28486 | 25930 |
| 70° | 34862 | 24283 | 24283 |
| 75° | 30246 | 20482 | 22791 |
| 80° | 24246 | 17332 | 20804 |
| 85° | 16605 | 15159 | 17926 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.4  | 5.0       |
| 10°-20°   | 426.3  | 14.0      |
| 20°-30°   | 594.1  | 19.5      |
| 30°-40°   | 612.1  | 20.1      |
| 40°-50°   | 507.3  | 16.7      |
| 50°-60°   | 364.6  | 12.0      |
| 60°-70°   | 232.2  | 7.6       |
| 70°-80°   | 119.2  | 3.9       |
| 80°-90°   | 30.3   | 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°    | 1173.8 | 38.6      |
| 0°-40°    | 1785.9 | 58.8      |
| 0°-60°    | 2657.8 | 87.4      |
| 0°-90°    | 3039.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3039.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1632 | 1632 | 1632 | 1632 | 1632 |      |
| 5°  | 1698 | 1671 | 1621 | 1568 | 1546 | 163  |
| 15° | 1733 | 1667 | 1511 | 1373 | 1320 | 488  |
| 25° | 1599 | 1489 | 1267 | 1105 | 1043 | 733  |
| 35° | 1245 | 1144 | 947  | 821  | 775  | 773  |
| 45° | 810  | 753  | 637  | 556  | 529  | 627  |
| 55° | 507  | 466  | 391  | 347  | 323  | 457  |
| 65° | 301  | 268  | 220  | 191  | 200  | 301  |
| 75° | 143  | 123  | 97   | 101  | 108  | 152  |
| 85° | 26   | 24   | 24   | 26   | 28   | 34   |
| 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°    | 1631.8 | 1631.8 | 1631.8 | 1631.8 | 1631.8 | 1631.8 | 1631.8 | 1631.8 | 1631.8 |
| 2.5°  | 1662.5 | 1655.9 | 1647.1 | 1638.3 | 1625.1 | 1609.8 | 1596.6 | 1592.2 | 1585.7 |
| 5°    | 1697.7 | 1688.9 | 1671.3 | 1649.4 | 1620.7 | 1592.2 | 1568.1 | 1552.7 | 1546.1 |
| 7.5°  | 1719.7 | 1708.6 | 1684.5 | 1647.1 | 1605.4 | 1563.7 | 1528.6 | 1506.6 | 1497.8 |
| 10°   | 1724.0 | 1713.0 | 1680.1 | 1629.5 | 1574.7 | 1517.5 | 1473.6 | 1447.3 | 1436.3 |
| 12.5° | 1730.6 | 1715.3 | 1673.5 | 1614.2 | 1543.9 | 1478.0 | 1423.1 | 1390.2 | 1379.2 |
| 15°   | 1732.7 | 1715.3 | 1666.9 | 1594.4 | 1511.0 | 1431.9 | 1372.6 | 1333.1 | 1319.9 |
| 17.5° | 1724.0 | 1704.2 | 1647.1 | 1559.3 | 1464.8 | 1381.4 | 1311.1 | 1269.4 | 1251.8 |
| 20°   | 1693.3 | 1671.3 | 1605.4 | 1506.6 | 1403.4 | 1315.5 | 1243.0 | 1199.1 | 1179.4 |
| 22.5° | 1653.8 | 1625.1 | 1550.5 | 1445.1 | 1337.5 | 1245.2 | 1172.7 | 1128.8 | 1109.1 |
| 25°   | 1598.8 | 1572.5 | 1489.0 | 1377.0 | 1267.2 | 1170.6 | 1104.7 | 1058.6 | 1043.2 |
| 27.5° | 1535.1 | 1504.4 | 1418.7 | 1306.7 | 1194.7 | 1098.0 | 1034.4 | 992.7  | 973.0  |
| 30°   | 1449.5 | 1421.0 | 1335.2 | 1223.2 | 1113.5 | 1023.4 | 957.5  | 922.4  | 913.6  |
| 32.5° | 1348.4 | 1324.3 | 1240.8 | 1135.4 | 1030.0 | 946.6  | 891.6  | 854.3  | 845.5  |
| 35°   | 1245.2 | 1216.7 | 1144.2 | 1045.4 | 946.6  | 871.9  | 821.4  | 788.4  | 775.2  |
| 37.5° | 1133.2 | 1106.8 | 1045.4 | 957.5  | 869.6  | 799.4  | 755.5  | 727.0  | 713.8  |
| 40°   | 1014.7 | 994.8  | 937.8  | 867.5  | 788.4  | 727.0  | 689.6  | 665.5  | 652.3  |
| 42.5° | 904.8  | 885.1  | 845.5  | 779.6  | 713.8  | 658.8  | 625.9  | 603.9  | 593.0  |
| 45°   | 810.4  | 792.8  | 753.2  | 696.2  | 636.9  | 590.8  | 555.6  | 540.3  | 529.2  |
| 47.5° | 715.9  | 707.2  | 672.0  | 619.4  | 564.4  | 524.9  | 500.7  | 483.2  | 474.4  |
| 50°   | 643.5  | 632.5  | 599.6  | 544.7  | 498.5  | 467.8  | 445.9  | 430.4  | 421.6  |
| 52.5° | 568.8  | 557.9  | 527.1  | 481.0  | 443.6  | 415.1  | 393.1  | 379.9  | 371.2  |
| 55°   | 507.3  | 498.5  | 465.6  | 423.9  | 390.9  | 366.8  | 347.0  | 331.6  | 322.8  |
| 57.5° | 450.3  | 441.5  | 410.7  | 371.2  | 342.6  | 320.7  | 303.1  | 289.9  | 278.9  |
| 60°   | 397.5  | 390.9  | 360.1  | 322.8  | 298.7  | 276.7  | 261.3  | 250.4  | 243.7  |
| 62.5° | 351.3  | 338.3  | 311.9  | 278.9  | 256.9  | 239.3  | 224.0  | 217.5  | 221.9  |
| 65°   | 300.9  | 294.3  | 267.9  | 239.3  | 219.6  | 202.0  | 191.1  | 195.5  | 199.9  |
| 67.5° | 259.2  | 250.4  | 228.4  | 202.0  | 184.5  | 171.3  | 164.7  | 173.5  | 175.7  |
| 70°   | 217.5  | 208.7  | 188.8  | 166.9  | 151.5  | 142.8  | 142.8  | 149.3  | 151.5  |
| 72.5° | 177.9  | 171.3  | 153.7  | 136.1  | 125.2  | 118.5  | 122.9  | 127.3  | 129.6  |
| 75°   | 142.8  | 136.1  | 122.9  | 107.6  | 96.7   | 96.7   | 101.1  | 105.5  | 107.6  |
| 77.5° | 109.9  | 105.5  | 92.3   | 81.2   | 76.8   | 76.8   | 81.2   | 83.5   | 85.6   |
| 80°   | 76.8   | 72.5   | 65.9   | 59.3   | 54.9   | 59.3   | 63.7   | 63.7   | 65.9   |
| 82.5° | 50.5   | 48.3   | 43.9   | 39.5   | 39.5   | 41.7   | 43.9   | 46.1   | 46.1   |
| 85°   | 26.4   | 26.4   | 24.1   | 22.0   | 24.1   | 26.4   | 26.4   | 28.5   | 28.5   |
| 87.5° | 8.8    | 8.8    | 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





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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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