

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: P582483

Luminaire Tested: **HCC6W40D010MB-HM63040840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582483
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: HCC6W40D010MB-HM63040840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

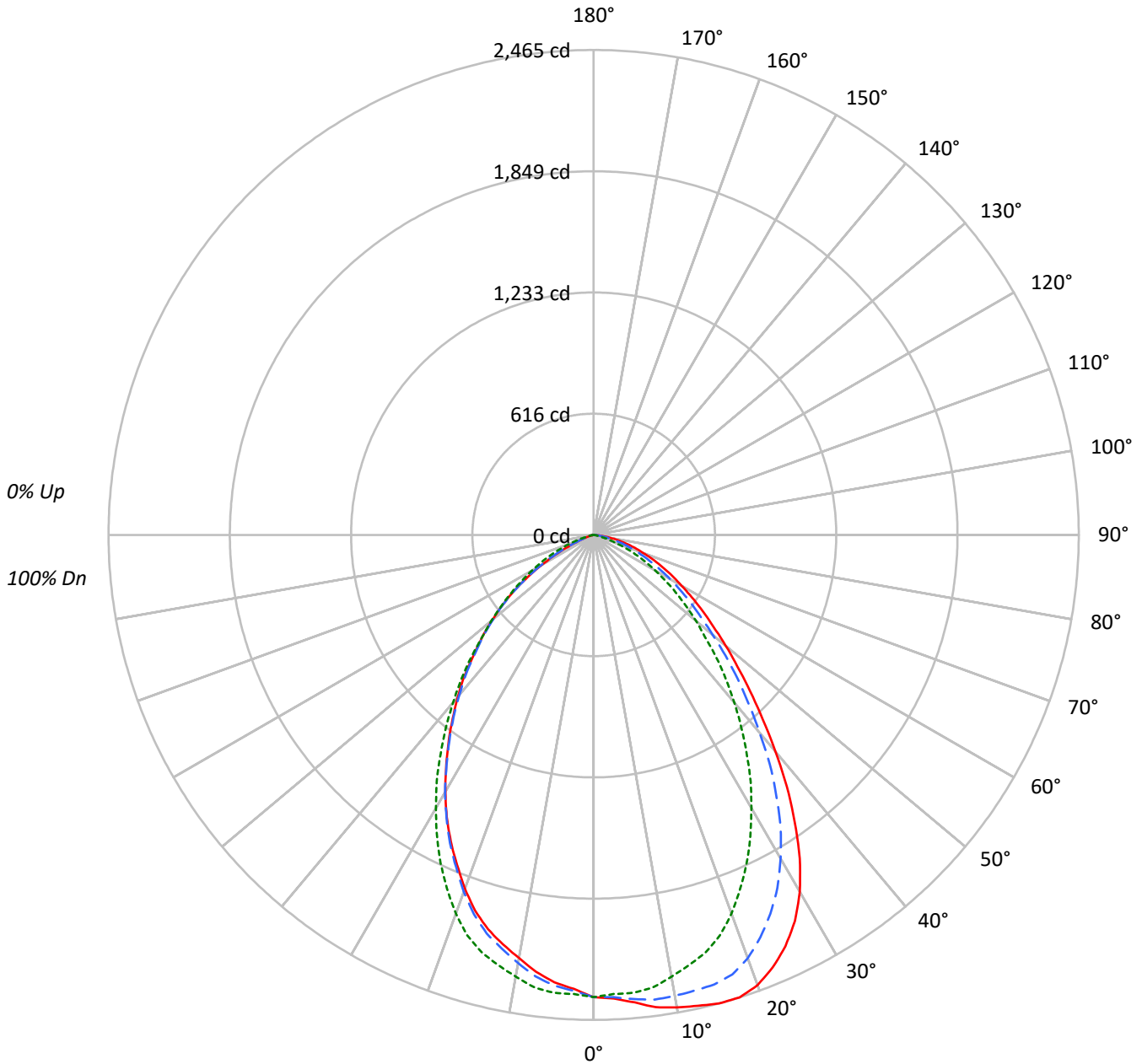
Lumens per Lamp: N/A
Luminaire Lumens: 4186.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 128773 | 128773 | 128773 |
| 5° | 131268 | 128538 | 125627 |
| 10° | 135730 | 126896 | 121569 |
| 15° | 139882 | 124694 | 117753 |
| 20° | 142054 | 119500 | 111596 |
| 25° | 139490 | 111315 | 103917 |
| 30° | 132596 | 101427 | 95369 |
| 35° | 119177 | 90654 | 86010 |
| 40° | 102850 | 79442 | 76844 |
| 45° | 87087 | 68387 | 66604 |
| 50° | 74676 | 57764 | 57201 |
| 55° | 64734 | 48620 | 46737 |
| 60° | 56520 | 39481 | 33320 |
| 65° | 49720 | 30418 | 18433 |
| 70° | 42892 | 20132 | 9008 |
| 75° | 36410 | 9807 | 3495 |
| 80° | 28160 | 4167 | 2084 |
| 85° | 16605 | 2076 | 2076 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 221.7 | 5.3 |
| 10°-20° | 626.9 | 15.0 |
| 20°-30° | 882.8 | 21.1 |
| 30°-40° | 901.9 | 21.5 |
| 40°-50° | 727.2 | 17.4 |
| 50°-60° | 487.8 | 11.7 |
| 60°-70° | 246.8 | 5.9 |
| 70°-80° | 78.9 | 1.9 |
| 80°-90° | 12.1 | 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° | 1731.3 | 41.4 |
| 0°-40° | 2633.3 | 62.9 |
| 0°-60° | 3848.2 | 91.9 |
| 0°-90° | 4186.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4186.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2349 | 2349 | 2349 | 2349 | 2349 | |
| 5° | 2385 | 2369 | 2336 | 2300 | 2283 | 230 |
| 15° | 2465 | 2366 | 2197 | 2098 | 2075 | 696 |
| 25° | 2306 | 2124 | 1840 | 1728 | 1718 | 1056 |
| 35° | 1781 | 1619 | 1355 | 1279 | 1285 | 1108 |
| 45° | 1123 | 1034 | 882 | 852 | 859 | 874 |
| 55° | 677 | 601 | 509 | 486 | 489 | 609 |
| 65° | 383 | 317 | 234 | 155 | 142 | 383 |
| 75° | 172 | 122 | 46 | 16 | 16 | 185 |
| 85° | 26 | 13 | 3 | 3 | 3 | 35 |
| 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° | 2349.0 | 2349.0 | 2349.0 | 2349.0 | 2349.0 | 2349.0 | 2349.0 | 2349.0 | 2349.0 |
| 2.5° | 2359.0 | 2355.7 | 2352.3 | 2345.7 | 2335.8 | 2325.9 | 2319.3 | 2312.7 | 2309.4 |
| 5° | 2385.4 | 2378.8 | 2368.9 | 2355.7 | 2335.8 | 2312.7 | 2299.5 | 2286.2 | 2282.9 |
| 7.5° | 2421.7 | 2408.5 | 2382.1 | 2352.3 | 2319.3 | 2286.2 | 2263.1 | 2250.0 | 2240.1 |
| 10° | 2438.3 | 2415.1 | 2378.8 | 2329.2 | 2279.6 | 2240.1 | 2210.2 | 2190.5 | 2183.9 |
| 12.5° | 2451.5 | 2425.1 | 2372.2 | 2306.1 | 2240.1 | 2187.2 | 2154.2 | 2137.6 | 2131.0 |
| 15° | 2464.7 | 2438.3 | 2365.6 | 2279.6 | 2197.1 | 2134.3 | 2098.0 | 2081.4 | 2074.8 |
| 17.5° | 2464.7 | 2428.4 | 2342.4 | 2233.5 | 2134.3 | 2058.3 | 2022.0 | 2005.4 | 2002.1 |
| 20° | 2435.0 | 2395.3 | 2289.7 | 2160.8 | 2048.4 | 1962.5 | 1929.4 | 1919.5 | 1912.9 |
| 22.5° | 2378.8 | 2332.5 | 2213.5 | 2068.2 | 1946.1 | 1863.4 | 1827.1 | 1820.5 | 1813.9 |
| 25° | 2306.1 | 2259.8 | 2124.4 | 1969.1 | 1840.3 | 1757.7 | 1727.9 | 1721.3 | 1718.0 |
| 27.5° | 2213.5 | 2164.1 | 2022.0 | 1863.4 | 1724.6 | 1645.3 | 1618.9 | 1618.9 | 1615.6 |
| 30° | 2094.7 | 2038.5 | 1899.8 | 1741.2 | 1602.3 | 1529.6 | 1509.9 | 1509.9 | 1506.6 |
| 32.5° | 1949.4 | 1893.2 | 1767.6 | 1615.6 | 1483.5 | 1407.5 | 1390.9 | 1397.5 | 1394.2 |
| 35° | 1780.8 | 1734.5 | 1618.9 | 1470.3 | 1354.6 | 1285.2 | 1278.6 | 1285.2 | 1285.2 |
| 37.5° | 1612.3 | 1569.3 | 1470.3 | 1341.4 | 1232.3 | 1169.6 | 1169.6 | 1179.4 | 1176.2 |
| 40° | 1437.2 | 1404.2 | 1311.6 | 1199.4 | 1110.1 | 1067.2 | 1060.6 | 1070.5 | 1073.8 |
| 42.5° | 1272.0 | 1245.5 | 1166.3 | 1073.8 | 994.5 | 951.5 | 961.4 | 968.0 | 971.3 |
| 45° | 1123.3 | 1096.9 | 1034.1 | 938.3 | 882.1 | 852.3 | 852.3 | 862.4 | 859.1 |
| 47.5° | 991.2 | 971.3 | 908.5 | 816.1 | 766.5 | 753.3 | 759.9 | 766.5 | 766.5 |
| 50° | 875.6 | 845.7 | 786.4 | 713.6 | 677.3 | 660.8 | 667.4 | 670.7 | 670.7 |
| 52.5° | 766.5 | 746.7 | 687.2 | 621.1 | 588.1 | 578.1 | 578.1 | 581.5 | 581.5 |
| 55° | 677.3 | 654.2 | 601.3 | 535.3 | 508.7 | 495.5 | 485.7 | 482.4 | 489.0 |
| 57.5° | 591.4 | 571.5 | 522.1 | 459.3 | 429.5 | 416.3 | 396.5 | 389.9 | 396.5 |
| 60° | 515.5 | 498.8 | 449.4 | 389.9 | 360.1 | 333.7 | 310.6 | 297.3 | 303.9 |
| 62.5° | 449.4 | 429.5 | 380.0 | 330.4 | 297.3 | 267.6 | 231.2 | 211.4 | 221.3 |
| 65° | 383.3 | 366.7 | 317.2 | 267.6 | 234.5 | 198.2 | 155.2 | 142.1 | 142.1 |
| 67.5° | 323.8 | 307.3 | 261.0 | 218.0 | 178.5 | 135.5 | 95.8 | 92.5 | 95.8 |
| 70° | 267.6 | 251.1 | 211.4 | 168.4 | 125.6 | 82.6 | 56.2 | 56.2 | 56.2 |
| 72.5° | 221.3 | 201.5 | 165.1 | 122.3 | 79.3 | 43.0 | 29.7 | 33.0 | 33.0 |
| 75° | 171.9 | 155.2 | 122.3 | 82.6 | 46.3 | 19.8 | 16.5 | 16.5 | 16.5 |
| 77.5° | 128.9 | 115.7 | 85.9 | 52.9 | 23.1 | 6.6 | 6.6 | 6.6 | 6.6 |
| 80° | 89.2 | 76.0 | 56.2 | 33.0 | 13.2 | 6.6 | 6.6 | 6.6 | 6.6 |
| 82.5° | 52.9 | 46.3 | 33.0 | 16.5 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 26.4 | 23.1 | 13.2 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 87.5° | 6.6 | 6.6 | 3.3 | 3.3 | 0.0 | 3.3 | 3.3 | 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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