

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: P593263

Luminaire Tested: **HCC6W35D010SL-HM63040950-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593263
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: HCC6W35D010SL-HM63040950-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

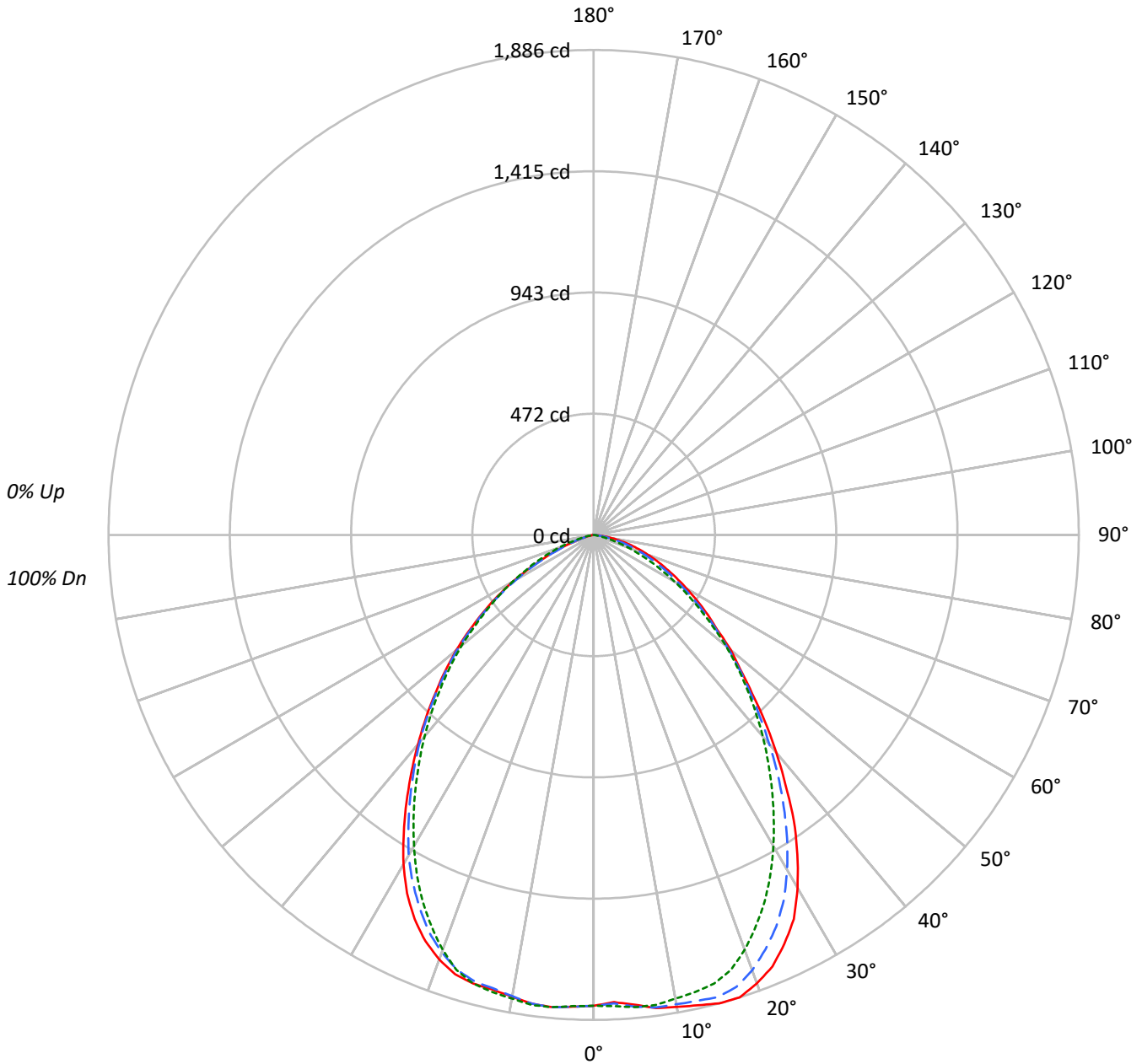
Lumens per Lamp: N/A
Luminaire Lumens: 3696.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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 | | | | | 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 | | | | | | | | |
| 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° | 100381 | 100381 | 100381 |
| 5° | 100902 | 101447 | 101447 |
| 10° | 103733 | 101930 | 101518 |
| 15° | 107027 | 102515 | 102515 |
| 20° | 108276 | 100167 | 102483 |
| 25° | 106107 | 95153 | 99659 |
| 30° | 100364 | 88425 | 93609 |
| 35° | 90828 | 80863 | 84852 |
| 40° | 79012 | 73158 | 76000 |
| 45° | 67519 | 65216 | 67519 |
| 50° | 59248 | 57141 | 59469 |
| 55° | 51697 | 48142 | 50034 |
| 60° | 45709 | 39986 | 39449 |
| 65° | 40549 | 31547 | 27033 |
| 70° | 35807 | 22279 | 16317 |
| 75° | 30479 | 12603 | 7879 |
| 80° | 22730 | 3915 | 2368 |
| 85° | 12454 | 1572 | 1572 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.7 | 4.8 |
| 10°-20° | 513.9 | 13.9 |
| 20°-30° | 750.6 | 20.3 |
| 30°-40° | 787.2 | 21.3 |
| 40°-50° | 663.2 | 17.9 |
| 50°-60° | 464.6 | 12.6 |
| 60°-70° | 249.1 | 6.7 |
| 70°-80° | 83.5 | 2.3 |
| 80°-90° | 9.1 | 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° | 1440.1 | 39.0 |
| 0°-40° | 2227.3 | 60.2 |
| 0°-60° | 3355.1 | 90.8 |
| 0°-90° | 3696.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3696.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1831 | 1831 | 1831 | 1831 | 1831 | |
| 5° | 1834 | 1841 | 1844 | 1844 | 1844 | 176 |
| 15° | 1886 | 1861 | 1806 | 1796 | 1806 | 532 |
| 25° | 1754 | 1680 | 1573 | 1600 | 1648 | 804 |
| 35° | 1357 | 1288 | 1208 | 1243 | 1268 | 842 |
| 45° | 871 | 856 | 841 | 864 | 871 | 678 |
| 55° | 541 | 524 | 504 | 514 | 524 | 487 |
| 65° | 313 | 285 | 243 | 201 | 208 | 312 |
| 75° | 144 | 112 | 60 | 37 | 37 | 153 |
| 85° | 20 | 10 | 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° | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 |
| 2.5° | 1818.8 | 1818.8 | 1823.7 | 1828.7 | 1833.6 | 1833.6 | 1836.2 | 1838.6 | 1836.2 |
| 5° | 1833.6 | 1833.6 | 1841.1 | 1843.5 | 1843.5 | 1841.1 | 1843.5 | 1843.5 | 1843.5 |
| 7.5° | 1856.0 | 1851.0 | 1853.4 | 1848.5 | 1843.5 | 1841.1 | 1838.6 | 1838.6 | 1838.6 |
| 10° | 1863.5 | 1858.4 | 1853.4 | 1843.5 | 1831.1 | 1823.7 | 1821.2 | 1823.7 | 1823.7 |
| 12.5° | 1873.4 | 1868.4 | 1856.0 | 1836.2 | 1821.2 | 1808.8 | 1806.3 | 1811.3 | 1811.3 |
| 15° | 1885.8 | 1880.7 | 1860.9 | 1828.7 | 1806.3 | 1793.9 | 1796.4 | 1801.4 | 1806.3 |
| 17.5° | 1885.8 | 1875.8 | 1843.5 | 1801.4 | 1774.1 | 1761.7 | 1771.6 | 1784.0 | 1791.5 |
| 20° | 1856.0 | 1846.1 | 1801.4 | 1749.2 | 1717.0 | 1709.5 | 1726.9 | 1749.2 | 1756.7 |
| 22.5° | 1816.3 | 1796.4 | 1744.3 | 1682.2 | 1647.6 | 1647.6 | 1672.3 | 1699.6 | 1709.5 |
| 25° | 1754.2 | 1739.3 | 1679.8 | 1607.9 | 1573.1 | 1570.7 | 1600.4 | 1637.7 | 1647.6 |
| 27.5° | 1684.8 | 1665.0 | 1600.4 | 1526.0 | 1488.7 | 1491.2 | 1523.5 | 1560.7 | 1570.7 |
| 30° | 1585.5 | 1560.7 | 1503.7 | 1431.7 | 1396.9 | 1406.8 | 1439.1 | 1466.5 | 1478.8 |
| 32.5° | 1473.8 | 1451.5 | 1399.5 | 1332.5 | 1302.6 | 1312.5 | 1339.8 | 1364.7 | 1374.6 |
| 35° | 1357.2 | 1332.5 | 1287.8 | 1228.3 | 1208.3 | 1218.2 | 1243.1 | 1262.9 | 1267.9 |
| 37.5° | 1225.7 | 1208.3 | 1176.1 | 1129.0 | 1114.0 | 1126.5 | 1146.3 | 1158.7 | 1163.7 |
| 40° | 1104.1 | 1089.3 | 1062.0 | 1027.2 | 1022.3 | 1032.2 | 1052.1 | 1059.5 | 1062.0 |
| 42.5° | 985.1 | 972.7 | 955.3 | 930.4 | 930.4 | 940.4 | 957.8 | 962.8 | 965.2 |
| 45° | 870.9 | 863.5 | 856.0 | 836.2 | 841.2 | 853.5 | 863.5 | 870.9 | 870.9 |
| 47.5° | 771.6 | 774.2 | 764.3 | 749.3 | 754.3 | 766.7 | 774.2 | 781.5 | 781.5 |
| 50° | 694.7 | 687.2 | 677.3 | 662.5 | 670.0 | 679.9 | 689.8 | 694.7 | 697.3 |
| 52.5° | 605.4 | 603.0 | 595.5 | 578.1 | 583.0 | 588.1 | 598.0 | 605.4 | 607.9 |
| 55° | 540.9 | 533.4 | 523.5 | 503.7 | 503.7 | 508.7 | 513.6 | 518.6 | 523.5 |
| 57.5° | 478.9 | 471.5 | 456.5 | 434.2 | 431.8 | 431.8 | 429.2 | 434.2 | 441.7 |
| 60° | 416.9 | 414.4 | 392.0 | 372.2 | 364.7 | 357.3 | 347.4 | 349.9 | 359.8 |
| 62.5° | 362.2 | 357.3 | 337.5 | 312.6 | 297.7 | 285.3 | 273.0 | 270.5 | 280.4 |
| 65° | 312.6 | 307.6 | 285.3 | 260.5 | 243.2 | 220.8 | 201.0 | 201.0 | 208.4 |
| 67.5° | 267.9 | 258.0 | 238.2 | 210.9 | 188.6 | 161.3 | 141.4 | 146.3 | 148.9 |
| 70° | 223.4 | 215.9 | 193.5 | 166.3 | 139.0 | 111.7 | 99.2 | 101.8 | 101.8 |
| 72.5° | 183.6 | 173.6 | 151.4 | 124.1 | 96.7 | 72.0 | 67.0 | 64.5 | 64.5 |
| 75° | 143.9 | 134.0 | 111.7 | 84.4 | 59.5 | 42.1 | 37.2 | 37.2 | 37.2 |
| 77.5° | 104.2 | 96.7 | 76.9 | 52.0 | 32.2 | 19.8 | 17.4 | 14.9 | 14.9 |
| 80° | 72.0 | 64.5 | 47.1 | 27.3 | 12.4 | 7.5 | 7.5 | 7.5 | 7.5 |
| 82.5° | 42.1 | 34.8 | 22.3 | 12.4 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 |
| 85° | 19.8 | 14.9 | 9.9 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 2.5 | 2.5 | 2.5 | 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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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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