

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: P582783

Luminaire Tested: **HCC6W50D010MB-HM64560927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582783
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: HCC6W50D010MB-HM64560927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

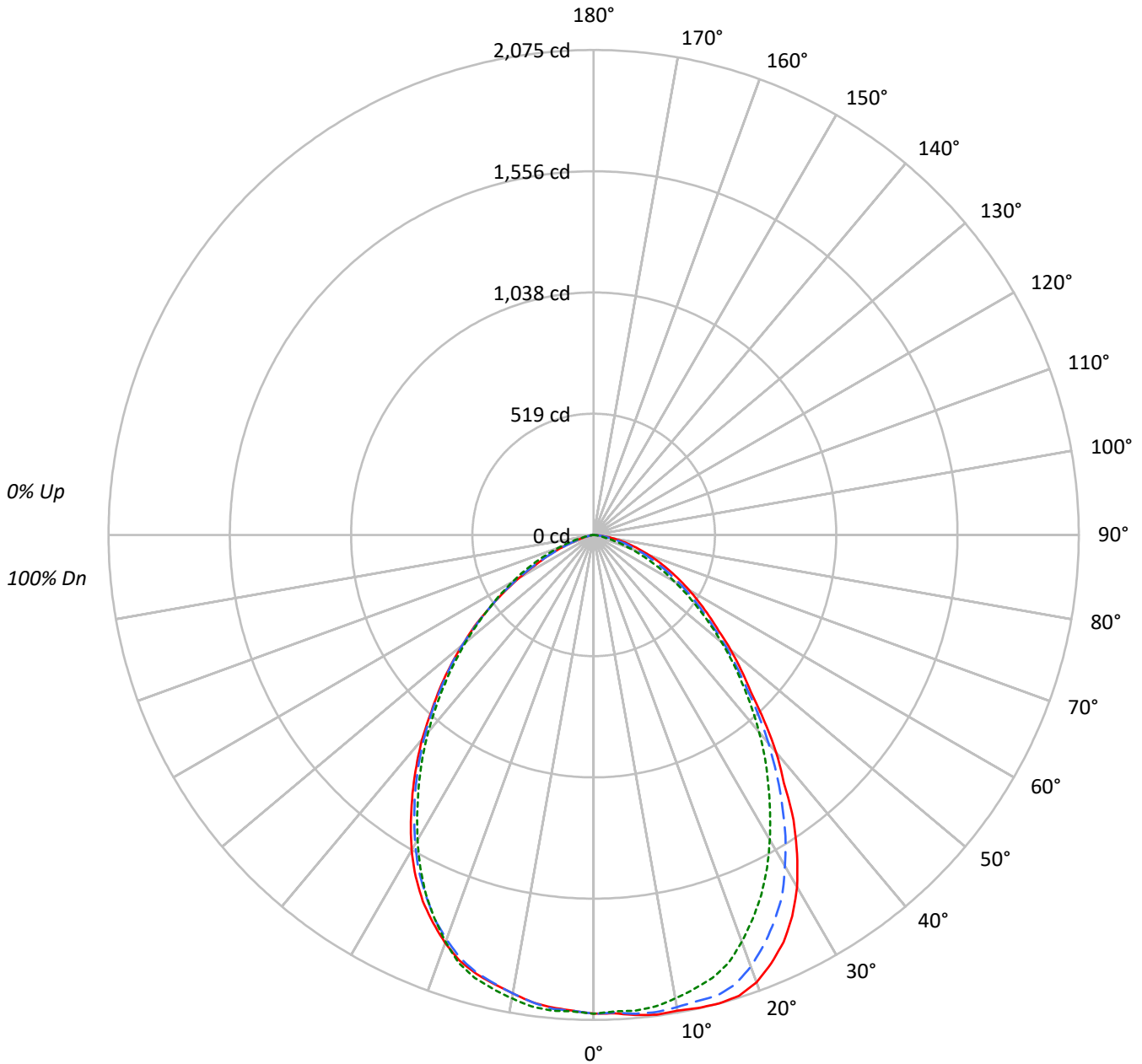
Lumens per Lamp: N/A
Luminaire Lumens: 4014.1 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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 | | | | 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 | 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° | 112305 | 112305 | 112305 |
| 5° | 113465 | 112431 | 111699 |
| 10° | 115078 | 112089 | 110892 |
| 15° | 117787 | 111385 | 110318 |
| 20° | 118882 | 108072 | 108387 |
| 25° | 116275 | 102641 | 104583 |
| 30° | 110125 | 95344 | 98566 |
| 35° | 99722 | 87147 | 90380 |
| 40° | 86848 | 78776 | 81660 |
| 45° | 73690 | 69728 | 72232 |
| 50° | 65260 | 60911 | 62505 |
| 55° | 57479 | 52089 | 51831 |
| 60° | 51509 | 43856 | 40337 |
| 65° | 45971 | 35179 | 28914 |
| 70° | 40456 | 25389 | 18080 |
| 75° | 34122 | 15356 | 10230 |
| 80° | 26298 | 6787 | 4262 |
| 85° | 15222 | 1698 | 1698 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 194.4 | 4.8 |
| 10°-20° | 558.9 | 13.9 |
| 20°-30° | 807.9 | 20.1 |
| 30°-40° | 850.0 | 21.2 |
| 40°-50° | 714.6 | 17.8 |
| 50°-60° | 501.5 | 12.5 |
| 60°-70° | 275.9 | 6.9 |
| 70°-80° | 98.0 | 2.4 |
| 80°-90° | 12.8 | 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° | 1561.2 | 38.9 |
| 0°-40° | 2411.2 | 60.1 |
| 0°-60° | 3627.4 | 90.4 |
| 0°-90° | 4014.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4014.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2049 | 2049 | 2049 | 2049 | 2049 | |
| 5° | 2062 | 2057 | 2043 | 2035 | 2030 | 197 |
| 15° | 2075 | 2040 | 1963 | 1938 | 1944 | 586 |
| 25° | 1922 | 1826 | 1697 | 1700 | 1729 | 879 |
| 35° | 1490 | 1404 | 1302 | 1329 | 1350 | 924 |
| 45° | 950 | 924 | 899 | 921 | 932 | 746 |
| 55° | 601 | 569 | 545 | 545 | 542 | 541 |
| 65° | 354 | 317 | 271 | 223 | 223 | 353 |
| 75° | 161 | 129 | 72 | 48 | 48 | 173 |
| 85° | 24 | 14 | 3 | 3 | 3 | 33 |
| 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° | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 | 2048.6 |
| 2.5° | 2048.6 | 2048.6 | 2045.8 | 2045.8 | 2040.5 | 2040.5 | 2037.8 | 2037.8 | 2037.8 |
| 5° | 2061.9 | 2061.9 | 2056.6 | 2048.6 | 2043.1 | 2035.1 | 2035.1 | 2032.4 | 2029.8 |
| 7.5° | 2070.1 | 2067.3 | 2059.3 | 2048.6 | 2035.1 | 2021.6 | 2016.3 | 2019.0 | 2016.3 |
| 10° | 2067.3 | 2061.9 | 2051.2 | 2029.8 | 2013.6 | 1994.8 | 1992.1 | 1989.5 | 1992.1 |
| 12.5° | 2072.7 | 2064.6 | 2043.1 | 2016.3 | 1989.5 | 1968.0 | 1965.3 | 1965.3 | 1968.0 |
| 15° | 2075.4 | 2067.3 | 2040.5 | 2000.3 | 1962.6 | 1941.1 | 1938.5 | 1941.1 | 1943.8 |
| 17.5° | 2067.3 | 2056.6 | 2016.3 | 1962.6 | 1919.7 | 1898.2 | 1898.2 | 1903.5 | 1909.0 |
| 20° | 2037.8 | 2021.6 | 1965.3 | 1900.8 | 1852.5 | 1836.5 | 1841.8 | 1852.5 | 1857.9 |
| 22.5° | 1984.1 | 1965.3 | 1900.8 | 1828.4 | 1777.4 | 1763.9 | 1777.4 | 1790.8 | 1796.2 |
| 25° | 1922.3 | 1900.8 | 1825.7 | 1750.5 | 1696.9 | 1680.7 | 1699.5 | 1721.0 | 1729.0 |
| 27.5° | 1839.2 | 1815.0 | 1745.2 | 1659.2 | 1605.6 | 1597.4 | 1618.9 | 1643.1 | 1648.4 |
| 30° | 1739.7 | 1712.9 | 1635.1 | 1554.6 | 1506.2 | 1503.5 | 1527.6 | 1549.1 | 1557.1 |
| 32.5° | 1618.9 | 1594.8 | 1527.6 | 1447.1 | 1404.2 | 1404.2 | 1428.3 | 1447.1 | 1455.2 |
| 35° | 1490.1 | 1463.3 | 1404.2 | 1337.0 | 1302.2 | 1304.9 | 1329.0 | 1342.4 | 1350.5 |
| 37.5° | 1337.0 | 1329.0 | 1283.4 | 1226.9 | 1202.8 | 1208.2 | 1226.9 | 1237.7 | 1245.7 |
| 40° | 1213.6 | 1192.1 | 1162.6 | 1116.9 | 1100.8 | 1106.1 | 1124.9 | 1135.6 | 1141.1 |
| 42.5° | 1079.3 | 1065.9 | 1041.8 | 1009.5 | 998.8 | 1006.8 | 1023.0 | 1031.0 | 1028.3 |
| 45° | 950.5 | 947.8 | 923.5 | 904.8 | 899.4 | 910.2 | 920.9 | 929.0 | 931.7 |
| 47.5° | 856.5 | 845.7 | 824.2 | 810.9 | 805.4 | 816.2 | 826.9 | 832.3 | 832.3 |
| 50° | 765.2 | 754.4 | 732.9 | 719.6 | 714.2 | 724.9 | 732.9 | 738.4 | 732.9 |
| 52.5° | 673.9 | 663.1 | 644.4 | 628.3 | 625.6 | 630.9 | 633.6 | 636.3 | 641.6 |
| 55° | 601.4 | 590.6 | 569.2 | 550.3 | 545.0 | 547.7 | 545.0 | 545.0 | 542.3 |
| 57.5° | 531.6 | 520.8 | 499.3 | 478.0 | 469.8 | 467.2 | 459.1 | 456.5 | 453.7 |
| 60° | 469.8 | 456.5 | 435.0 | 410.8 | 400.0 | 389.3 | 375.9 | 367.9 | 367.9 |
| 62.5° | 410.8 | 397.4 | 373.2 | 351.7 | 335.6 | 316.9 | 295.4 | 284.6 | 284.6 |
| 65° | 354.4 | 343.7 | 316.9 | 292.7 | 271.2 | 246.9 | 222.9 | 217.4 | 222.9 |
| 67.5° | 300.7 | 289.9 | 263.1 | 238.9 | 212.1 | 182.6 | 161.1 | 161.1 | 166.4 |
| 70° | 252.4 | 241.6 | 217.4 | 187.9 | 158.4 | 128.8 | 112.8 | 112.8 | 112.8 |
| 72.5° | 206.7 | 196.0 | 169.1 | 142.3 | 112.8 | 83.3 | 75.2 | 77.8 | 75.2 |
| 75° | 161.1 | 153.1 | 128.8 | 99.3 | 72.5 | 51.0 | 48.3 | 45.6 | 48.3 |
| 77.5° | 120.8 | 112.8 | 91.3 | 64.5 | 40.3 | 29.5 | 26.8 | 26.8 | 26.8 |
| 80° | 83.3 | 75.2 | 59.0 | 37.6 | 21.5 | 13.5 | 13.5 | 13.5 | 13.5 |
| 82.5° | 51.0 | 43.0 | 32.2 | 18.8 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 85° | 24.2 | 18.8 | 13.5 | 5.3 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 87.5° | 5.3 | 5.3 | 2.7 | 2.7 | 0.0 | 2.7 | 2.7 | 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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