

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: P582195

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W30D010BZ-HM63040840-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

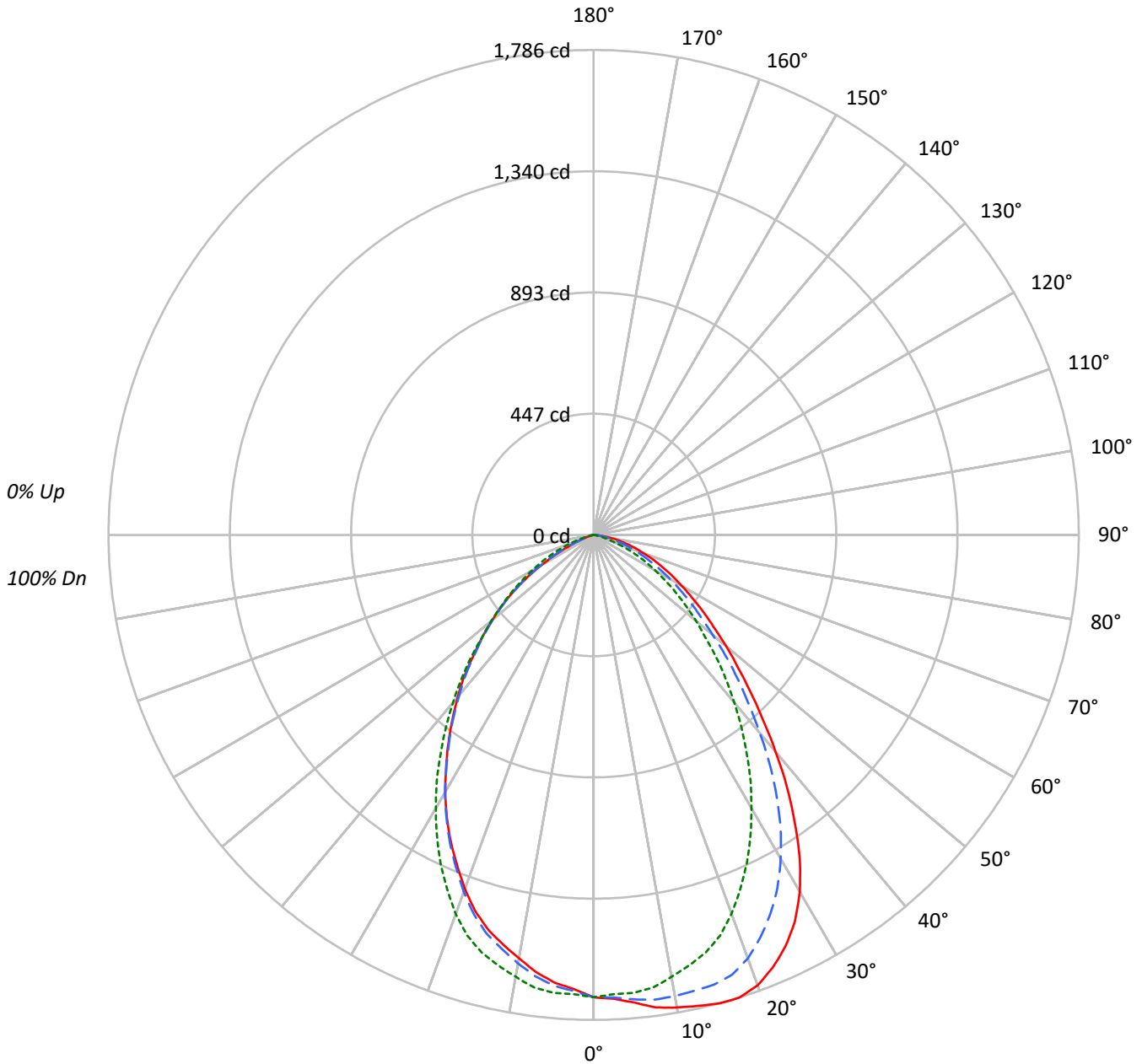
Lumens per Lamp: N/A  
Luminaire Lumens: 3034.1 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (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  |     |     |     | 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 |    |    | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    | 78  |
| 3   | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    | 69  |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  |    |    | 61  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |    |    | 54  |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    | 49  |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  |    |    | 44  |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    | 40  |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    | 37  |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    | 34  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 93337  | 93337 | 93337 |
| 5°  | 95141  | 93165 | 91057 |
| 10° | 98378  | 91982 | 88113 |
| 15° | 101391 | 90375 | 85347 |
| 20° | 102956 | 86615 | 80886 |
| 25° | 101105 | 80678 | 75319 |
| 30° | 96103  | 73518 | 69125 |
| 35° | 86384  | 65712 | 62346 |
| 40° | 74547  | 57579 | 55697 |
| 45° | 63123  | 49563 | 48269 |
| 50° | 54122  | 41866 | 41457 |
| 55° | 46918  | 35248 | 33872 |
| 60° | 40962  | 28616 | 24154 |
| 65° | 36035  | 22052 | 13361 |
| 70° | 31079  | 14586 | 6524  |
| 75° | 26370  | 7096  | 2542  |
| 80° | 20426  | 3031  | 1515  |
| 85° | 12014  | 1510  | 1510  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.7  | 5.3       |
| 10°-20°   | 454.4  | 15.0      |
| 20°-30°   | 639.8  | 21.1      |
| 30°-40°   | 653.7  | 21.5      |
| 40°-50°   | 527.1  | 17.4      |
| 50°-60°   | 353.5  | 11.7      |
| 60°-70°   | 178.9  | 5.9       |
| 70°-80°   | 57.2   | 1.9       |
| 80°-90°   | 8.8    | 0.3       |
| 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°    | 1254.9 | 41.4      |
| 0°-40°    | 1908.6 | 62.9      |
| 0°-60°    | 2789.2 | 91.9      |
| 0°-90°    | 3034.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3034.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1703 | 1703 | 1703 | 1703 | 1703 |      |
| 5°  | 1729 | 1717 | 1693 | 1667 | 1655 | 166  |
| 15° | 1786 | 1714 | 1592 | 1521 | 1504 | 504  |
| 25° | 1672 | 1540 | 1334 | 1252 | 1245 | 765  |
| 35° | 1291 | 1173 | 982  | 927  | 932  | 803  |
| 45° | 814  | 750  | 639  | 618  | 623  | 633  |
| 55° | 491  | 436  | 369  | 352  | 354  | 442  |
| 65° | 278  | 230  | 170  | 113  | 103  | 277  |
| 75° | 124  | 89   | 34   | 12   | 12   | 134  |
| 85° | 19   | 10   | 2    | 2    | 2    | 26   |
| 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°    | 1702.6 | 1702.6 | 1702.6 | 1702.6 | 1702.6 | 1702.6 | 1702.6 | 1702.6 | 1702.6 |
| 2.5°  | 1709.8 | 1707.4 | 1705.0 | 1700.3 | 1693.0 | 1685.9 | 1681.1 | 1676.3 | 1673.9 |
| 5°    | 1728.9 | 1724.2 | 1717.0 | 1707.4 | 1693.0 | 1676.3 | 1666.7 | 1657.1 | 1654.7 |
| 7.5°  | 1755.3 | 1745.7 | 1726.5 | 1705.0 | 1681.1 | 1657.1 | 1640.3 | 1630.8 | 1623.6 |
| 10°   | 1767.3 | 1750.6 | 1724.2 | 1688.3 | 1652.4 | 1623.6 | 1602.1 | 1587.7 | 1582.9 |
| 12.5° | 1776.8 | 1757.7 | 1719.4 | 1671.5 | 1623.6 | 1585.3 | 1561.3 | 1549.4 | 1544.6 |
| 15°   | 1786.5 | 1767.3 | 1714.5 | 1652.4 | 1592.4 | 1547.0 | 1520.6 | 1508.6 | 1503.8 |
| 17.5° | 1786.5 | 1760.1 | 1697.8 | 1618.8 | 1547.0 | 1491.8 | 1465.6 | 1453.6 | 1451.2 |
| 20°   | 1764.8 | 1736.2 | 1659.5 | 1566.2 | 1484.7 | 1422.4 | 1398.5 | 1391.4 | 1386.5 |
| 22.5° | 1724.2 | 1690.6 | 1604.4 | 1499.1 | 1410.5 | 1350.6 | 1324.3 | 1319.4 | 1314.7 |
| 25°   | 1671.5 | 1638.0 | 1539.8 | 1427.3 | 1333.8 | 1274.0 | 1252.4 | 1247.6 | 1245.2 |
| 27.5° | 1604.4 | 1568.5 | 1465.6 | 1350.6 | 1250.0 | 1192.6 | 1173.4 | 1173.4 | 1171.0 |
| 30°   | 1518.2 | 1477.6 | 1377.0 | 1262.0 | 1161.4 | 1108.7 | 1094.4 | 1094.4 | 1092.0 |
| 32.5° | 1412.9 | 1372.1 | 1281.1 | 1171.0 | 1075.2 | 1020.2 | 1008.2 | 1012.9 | 1010.5 |
| 35°   | 1290.8 | 1257.2 | 1173.4 | 1065.6 | 981.9  | 931.6  | 926.7  | 931.6  | 931.6  |
| 37.5° | 1168.5 | 1137.5 | 1065.6 | 972.2  | 893.2  | 847.8  | 847.8  | 854.9  | 852.5  |
| 40°   | 1041.7 | 1017.8 | 950.7  | 869.3  | 804.6  | 773.4  | 768.7  | 775.8  | 778.3  |
| 42.5° | 922.0  | 902.8  | 845.4  | 778.3  | 720.8  | 689.6  | 696.9  | 701.6  | 704.0  |
| 45°   | 814.2  | 795.1  | 749.5  | 680.1  | 639.3  | 617.8  | 617.8  | 625.1  | 622.6  |
| 47.5° | 718.4  | 704.0  | 658.6  | 591.5  | 555.6  | 546.0  | 550.7  | 555.6  | 555.6  |
| 50°   | 634.6  | 613.0  | 569.9  | 517.2  | 490.9  | 478.9  | 483.7  | 486.1  | 486.1  |
| 52.5° | 555.6  | 541.2  | 498.1  | 450.2  | 426.3  | 419.1  | 419.1  | 421.5  | 421.5  |
| 55°   | 490.9  | 474.2  | 435.9  | 388.0  | 368.8  | 359.2  | 352.1  | 349.6  | 354.4  |
| 57.5° | 428.6  | 414.2  | 378.3  | 332.9  | 311.3  | 301.8  | 287.4  | 282.6  | 287.4  |
| 60°   | 373.6  | 361.6  | 325.7  | 282.6  | 261.0  | 241.8  | 225.1  | 215.6  | 220.3  |
| 62.5° | 325.7  | 311.3  | 275.4  | 239.5  | 215.6  | 193.9  | 167.6  | 153.3  | 160.4  |
| 65°   | 277.8  | 265.9  | 229.8  | 193.9  | 170.0  | 143.6  | 112.6  | 103.0  | 103.0  |
| 67.5° | 234.7  | 222.7  | 189.2  | 158.0  | 129.4  | 98.2   | 69.4   | 67.1   | 69.4   |
| 70°   | 193.9  | 182.0  | 153.3  | 122.1  | 91.0   | 59.9   | 40.7   | 40.7   | 40.7   |
| 72.5° | 160.4  | 146.1  | 119.7  | 88.6   | 57.4   | 31.2   | 21.5   | 23.9   | 23.9   |
| 75°   | 124.5  | 112.6  | 88.6   | 59.9   | 33.5   | 14.4   | 12.0   | 12.0   | 12.0   |
| 77.5° | 93.3   | 83.8   | 62.3   | 38.3   | 16.8   | 4.8    | 4.8    | 4.8    | 4.8    |
| 80°   | 64.7   | 55.1   | 40.7   | 23.9   | 9.6    | 4.8    | 4.8    | 4.8    | 4.8    |
| 82.5° | 38.3   | 33.5   | 23.9   | 12.0   | 4.8    | 2.4    | 2.4    | 2.4    | 2.4    |
| 85°   | 19.1   | 16.8   | 9.6    | 4.8    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 87.5° | 4.8    | 4.8    | 2.4    | 2.4    | 0.0    | 2.4    | 2.4    | 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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Scaled Data Report



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Scaled Data Report



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

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