

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: P582459

Luminaire Tested: **HCC6W40D010MB-HM63040835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582459
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: HCC6W40D010MB-HM63040835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

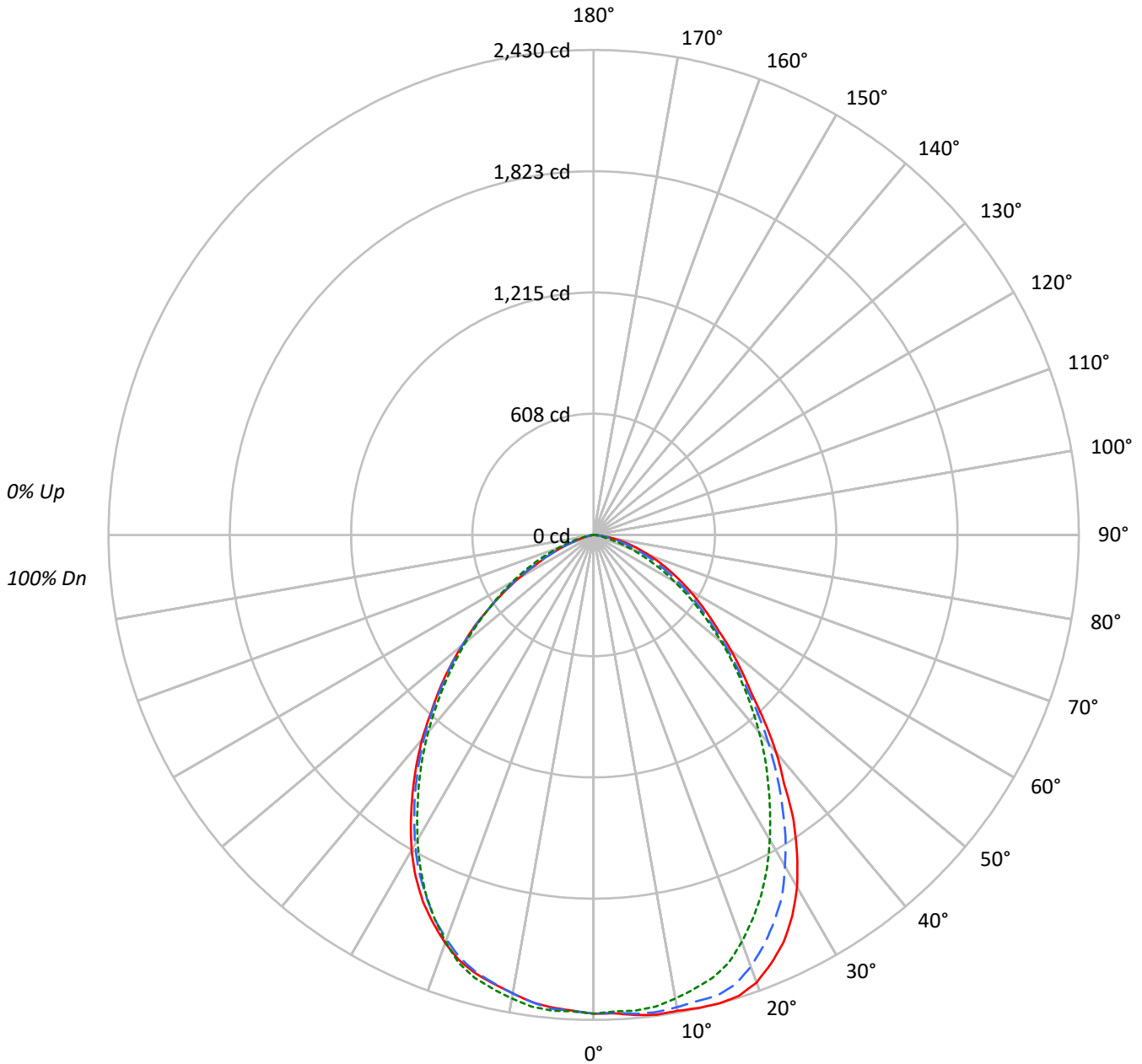
Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | |
| 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 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 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° | 131519 | 131519 | 131519 |
| 5° | 132885 | 131675 | 130811 |
| 10° | 134778 | 131271 | 129868 |
| 15° | 137941 | 130449 | 129201 |
| 20° | 139225 | 126571 | 126933 |
| 25° | 136175 | 120200 | 122481 |
| 30° | 128976 | 111656 | 115435 |
| 35° | 116781 | 102058 | 105846 |
| 40° | 101705 | 92259 | 95629 |
| 45° | 86296 | 81667 | 84590 |
| 50° | 76424 | 71332 | 73209 |
| 55° | 67314 | 61006 | 60700 |
| 60° | 60335 | 51366 | 47233 |
| 65° | 53845 | 41198 | 33856 |
| 70° | 47380 | 29733 | 21157 |
| 75° | 39947 | 17983 | 11988 |
| 80° | 30780 | 7956 | 4956 |
| 85° | 17863 | 2013 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 227.7 | 4.8 |
| 10°-20° | 654.5 | 13.9 |
| 20°-30° | 946.1 | 20.1 |
| 30°-40° | 995.5 | 21.2 |
| 40°-50° | 836.9 | 17.8 |
| 50°-60° | 587.4 | 12.5 |
| 60°-70° | 323.1 | 6.9 |
| 70°-80° | 114.7 | 2.4 |
| 80°-90° | 15.0 | 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° | 1828.4 | 38.9 |
| 0°-40° | 2823.9 | 60.1 |
| 0°-60° | 4248.1 | 90.4 |
| 0°-90° | 4701.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4701.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2399 | 2399 | 2399 | 2399 | 2399 | |
| 5° | 2415 | 2408 | 2393 | 2383 | 2377 | 231 |
| 15° | 2430 | 2390 | 2298 | 2270 | 2276 | 686 |
| 25° | 2251 | 2138 | 1987 | 1990 | 2025 | 1030 |
| 35° | 1745 | 1644 | 1525 | 1556 | 1582 | 1082 |
| 45° | 1113 | 1082 | 1053 | 1078 | 1091 | 873 |
| 55° | 704 | 667 | 638 | 638 | 635 | 634 |
| 65° | 415 | 371 | 318 | 261 | 261 | 413 |
| 75° | 189 | 151 | 85 | 57 | 57 | 203 |
| 85° | 28 | 16 | 3 | 3 | 3 | 39 |
| 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° | 2399.1 | 2399.1 | 2399.1 | 2399.1 | 2399.1 | 2399.1 | 2399.1 | 2399.1 | 2399.1 |
| 2.5° | 2399.1 | 2399.1 | 2396.0 | 2396.0 | 2389.6 | 2389.6 | 2386.5 | 2386.5 | 2386.5 |
| 5° | 2414.8 | 2414.8 | 2408.5 | 2399.1 | 2392.8 | 2383.4 | 2383.4 | 2380.3 | 2377.1 |
| 7.5° | 2424.2 | 2421.2 | 2411.7 | 2399.1 | 2383.4 | 2367.6 | 2361.4 | 2364.6 | 2361.4 |
| 10° | 2421.2 | 2414.8 | 2402.3 | 2377.1 | 2358.2 | 2336.2 | 2333.0 | 2329.9 | 2333.0 |
| 12.5° | 2427.4 | 2418.0 | 2392.8 | 2361.4 | 2329.9 | 2304.8 | 2301.7 | 2301.7 | 2304.8 |
| 15° | 2430.5 | 2421.2 | 2389.6 | 2342.5 | 2298.5 | 2273.3 | 2270.1 | 2273.3 | 2276.5 |
| 17.5° | 2421.2 | 2408.5 | 2361.4 | 2298.5 | 2248.2 | 2223.0 | 2223.0 | 2229.2 | 2235.6 |
| 20° | 2386.5 | 2367.6 | 2301.7 | 2226.2 | 2169.6 | 2150.8 | 2157.0 | 2169.6 | 2175.8 |
| 22.5° | 2323.7 | 2301.7 | 2226.2 | 2141.3 | 2081.5 | 2065.8 | 2081.5 | 2097.2 | 2103.5 |
| 25° | 2251.3 | 2226.2 | 2138.1 | 2050.1 | 1987.2 | 1968.3 | 1990.4 | 2015.4 | 2024.9 |
| 27.5° | 2153.8 | 2125.6 | 2043.8 | 1943.2 | 1880.2 | 1870.9 | 1896.1 | 1924.3 | 1930.6 |
| 30° | 2037.5 | 2006.1 | 1914.9 | 1820.5 | 1763.9 | 1760.9 | 1789.1 | 1814.3 | 1823.6 |
| 32.5° | 1896.1 | 1867.7 | 1789.1 | 1694.8 | 1644.5 | 1644.5 | 1672.8 | 1694.8 | 1704.1 |
| 35° | 1745.0 | 1713.6 | 1644.5 | 1565.9 | 1525.0 | 1528.1 | 1556.4 | 1572.1 | 1581.6 |
| 37.5° | 1565.9 | 1556.4 | 1503.0 | 1436.9 | 1408.7 | 1414.9 | 1436.9 | 1449.6 | 1458.9 |
| 40° | 1421.2 | 1396.0 | 1361.5 | 1308.1 | 1289.2 | 1295.4 | 1317.4 | 1330.1 | 1336.3 |
| 42.5° | 1264.0 | 1248.3 | 1219.9 | 1182.2 | 1169.7 | 1179.1 | 1197.9 | 1207.4 | 1204.2 |
| 45° | 1113.1 | 1109.9 | 1081.6 | 1059.7 | 1053.4 | 1065.9 | 1078.5 | 1087.9 | 1091.1 |
| 47.5° | 1003.0 | 990.4 | 965.2 | 949.5 | 943.3 | 955.9 | 968.4 | 974.7 | 974.7 |
| 50° | 896.1 | 883.6 | 858.4 | 842.7 | 836.4 | 848.9 | 858.4 | 864.7 | 858.4 |
| 52.5° | 789.2 | 776.6 | 754.6 | 735.7 | 732.6 | 738.9 | 742.1 | 745.2 | 751.4 |
| 55° | 704.3 | 691.7 | 666.6 | 644.6 | 638.3 | 641.4 | 638.3 | 638.3 | 635.1 |
| 57.5° | 622.6 | 610.0 | 584.8 | 559.7 | 550.3 | 547.1 | 537.6 | 534.6 | 531.4 |
| 60° | 550.3 | 534.6 | 509.4 | 481.0 | 468.5 | 456.0 | 440.2 | 430.8 | 430.8 |
| 62.5° | 481.0 | 465.3 | 437.1 | 411.9 | 393.1 | 371.0 | 345.8 | 333.3 | 333.3 |
| 65° | 415.1 | 402.4 | 371.0 | 342.7 | 317.6 | 289.3 | 261.0 | 254.7 | 261.0 |
| 67.5° | 352.2 | 339.6 | 308.1 | 279.9 | 248.4 | 213.8 | 188.6 | 188.6 | 194.9 |
| 70° | 295.6 | 282.9 | 254.7 | 220.1 | 185.5 | 150.9 | 132.0 | 132.0 | 132.0 |
| 72.5° | 242.2 | 229.5 | 198.1 | 166.6 | 132.0 | 97.5 | 88.0 | 91.1 | 88.0 |
| 75° | 188.6 | 179.3 | 150.9 | 116.3 | 84.9 | 59.8 | 56.6 | 53.4 | 56.6 |
| 77.5° | 141.5 | 132.0 | 107.0 | 75.4 | 47.2 | 34.6 | 31.4 | 31.4 | 31.4 |
| 80° | 97.5 | 88.0 | 69.1 | 44.1 | 25.2 | 15.7 | 15.7 | 15.7 | 15.7 |
| 82.5° | 59.8 | 50.3 | 37.7 | 22.0 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 85° | 28.4 | 22.0 | 15.7 | 6.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 6.3 | 6.3 | 3.2 | 3.2 | 0.0 | 3.2 | 3.2 | 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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