

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: P582537

Luminaire Tested: **HCC6W40D010MW-HM63040935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582537
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: HCC6W40D010MW-HM63040935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

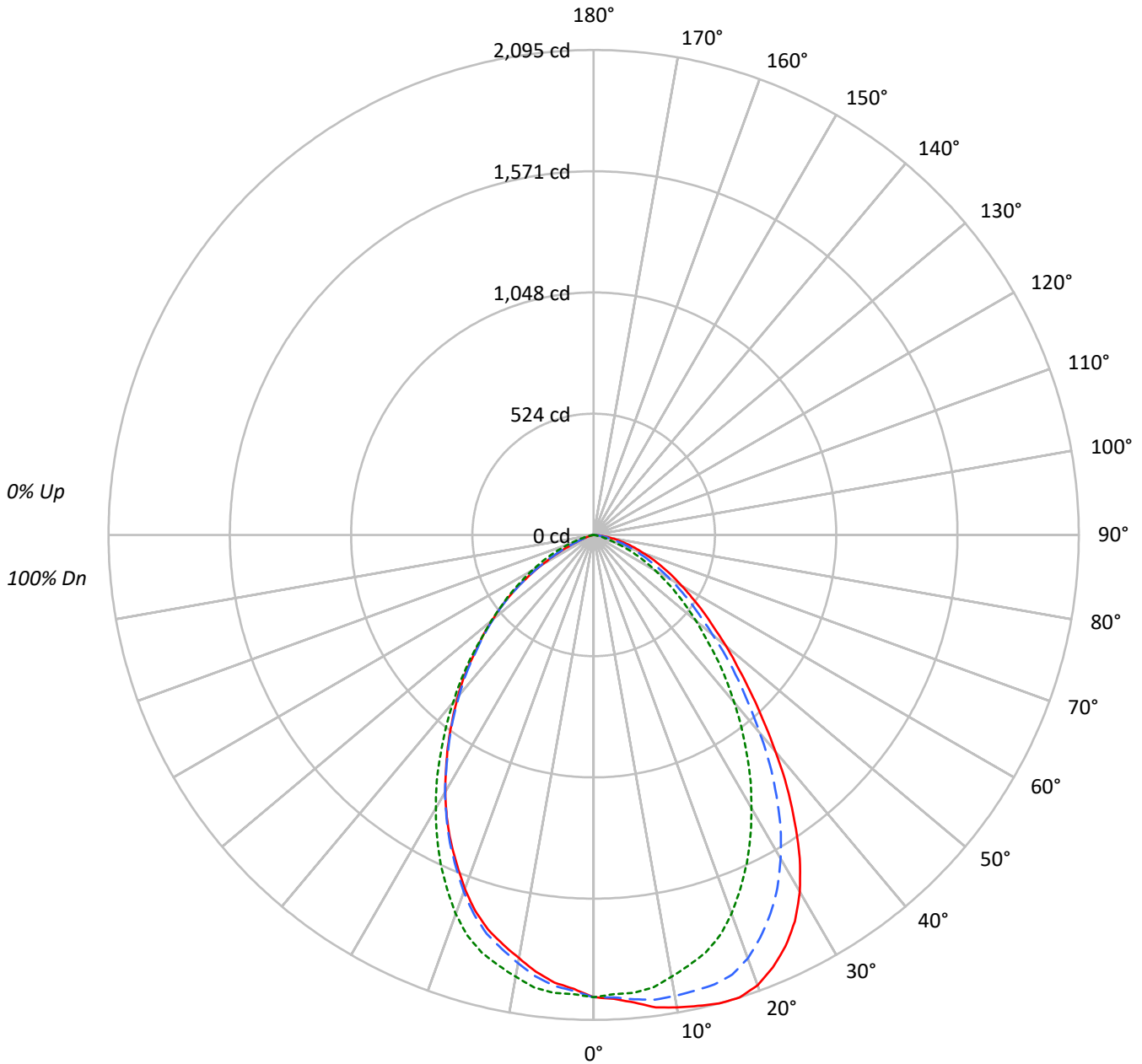
Lumens per Lamp: N/A
Luminaire Lumens: 3558.7 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | | | | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 109476 | 109476 | 109476 |
| 5° | 111589 | 109278 | 106801 |
| 10° | 115384 | 107880 | 103344 |
| 15° | 118911 | 105999 | 100108 |
| 20° | 120760 | 101585 | 94870 |
| 25° | 118579 | 94632 | 88342 |
| 30° | 112714 | 86235 | 81069 |
| 35° | 101308 | 77069 | 73113 |
| 40° | 87435 | 67534 | 65330 |
| 45° | 74039 | 58138 | 56611 |
| 50° | 63478 | 49099 | 48630 |
| 55° | 55023 | 41337 | 39731 |
| 60° | 48044 | 33561 | 28331 |
| 65° | 42261 | 25865 | 15670 |
| 70° | 36464 | 17102 | 7646 |
| 75° | 30924 | 8324 | 2965 |
| 80° | 23930 | 3536 | 1799 |
| 85° | 14089 | 1761 | 1761 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 188.4 | 5.3 |
| 10°-20° | 532.9 | 15.0 |
| 20°-30° | 750.5 | 21.1 |
| 30°-40° | 766.7 | 21.5 |
| 40°-50° | 618.2 | 17.4 |
| 50°-60° | 414.6 | 11.7 |
| 60°-70° | 209.8 | 5.9 |
| 70°-80° | 67.1 | 1.9 |
| 80°-90° | 10.3 | 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° | 1471.8 | 41.4 |
| 0°-40° | 2238.6 | 62.9 |
| 0°-60° | 3271.4 | 91.9 |
| 0°-90° | 3558.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3558.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1997 | 1997 | 1997 | 1997 | 1997 | |
| 5° | 2028 | 2014 | 1986 | 1955 | 1941 | 195 |
| 15° | 2095 | 2011 | 1868 | 1784 | 1764 | 592 |
| 25° | 1960 | 1806 | 1564 | 1469 | 1460 | 898 |
| 35° | 1514 | 1376 | 1152 | 1087 | 1092 | 942 |
| 45° | 955 | 879 | 750 | 725 | 730 | 743 |
| 55° | 576 | 511 | 432 | 413 | 416 | 518 |
| 65° | 326 | 270 | 199 | 132 | 121 | 325 |
| 75° | 146 | 104 | 39 | 14 | 14 | 157 |
| 85° | 22 | 11 | 3 | 3 | 3 | 30 |
| 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° | 1997.0 | 1997.0 | 1997.0 | 1997.0 | 1997.0 | 1997.0 | 1997.0 | 1997.0 | 1997.0 |
| 2.5° | 2005.4 | 2002.6 | 1999.7 | 1994.2 | 1985.8 | 1977.3 | 1971.6 | 1966.1 | 1963.2 |
| 5° | 2027.8 | 2022.3 | 2013.8 | 2002.6 | 1985.8 | 1966.1 | 1954.9 | 1943.5 | 1940.8 |
| 7.5° | 2058.7 | 2047.5 | 2025.1 | 1999.7 | 1971.6 | 1943.5 | 1923.9 | 1912.7 | 1904.2 |
| 10° | 2072.8 | 2053.2 | 2022.3 | 1980.1 | 1938.0 | 1904.2 | 1879.0 | 1862.2 | 1856.5 |
| 12.5° | 2084.0 | 2061.6 | 2016.6 | 1960.4 | 1904.2 | 1859.4 | 1831.3 | 1817.2 | 1811.6 |
| 15° | 2095.2 | 2072.8 | 2010.9 | 1938.0 | 1867.7 | 1814.4 | 1783.6 | 1769.4 | 1763.9 |
| 17.5° | 2095.2 | 2064.4 | 1991.3 | 1898.7 | 1814.4 | 1749.8 | 1718.9 | 1704.8 | 1702.0 |
| 20° | 2070.0 | 2036.3 | 1946.4 | 1836.8 | 1741.3 | 1668.4 | 1640.3 | 1631.9 | 1626.2 |
| 22.5° | 2022.3 | 1983.0 | 1881.8 | 1758.2 | 1654.3 | 1584.1 | 1553.3 | 1547.6 | 1541.9 |
| 25° | 1960.4 | 1921.1 | 1806.0 | 1673.9 | 1564.5 | 1494.2 | 1469.0 | 1463.3 | 1460.5 |
| 27.5° | 1881.8 | 1839.7 | 1718.9 | 1584.1 | 1466.1 | 1398.7 | 1376.2 | 1376.2 | 1373.5 |
| 30° | 1780.6 | 1732.9 | 1615.0 | 1480.2 | 1362.3 | 1300.4 | 1283.5 | 1283.5 | 1280.7 |
| 32.5° | 1657.1 | 1609.3 | 1502.6 | 1373.5 | 1261.1 | 1196.5 | 1182.5 | 1188.0 | 1185.3 |
| 35° | 1513.8 | 1474.5 | 1376.2 | 1249.9 | 1151.6 | 1092.5 | 1087.0 | 1092.5 | 1092.5 |
| 37.5° | 1370.6 | 1334.2 | 1249.9 | 1140.3 | 1047.7 | 994.3 | 994.3 | 1002.7 | 999.9 |
| 40° | 1221.8 | 1193.7 | 1115.1 | 1019.6 | 943.7 | 907.2 | 901.5 | 910.0 | 912.9 |
| 42.5° | 1081.3 | 1058.9 | 991.5 | 912.9 | 845.3 | 808.9 | 817.4 | 822.9 | 825.7 |
| 45° | 955.0 | 932.5 | 879.1 | 797.6 | 749.9 | 724.7 | 724.7 | 733.1 | 730.2 |
| 47.5° | 842.6 | 825.7 | 772.4 | 693.8 | 651.6 | 640.4 | 646.0 | 651.6 | 651.6 |
| 50° | 744.3 | 719.0 | 668.5 | 606.6 | 575.7 | 561.8 | 567.3 | 570.2 | 570.2 |
| 52.5° | 651.6 | 634.7 | 584.2 | 528.0 | 499.9 | 491.5 | 491.5 | 494.4 | 494.4 |
| 55° | 575.7 | 556.1 | 511.1 | 455.1 | 432.5 | 421.3 | 412.8 | 410.1 | 415.7 |
| 57.5° | 502.8 | 485.9 | 443.7 | 390.4 | 365.1 | 353.9 | 337.0 | 331.5 | 337.0 |
| 60° | 438.2 | 424.1 | 382.0 | 331.5 | 306.1 | 283.7 | 264.1 | 252.7 | 258.4 |
| 62.5° | 382.0 | 365.1 | 323.0 | 280.8 | 252.7 | 227.5 | 196.7 | 179.8 | 188.2 |
| 65° | 325.8 | 311.8 | 269.6 | 227.5 | 199.4 | 168.6 | 132.0 | 120.8 | 120.8 |
| 67.5° | 275.3 | 261.2 | 221.9 | 185.3 | 151.7 | 115.1 | 81.5 | 78.6 | 81.5 |
| 70° | 227.5 | 213.4 | 179.8 | 143.2 | 106.7 | 70.2 | 47.7 | 47.7 | 47.7 |
| 72.5° | 188.2 | 171.3 | 140.5 | 103.9 | 67.4 | 36.5 | 25.3 | 28.1 | 28.1 |
| 75° | 146.0 | 132.0 | 103.9 | 70.2 | 39.3 | 16.9 | 14.0 | 14.0 | 14.0 |
| 77.5° | 109.5 | 98.3 | 73.1 | 45.0 | 19.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 80° | 75.8 | 64.6 | 47.7 | 28.1 | 11.2 | 5.7 | 5.7 | 5.7 | 5.7 |
| 82.5° | 45.0 | 39.3 | 28.1 | 14.0 | 5.7 | 2.8 | 2.8 | 2.8 | 2.8 |
| 85° | 22.4 | 19.7 | 11.2 | 5.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 87.5° | 5.7 | 5.7 | 2.8 | 2.8 | 0.0 | 2.8 | 2.8 | 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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