

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: P582196

Luminaire Tested: **HCC6S30D010BZ-HM63040840-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582196  
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: HCC6S30D010BZ-HM63040840-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

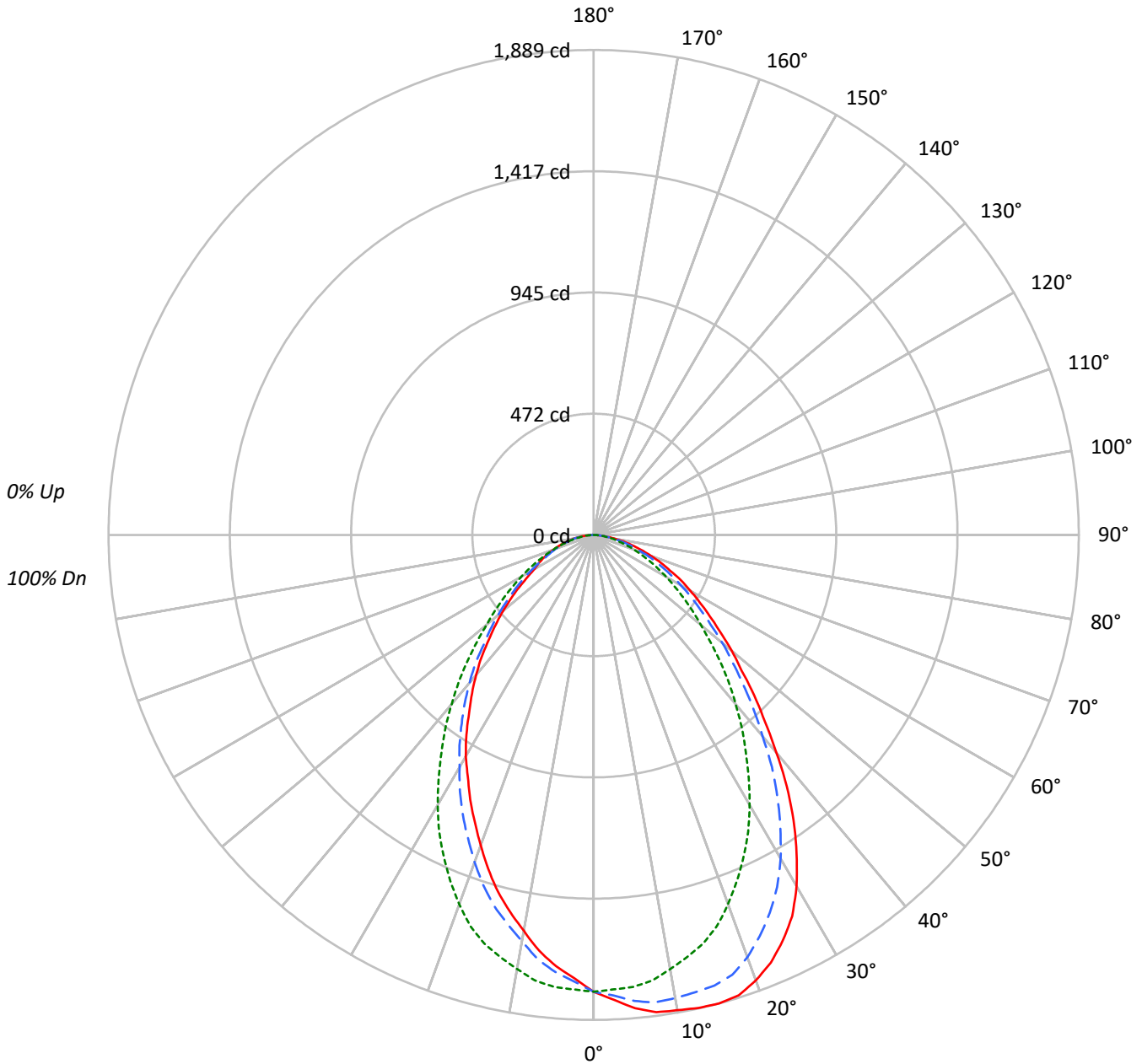
Lumens per Lamp: N/A  
Luminaire Lumens: 3314.3 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 97536  | 97536 | 97536 |
| 5°  | 101860 | 97248 | 92774 |
| 10° | 104641 | 95573 | 87184 |
| 15° | 107231 | 93502 | 81680 |
| 20° | 107710 | 89269 | 75017 |
| 25° | 105448 | 83575 | 68804 |
| 30° | 100041 | 76854 | 63054 |
| 35° | 90861  | 69071 | 56570 |
| 40° | 79177  | 61515 | 50903 |
| 45° | 68511  | 53843 | 44741 |
| 50° | 59836  | 46361 | 39214 |
| 55° | 52863  | 40744 | 33652 |
| 60° | 47518  | 35710 | 29153 |
| 65° | 42547  | 31067 | 28265 |
| 70° | 38003  | 26495 | 26495 |
| 75° | 32957  | 22303 | 24866 |
| 80° | 26455  | 18910 | 22667 |
| 85° | 18115  | 16605 | 19625 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.2  | 5.0       |
| 10°-20°   | 464.8  | 14.0      |
| 20°-30°   | 647.8  | 19.5      |
| 30°-40°   | 667.5  | 20.1      |
| 40°-50°   | 553.2  | 16.7      |
| 50°-60°   | 397.5  | 12.0      |
| 60°-70°   | 253.2  | 7.6       |
| 70°-80°   | 130.0  | 3.9       |
| 80°-90°   | 33.1   | 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°    | 1279.9 | 38.6      |
| 0°-40°    | 1947.3 | 58.8      |
| 0°-60°    | 2898.0 | 87.4      |
| 0°-90°    | 3314.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3314.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1779 | 1779 | 1779 | 1779 | 1779 |      |
| 5°  | 1851 | 1822 | 1767 | 1710 | 1686 | 177  |
| 15° | 1889 | 1818 | 1648 | 1497 | 1439 | 532  |
| 25° | 1743 | 1624 | 1382 | 1204 | 1138 | 799  |
| 35° | 1358 | 1248 | 1032 | 896  | 845  | 843  |
| 45° | 884  | 821  | 694  | 606  | 577  | 684  |
| 55° | 553  | 508  | 426  | 378  | 352  | 498  |
| 65° | 328  | 292  | 240  | 208  | 218  | 329  |
| 75° | 156  | 134  | 105  | 110  | 117  | 166  |
| 85° | 29   | 26   | 26   | 29   | 31   | 37   |
| 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°    | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 |
| 2.5°  | 1812.7 | 1805.6 | 1796.0 | 1786.5 | 1772.1 | 1755.3 | 1740.9 | 1736.2 | 1728.9 |
| 5°    | 1851.0 | 1841.5 | 1822.4 | 1798.4 | 1767.2 | 1736.2 | 1709.8 | 1693.0 | 1685.9 |
| 7.5°  | 1875.1 | 1863.0 | 1836.6 | 1796.0 | 1750.4 | 1705.0 | 1666.7 | 1642.7 | 1633.2 |
| 10°   | 1879.8 | 1867.8 | 1831.9 | 1776.8 | 1716.9 | 1654.7 | 1606.8 | 1578.0 | 1566.2 |
| 12.5° | 1886.9 | 1870.2 | 1824.8 | 1760.1 | 1683.4 | 1611.6 | 1551.8 | 1515.9 | 1503.8 |
| 15°   | 1889.4 | 1870.2 | 1817.5 | 1738.6 | 1647.5 | 1561.3 | 1496.7 | 1453.6 | 1439.2 |
| 17.5° | 1879.8 | 1858.3 | 1796.0 | 1700.2 | 1597.2 | 1506.2 | 1429.7 | 1384.1 | 1365.0 |
| 20°   | 1846.3 | 1822.4 | 1750.4 | 1642.7 | 1530.2 | 1434.4 | 1355.3 | 1307.4 | 1285.9 |
| 22.5° | 1803.1 | 1772.1 | 1690.6 | 1575.7 | 1458.3 | 1357.7 | 1278.8 | 1230.9 | 1209.3 |
| 25°   | 1743.3 | 1714.5 | 1623.6 | 1501.5 | 1381.7 | 1276.4 | 1204.5 | 1154.3 | 1137.5 |
| 27.5° | 1673.9 | 1640.3 | 1546.9 | 1424.8 | 1302.7 | 1197.3 | 1127.9 | 1082.3 | 1060.8 |
| 30°   | 1580.4 | 1549.4 | 1455.9 | 1333.8 | 1214.1 | 1115.9 | 1044.1 | 1005.8 | 996.1  |
| 32.5° | 1470.3 | 1443.9 | 1353.0 | 1238.0 | 1123.1 | 1032.1 | 972.2  | 931.5  | 922.0  |
| 35°   | 1357.7 | 1326.7 | 1247.6 | 1139.9 | 1032.1 | 950.7  | 895.6  | 859.6  | 845.3  |
| 37.5° | 1235.6 | 1207.0 | 1139.9 | 1044.1 | 948.2  | 871.7  | 823.7  | 792.6  | 778.3  |
| 40°   | 1106.4 | 1084.7 | 1022.5 | 945.8  | 859.6  | 792.6  | 751.9  | 725.5  | 711.3  |
| 42.5° | 986.6  | 965.0  | 922.0  | 850.1  | 778.3  | 718.4  | 682.5  | 658.6  | 646.6  |
| 45°   | 883.7  | 864.5  | 821.4  | 759.1  | 694.5  | 644.2  | 605.8  | 589.0  | 577.1  |
| 47.5° | 780.7  | 771.1  | 732.8  | 675.4  | 615.4  | 572.3  | 546.0  | 526.8  | 517.2  |
| 50°   | 701.6  | 689.6  | 653.7  | 593.9  | 543.6  | 510.1  | 486.1  | 469.3  | 459.8  |
| 52.5° | 620.2  | 608.3  | 574.8  | 524.5  | 483.7  | 452.5  | 428.6  | 414.2  | 404.7  |
| 55°   | 553.1  | 543.6  | 507.7  | 462.2  | 426.3  | 399.9  | 378.3  | 361.6  | 352.1  |
| 57.5° | 490.9  | 481.3  | 447.8  | 404.7  | 373.6  | 349.6  | 330.4  | 316.0  | 304.1  |
| 60°   | 433.4  | 426.3  | 392.7  | 352.1  | 325.7  | 301.8  | 285.0  | 273.0  | 265.9  |
| 62.5° | 383.1  | 368.8  | 340.1  | 304.1  | 280.1  | 261.0  | 244.2  | 237.1  | 241.8  |
| 65°   | 328.0  | 320.9  | 292.1  | 261.0  | 239.5  | 220.3  | 208.3  | 213.1  | 217.9  |
| 67.5° | 282.6  | 273.0  | 249.1  | 220.3  | 201.2  | 186.8  | 179.7  | 189.2  | 191.5  |
| 70°   | 237.1  | 227.5  | 205.9  | 182.0  | 165.3  | 155.6  | 155.6  | 162.9  | 165.3  |
| 72.5° | 193.9  | 186.8  | 167.6  | 148.5  | 136.5  | 129.4  | 134.1  | 138.9  | 141.3  |
| 75°   | 155.6  | 148.5  | 134.1  | 117.4  | 105.3  | 105.3  | 110.1  | 115.0  | 117.4  |
| 77.5° | 119.7  | 115.0  | 100.6  | 88.6   | 83.8   | 83.8   | 88.6   | 91.0   | 93.3   |
| 80°   | 83.8   | 79.1   | 71.8   | 64.7   | 59.9   | 64.7   | 69.4   | 69.4   | 71.8   |
| 82.5° | 55.1   | 52.7   | 47.9   | 43.2   | 43.2   | 45.5   | 47.9   | 50.3   | 50.3   |
| 85°   | 28.8   | 28.8   | 26.4   | 23.9   | 26.4   | 28.8   | 28.8   | 31.2   | 31.2   |
| 87.5° | 9.6    | 9.6    | 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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