

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: P582153

Luminaire Tested: **HCC6W30D010SL-HM63040830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W30D010SL-HM63040830-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

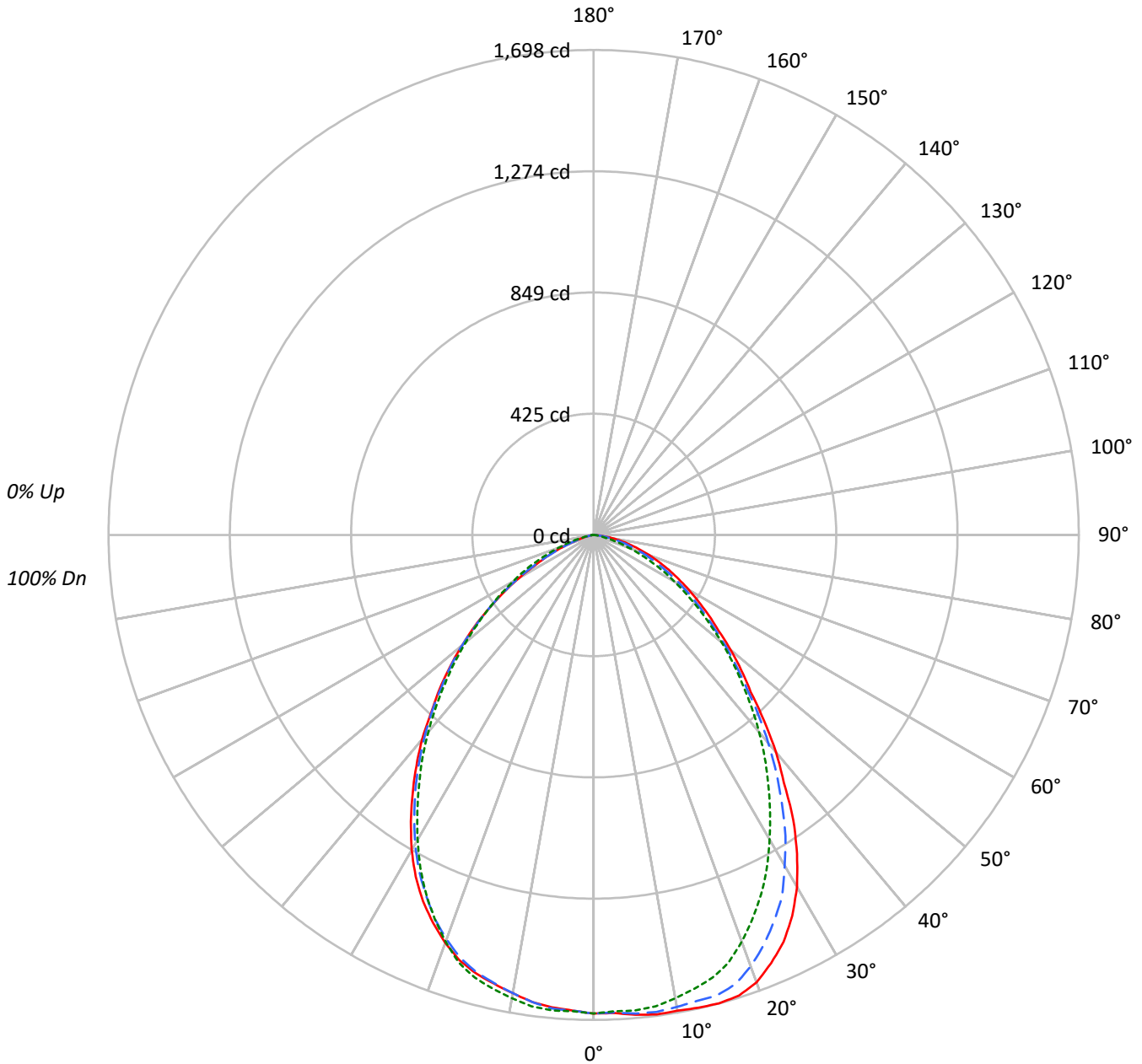
Lumens per Lamp: N/A  
Luminaire Lumens: 3283.3 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |    | 67  |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |    | 59  |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 91862 | 91862 | 91862 |
| 5°  | 92813 | 91971 | 91366 |
| 10° | 94131 | 91687 | 90708 |
| 15° | 96351 | 91113 | 90239 |
| 20° | 97244 | 88406 | 88657 |
| 25° | 95116 | 83950 | 85547 |
| 30° | 90083 | 77987 | 80633 |
| 35° | 81566 | 71280 | 73930 |
| 40° | 71040 | 64435 | 66797 |
| 45° | 60278 | 57045 | 59076 |
| 50° | 53380 | 49824 | 51128 |
| 55° | 47014 | 42608 | 42398 |
| 60° | 42135 | 35874 | 32980 |
| 65° | 37605 | 28784 | 23647 |
| 70° | 33083 | 20773 | 14794 |
| 75° | 27895 | 12560 | 8366  |
| 80° | 21499 | 5556  | 3441  |
| 85° | 12391 | 1321  | 1321  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.1  | 4.8       |
| 10°-20°   | 457.1  | 13.9      |
| 20°-30°   | 660.8  | 20.1      |
| 30°-40°   | 695.3  | 21.2      |
| 40°-50°   | 584.5  | 17.8      |
| 50°-60°   | 410.2  | 12.5      |
| 60°-70°   | 225.7  | 6.9       |
| 70°-80°   | 80.1   | 2.4       |
| 80°-90°   | 10.4   | 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°    | 1277.0 | 38.9      |
| 0°-40°    | 1972.3 | 60.1      |
| 0°-60°    | 2967.1 | 90.4      |
| 0°-90°    | 3283.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3283.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1676 | 1676 | 1676 | 1676 | 1676 |      |
| 5°  | 1687 | 1682 | 1671 | 1665 | 1660 | 161  |
| 15° | 1698 | 1669 | 1605 | 1586 | 1590 | 479  |
| 25° | 1572 | 1493 | 1388 | 1390 | 1414 | 719  |
| 35° | 1219 | 1149 | 1065 | 1087 | 1105 | 755  |
| 45° | 778  | 756  | 736  | 753  | 762  | 610  |
| 55° | 492  | 466  | 446  | 446  | 444  | 443  |
| 65° | 290  | 259  | 222  | 182  | 182  | 289  |
| 75° | 132  | 106  | 59   | 40   | 40   | 141  |
| 85° | 20   | 11   | 2    | 2    | 2    | 27   |
| 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°    | 1675.7 | 1675.7 | 1675.7 | 1675.7 | 1675.7 | 1675.7 | 1675.7 | 1675.7 | 1675.7 |
| 2.5°  | 1675.7 | 1675.7 | 1673.4 | 1673.4 | 1669.0 | 1669.0 | 1666.9 | 1666.9 | 1666.9 |
| 5°    | 1686.6 | 1686.6 | 1682.2 | 1675.7 | 1671.3 | 1664.7 | 1664.7 | 1662.5 | 1660.3 |
| 7.5°  | 1693.3 | 1691.0 | 1684.5 | 1675.7 | 1664.7 | 1653.7 | 1649.3 | 1651.5 | 1649.3 |
| 10°   | 1691.0 | 1686.6 | 1677.8 | 1660.3 | 1647.1 | 1631.7 | 1629.5 | 1627.4 | 1629.5 |
| 12.5° | 1695.4 | 1688.9 | 1671.3 | 1649.3 | 1627.4 | 1609.8 | 1607.5 | 1607.5 | 1609.8 |
| 15°   | 1697.7 | 1691.0 | 1669.0 | 1636.1 | 1605.4 | 1587.8 | 1585.7 | 1587.8 | 1590.0 |
| 17.5° | 1691.0 | 1682.2 | 1649.3 | 1605.4 | 1570.2 | 1552.7 | 1552.7 | 1557.0 | 1561.4 |
| 20°   | 1666.9 | 1653.7 | 1607.5 | 1554.9 | 1515.4 | 1502.2 | 1506.6 | 1515.4 | 1519.7 |
| 22.5° | 1623.0 | 1607.5 | 1554.9 | 1495.5 | 1453.8 | 1442.9 | 1453.8 | 1464.8 | 1469.2 |
| 25°   | 1572.5 | 1554.9 | 1493.4 | 1431.9 | 1387.9 | 1374.7 | 1390.2 | 1407.7 | 1414.3 |
| 27.5° | 1504.3 | 1484.6 | 1427.5 | 1357.2 | 1313.3 | 1306.7 | 1324.3 | 1344.0 | 1348.4 |
| 30°   | 1423.1 | 1401.1 | 1337.4 | 1271.5 | 1232.0 | 1229.8 | 1249.6 | 1267.1 | 1273.8 |
| 32.5° | 1324.3 | 1304.5 | 1249.6 | 1183.8 | 1148.6 | 1148.6 | 1168.3 | 1183.8 | 1190.3 |
| 35°   | 1218.8 | 1196.8 | 1148.6 | 1093.6 | 1065.1 | 1067.4 | 1087.1 | 1098.0 | 1104.7 |
| 37.5° | 1093.6 | 1087.1 | 1049.8 | 1003.6 | 983.9  | 988.3  | 1003.6 | 1012.4 | 1019.0 |
| 40°   | 992.7  | 975.1  | 951.0  | 913.6  | 900.4  | 904.8  | 920.2  | 929.0  | 933.4  |
| 42.5° | 882.8  | 871.9  | 852.0  | 825.8  | 817.0  | 823.5  | 836.7  | 843.4  | 841.1  |
| 45°   | 777.5  | 775.2  | 755.5  | 740.2  | 735.8  | 744.4  | 753.2  | 759.9  | 762.0  |
| 47.5° | 700.6  | 691.8  | 674.2  | 663.2  | 658.8  | 667.6  | 676.4  | 680.8  | 680.8  |
| 50°   | 625.9  | 617.1  | 599.5  | 588.6  | 584.2  | 593.0  | 599.5  | 603.9  | 599.5  |
| 52.5° | 551.2  | 542.4  | 527.1  | 513.9  | 511.7  | 516.1  | 518.3  | 520.4  | 524.8  |
| 55°   | 491.9  | 483.1  | 465.6  | 450.2  | 445.8  | 448.0  | 445.8  | 445.8  | 443.6  |
| 57.5° | 434.8  | 426.0  | 408.4  | 390.9  | 384.3  | 382.1  | 375.5  | 373.3  | 371.1  |
| 60°   | 384.3  | 373.3  | 355.7  | 336.0  | 327.2  | 318.4  | 307.5  | 300.8  | 300.8  |
| 62.5° | 336.0  | 325.1  | 305.2  | 287.7  | 274.5  | 259.2  | 241.6  | 232.8  | 232.8  |
| 65°   | 289.9  | 281.1  | 259.2  | 239.3  | 221.9  | 202.0  | 182.3  | 177.9  | 182.3  |
| 67.5° | 246.0  | 237.2  | 215.2  | 195.5  | 173.5  | 149.3  | 131.7  | 131.7  | 136.1  |
| 70°   | 206.4  | 197.6  | 177.9  | 153.7  | 129.6  | 105.5  | 92.3   | 92.3   | 92.3   |
| 72.5° | 169.1  | 160.3  | 138.4  | 116.4  | 92.3   | 68.1   | 61.5   | 63.7   | 61.5   |
| 75°   | 131.7  | 125.2  | 105.5  | 81.2   | 59.3   | 41.7   | 39.5   | 37.3   | 39.5   |
| 77.5° | 98.8   | 92.3   | 74.7   | 52.7   | 32.9   | 24.1   | 22.0   | 22.0   | 22.0   |
| 80°   | 68.1   | 61.5   | 48.3   | 30.8   | 17.6   | 10.9   | 10.9   | 10.9   | 10.9   |
| 82.5° | 41.7   | 35.2   | 26.4   | 15.3   | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    |
| 85°   | 19.7   | 15.3   | 10.9   | 4.4    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 87.5° | 4.4    | 4.4    | 2.1    | 2.1    | 0.0    | 2.1    | 2.1    | 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





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Scaled Data Report



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

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