

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: P582197

Luminaire Tested: **HCC6W30D010BZ-HM63040840-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582197  
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-HM63040840-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

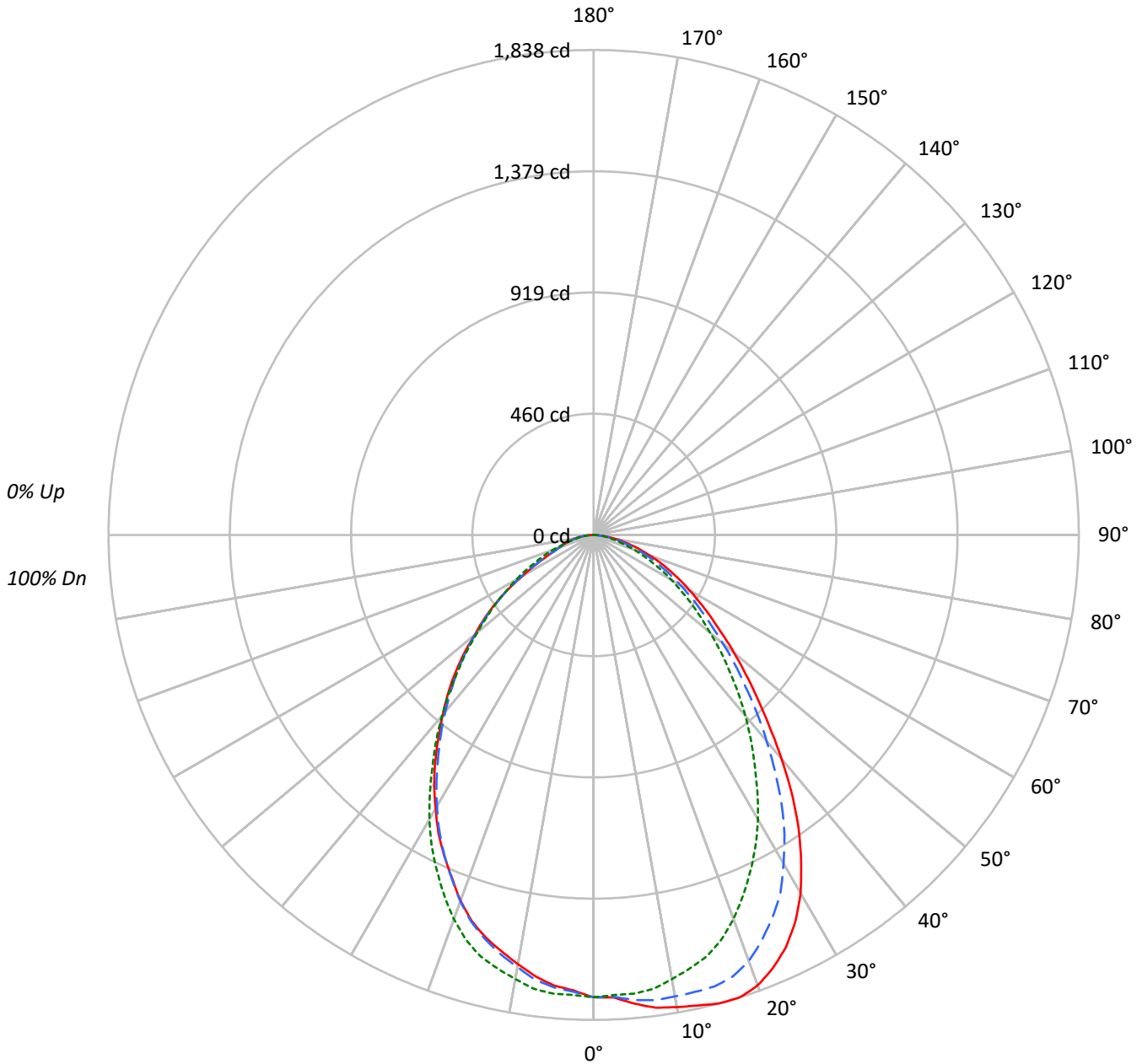
Lumens per Lamp: N/A  
Luminaire Lumens: 3431.6 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 | 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°  | 96061  | 96061 | 96061 |
| 5°  | 98140  | 96032 | 94326 |
| 10° | 101139 | 95144 | 91949 |
| 15° | 104337 | 93877 | 89666 |
| 20° | 105995 | 90355 | 86026 |
| 25° | 104256 | 84997 | 81089 |
| 30° | 99249  | 78797 | 75771 |
| 35° | 90513  | 71126 | 70008 |
| 40° | 79148  | 63898 | 63555 |
| 45° | 68116  | 56231 | 57533 |
| 50° | 59213  | 48996 | 50020 |
| 55° | 51707  | 43009 | 43468 |
| 60° | 45928  | 37267 | 34120 |
| 65° | 40990  | 31352 | 26086 |
| 70° | 36080  | 25709 | 21879 |
| 75° | 30924  | 20270 | 20778 |
| 80° | 24908  | 17395 | 20426 |
| 85° | 16542  | 15033 | 18115 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.9  | 4.8       |
| 10°-20°   | 472.3  | 13.8      |
| 20°-30°   | 674.2  | 19.6      |
| 30°-40°   | 706.2  | 20.6      |
| 40°-50°   | 594.6  | 17.3      |
| 50°-60°   | 423.2  | 12.3      |
| 60°-70°   | 247.7  | 7.2       |
| 70°-80°   | 117.2  | 3.4       |
| 80°-90°   | 30.2   | 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°    | 1312.5 | 38.2      |
| 0°-40°    | 2018.7 | 58.8      |
| 0°-60°    | 3036.5 | 88.5      |
| 0°-90°    | 3431.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3431.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1752 | 1752 | 1752 | 1752 | 1752 |      |
| 5°  | 1783 | 1769 | 1745 | 1721 | 1714 | 171  |
| 15° | 1838 | 1772 | 1654 | 1587 | 1580 | 519  |
| 25° | 1724 | 1602 | 1405 | 1338 | 1341 | 789  |
| 35° | 1352 | 1240 | 1063 | 1027 | 1046 | 840  |
| 45° | 879  | 814  | 725  | 728  | 742  | 682  |
| 55° | 541  | 496  | 450  | 450  | 455  | 488  |
| 65° | 316  | 280  | 242  | 203  | 201  | 315  |
| 75° | 146  | 122  | 96   | 93   | 98   | 157  |
| 85° | 26   | 22   | 24   | 29   | 29   | 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°    | 1752.3 | 1752.3 | 1752.3 | 1752.3 | 1752.3 | 1752.3 | 1752.3 | 1752.3 | 1752.3 |
| 2.5°  | 1754.7 | 1754.7 | 1752.3 | 1750.0 | 1745.1 | 1738.0 | 1733.2 | 1728.3 | 1728.3 |
| 5°    | 1783.4 | 1778.6 | 1769.1 | 1757.1 | 1745.1 | 1730.7 | 1721.2 | 1714.1 | 1714.1 |
| 7.5°  | 1807.4 | 1797.8 | 1778.6 | 1757.1 | 1735.6 | 1716.4 | 1699.7 | 1690.0 | 1687.7 |
| 10°   | 1816.9 | 1805.0 | 1776.2 | 1742.7 | 1709.2 | 1682.9 | 1663.8 | 1651.8 | 1651.8 |
| 12.5° | 1826.5 | 1812.2 | 1773.9 | 1726.0 | 1682.9 | 1647.0 | 1627.9 | 1618.2 | 1615.9 |
| 15°   | 1838.4 | 1819.3 | 1771.5 | 1711.6 | 1654.1 | 1613.5 | 1587.1 | 1579.9 | 1579.9 |
| 17.5° | 1838.4 | 1814.5 | 1754.7 | 1680.5 | 1608.7 | 1563.2 | 1539.3 | 1532.0 | 1534.5 |
| 20°   | 1816.9 | 1790.6 | 1718.8 | 1627.9 | 1548.8 | 1501.0 | 1477.0 | 1472.2 | 1474.6 |
| 22.5° | 1776.2 | 1745.1 | 1663.8 | 1565.6 | 1479.4 | 1429.2 | 1407.5 | 1407.5 | 1405.2 |
| 25°   | 1723.6 | 1690.0 | 1601.5 | 1498.6 | 1405.2 | 1355.0 | 1338.2 | 1340.6 | 1340.6 |
| 27.5° | 1654.1 | 1620.6 | 1532.0 | 1421.9 | 1328.6 | 1278.3 | 1266.4 | 1271.2 | 1273.5 |
| 30°   | 1567.9 | 1532.0 | 1438.7 | 1331.0 | 1244.8 | 1194.6 | 1187.3 | 1194.6 | 1197.0 |
| 32.5° | 1462.7 | 1436.3 | 1345.4 | 1235.3 | 1153.8 | 1110.8 | 1108.4 | 1115.5 | 1125.2 |
| 35°   | 1352.5 | 1323.8 | 1240.0 | 1139.4 | 1062.8 | 1026.9 | 1026.9 | 1038.9 | 1046.1 |
| 37.5° | 1232.9 | 1204.1 | 1127.5 | 1043.7 | 979.1  | 945.6  | 950.4  | 962.4  | 964.8  |
| 40°   | 1106.0 | 1084.4 | 1019.8 | 948.0  | 892.9  | 866.5  | 873.8  | 885.7  | 888.1  |
| 42.5° | 986.3  | 967.1  | 914.5  | 849.8  | 809.1  | 790.0  | 799.6  | 813.9  | 818.7  |
| 45°   | 878.6  | 857.0  | 813.9  | 758.8  | 725.3  | 715.8  | 727.8  | 737.3  | 742.1  |
| 47.5° | 780.3  | 761.2  | 725.3  | 675.1  | 651.1  | 646.3  | 658.3  | 663.1  | 667.9  |
| 50°   | 694.3  | 675.1  | 639.2  | 593.7  | 574.5  | 574.5  | 584.2  | 588.9  | 586.5  |
| 52.5° | 610.4  | 593.7  | 560.1  | 521.9  | 509.8  | 509.8  | 517.1  | 519.5  | 524.2  |
| 55°   | 541.0  | 524.2  | 495.6  | 459.7  | 450.0  | 445.3  | 450.0  | 450.0  | 454.8  |
| 57.5° | 476.4  | 462.0  | 435.6  | 402.1  | 390.2  | 385.4  | 383.0  | 380.6  | 385.4  |
| 60°   | 418.9  | 407.0  | 378.2  | 349.4  | 339.9  | 327.9  | 318.4  | 308.8  | 311.2  |
| 62.5° | 366.2  | 354.3  | 327.9  | 299.3  | 289.6  | 272.9  | 261.0  | 249.0  | 253.7  |
| 65°   | 316.0  | 304.0  | 280.1  | 256.1  | 241.7  | 222.6  | 203.4  | 196.3  | 201.1  |
| 67.5° | 270.5  | 261.0  | 237.0  | 213.1  | 201.1  | 179.5  | 160.4  | 160.4  | 162.8  |
| 70°   | 225.1  | 215.4  | 196.3  | 174.8  | 160.4  | 141.3  | 134.0  | 136.5  | 136.5  |
| 72.5° | 184.3  | 177.2  | 158.0  | 138.9  | 124.5  | 112.5  | 112.5  | 114.9  | 117.4  |
| 75°   | 146.0  | 141.3  | 122.1  | 105.3  | 95.7   | 88.6   | 93.3   | 95.7   | 98.1   |
| 77.5° | 112.5  | 105.3  | 91.0   | 78.9   | 71.8   | 74.2   | 78.9   | 81.4   | 83.8   |
| 80°   | 78.9   | 76.6   | 64.7   | 57.4   | 55.1   | 57.4   | 62.2   | 64.7   | 64.7   |
| 82.5° | 50.3   | 47.9   | 40.7   | 38.3   | 38.3   | 40.7   | 45.5   | 45.5   | 45.5   |
| 85°   | 26.3   | 23.9   | 21.5   | 21.5   | 23.9   | 26.3   | 28.8   | 28.8   | 28.8   |
| 87.5° | 9.6    | 7.1    | 9.6    | 9.6    | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   |
| 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





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Scaled Data Report



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

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