

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: P593281

Luminaire Tested: **HCC6W40D010BZ-HM63040850-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010BZ-HM63040850-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

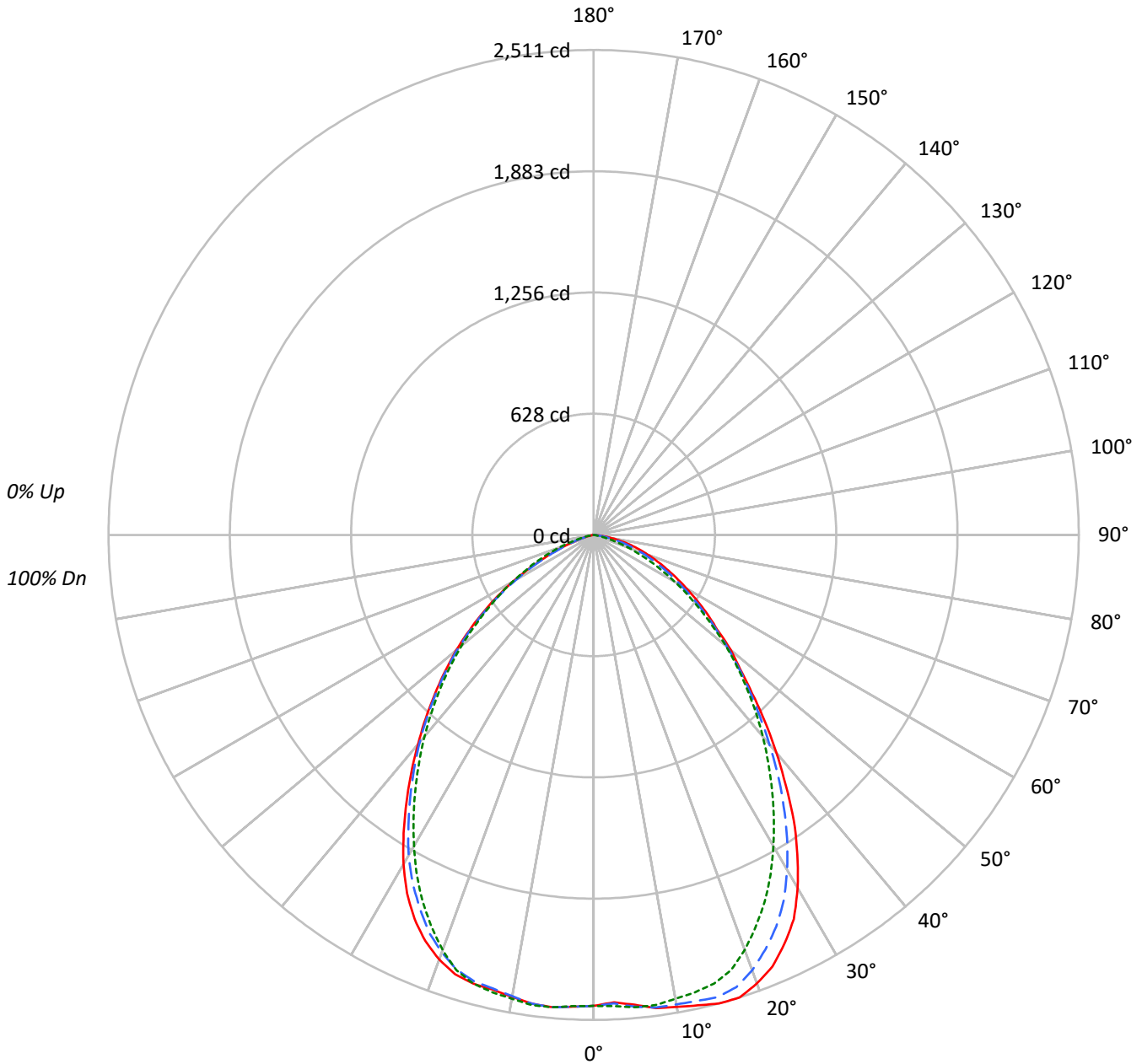
Lumens per Lamp: N/A  
Luminaire Lumens: 4922.9 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): 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  |     |     |     |     |     |     |     |     | 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 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 133674 | 133674 | 133674 |
| 5°  | 134366 | 135092 | 135092 |
| 10° | 138129 | 135736 | 135185 |
| 15° | 142515 | 136510 | 136510 |
| 20° | 144178 | 133391 | 136465 |
| 25° | 141292 | 126709 | 132703 |
| 30° | 133647 | 117752 | 124658 |
| 35° | 120950 | 107679 | 113000 |
| 40° | 105219 | 97418  | 101197 |
| 45° | 89916  | 86838  | 89916  |
| 50° | 78897  | 76091  | 79179  |
| 55° | 68843  | 64103  | 66636  |
| 60° | 60850  | 53252  | 52529  |
| 65° | 54001  | 42002  | 35996  |
| 70° | 47668  | 29668  | 21718  |
| 75° | 40604  | 16796  | 10506  |
| 80° | 30244  | 5209   | 3125   |
| 85° | 16605  | 2076   | 2076   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.9  | 4.8       |
| 10°-20°   | 684.3  | 13.9      |
| 20°-30°   | 999.5  | 20.3      |
| 30°-40°   | 1048.2 | 21.3      |
| 40°-50°   | 883.1  | 17.9      |
| 50°-60°   | 618.7  | 12.6      |
| 60°-70°   | 331.7  | 6.7       |
| 70°-80°   | 111.3  | 2.3       |
| 80°-90°   | 12.1   | 0.2       |
| 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°    | 1917.7 | 39.0      |
| 0°-40°    | 2966.0 | 60.2      |
| 0°-60°    | 4467.8 | 90.8      |
| 0°-90°    | 4922.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4922.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2438 | 2438 | 2438 | 2438 | 2438 |      |
| 5°  | 2442 | 2452 | 2455 | 2455 | 2455 | 235  |
| 15° | 2511 | 2478 | 2405 | 2392 | 2405 | 708  |
| 25° | 2336 | 2237 | 2095 | 2131 | 2194 | 1070 |
| 35° | 1807 | 1715 | 1609 | 1655 | 1688 | 1122 |
| 45° | 1160 | 1140 | 1120 | 1150 | 1160 | 903  |
| 55° | 720  | 697  | 671  | 684  | 697  | 648  |
| 65° | 416  | 380  | 324  | 268  | 278  | 416  |
| 75° | 192  | 149  | 79   | 50   | 50   | 203  |
| 85° | 26   | 13   | 3    | 3    | 3    | 36   |
| 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°    | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 |
| 2.5°  | 2421.9 | 2421.9 | 2428.5 | 2435.1 | 2441.7 | 2441.7 | 2445.0 | 2448.3 | 2445.0 |
| 5°    | 2441.7 | 2441.7 | 2451.6 | 2454.9 | 2454.9 | 2451.6 | 2454.9 | 2454.9 | 2454.9 |
| 7.5°  | 2471.4 | 2464.8 | 2468.1 | 2461.5 | 2454.9 | 2451.6 | 2448.3 | 2448.3 | 2448.3 |
| 10°   | 2481.4 | 2474.8 | 2468.1 | 2454.9 | 2438.4 | 2428.5 | 2425.2 | 2428.5 | 2428.5 |
| 12.5° | 2494.6 | 2488.0 | 2471.4 | 2445.0 | 2425.2 | 2408.8 | 2405.3 | 2412.1 | 2412.1 |
| 15°   | 2511.1 | 2504.5 | 2478.1 | 2435.1 | 2405.3 | 2388.8 | 2392.1 | 2398.7 | 2405.3 |
| 17.5° | 2511.1 | 2497.9 | 2454.9 | 2398.7 | 2362.5 | 2346.0 | 2359.2 | 2375.7 | 2385.5 |
| 20°   | 2471.4 | 2458.2 | 2398.7 | 2329.4 | 2286.5 | 2276.6 | 2299.7 | 2329.4 | 2339.2 |
| 22.5° | 2418.7 | 2392.1 | 2322.8 | 2240.2 | 2193.9 | 2193.9 | 2227.0 | 2263.3 | 2276.6 |
| 25°   | 2335.9 | 2316.2 | 2236.9 | 2141.0 | 2094.8 | 2091.5 | 2131.1 | 2180.7 | 2193.9 |
| 27.5° | 2243.5 | 2217.1 | 2131.1 | 2032.1 | 1982.5 | 1985.8 | 2028.8 | 2078.2 | 2091.5 |
| 30°   | 2111.3 | 2078.2 | 2002.2 | 1906.5 | 1860.2 | 1873.4 | 1916.4 | 1952.8 | 1969.3 |
| 32.5° | 1962.7 | 1932.9 | 1863.5 | 1774.3 | 1734.6 | 1747.8 | 1784.2 | 1817.3 | 1830.5 |
| 35°   | 1807.3 | 1774.3 | 1714.8 | 1635.6 | 1609.0 | 1622.4 | 1655.3 | 1681.7 | 1688.5 |
| 37.5° | 1632.3 | 1609.0 | 1566.2 | 1503.4 | 1483.5 | 1500.1 | 1526.5 | 1543.0 | 1549.6 |
| 40°   | 1470.3 | 1450.5 | 1414.1 | 1367.9 | 1361.3 | 1374.5 | 1400.9 | 1410.8 | 1414.1 |
| 42.5° | 1311.7 | 1295.3 | 1272.0 | 1239.1 | 1239.1 | 1252.3 | 1275.3 | 1281.9 | 1285.2 |
| 45°   | 1159.8 | 1149.8 | 1139.9 | 1113.5 | 1120.1 | 1136.6 | 1149.8 | 1159.8 | 1159.8 |
| 47.5° | 1027.6 | 1030.9 | 1017.6 | 997.8  | 1004.4 | 1020.9 | 1030.9 | 1040.8 | 1040.8 |
| 50°   | 925.1  | 915.3  | 902.1  | 882.1  | 892.2  | 905.4  | 918.6  | 925.1  | 928.4  |
| 52.5° | 806.2  | 802.9  | 793.0  | 769.9  | 776.5  | 783.1  | 796.3  | 806.2  | 809.5  |
| 55°   | 720.3  | 710.4  | 697.2  | 670.7  | 670.7  | 677.3  | 683.9  | 690.5  | 697.2  |
| 57.5° | 637.7  | 627.8  | 607.9  | 578.2  | 575.0  | 575.0  | 571.7  | 578.2  | 588.1  |
| 60°   | 555.0  | 551.7  | 522.1  | 495.7  | 485.7  | 475.8  | 462.6  | 465.9  | 479.1  |
| 62.5° | 482.4  | 475.8  | 449.4  | 416.3  | 396.5  | 380.0  | 363.5  | 360.1  | 373.4  |
| 65°   | 416.3  | 409.7  | 380.0  | 346.9  | 323.8  | 294.0  | 267.6  | 267.6  | 277.5  |
| 67.5° | 356.8  | 343.6  | 317.2  | 280.8  | 251.1  | 214.7  | 188.4  | 194.9  | 198.2  |
| 70°   | 297.4  | 287.4  | 257.7  | 221.3  | 185.1  | 148.7  | 132.2  | 135.5  | 135.5  |
| 72.5° | 244.5  | 231.4  | 201.5  | 165.3  | 128.9  | 95.8   | 89.2   | 85.9   | 85.9   |
| 75°   | 191.7  | 178.5  | 148.7  | 112.4  | 79.3   | 56.2   | 49.6   | 49.6   | 49.6   |
| 77.5° | 138.8  | 128.9  | 102.5  | 69.4   | 43.0   | 26.4   | 23.1   | 19.8   | 19.8   |
| 80°   | 95.8   | 85.9   | 62.8   | 36.4   | 16.5   | 9.9    | 9.9    | 9.9    | 9.9    |
| 82.5° | 56.2   | 46.3   | 29.7   | 16.5   | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    |
| 85°   | 26.4   | 19.8   | 13.2   | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 3.3    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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

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