

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: P582692

Luminaire Tested: **HCC6S45D010MB-HM64560940-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582692
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: HCC6S45D010MB-HM64560940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

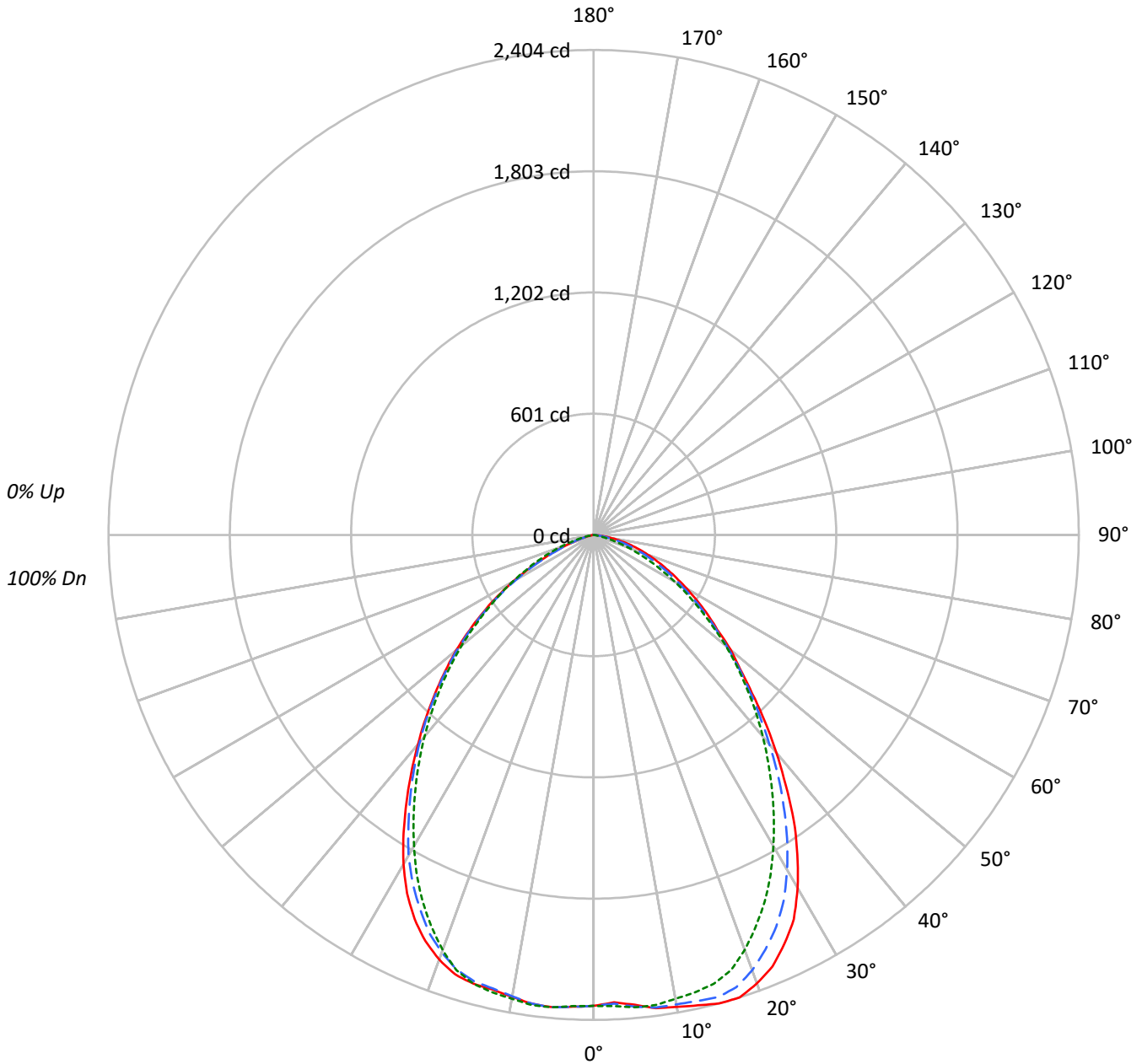
Lumens per Lamp: N/A
Luminaire Lumens: 4713.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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 | 100 | 100 | 100 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | 88 | 88 | 88 |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | 77 | 77 | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | 68 | 68 | 68 |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | 60 | 60 | 60 |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | 53 | 53 | 53 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | 47 | 47 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | 42 | 42 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | 38 | 38 | 38 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | 35 | 35 | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | 32 | 32 | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 127989 | 127989 | 127989 |
| 5° | 128654 | 129347 | 129347 |
| 10° | 132251 | 129963 | 129434 |
| 15° | 136454 | 130710 | 130710 |
| 20° | 138046 | 127714 | 130666 |
| 25° | 135292 | 121320 | 127060 |
| 30° | 127963 | 112745 | 119354 |
| 35° | 115804 | 103102 | 108181 |
| 40° | 100739 | 93268 | 96896 |
| 45° | 86086 | 83148 | 86086 |
| 50° | 75537 | 72850 | 75810 |
| 55° | 65909 | 61379 | 63807 |
| 60° | 58274 | 50994 | 50303 |
| 65° | 51705 | 40212 | 34465 |
| 70° | 45633 | 28386 | 20789 |
| 75° | 38867 | 16076 | 10061 |
| 80° | 28949 | 4988 | 2999 |
| 85° | 15913 | 2013 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 224.0 | 4.8 |
| 10°-20° | 655.2 | 13.9 |
| 20°-30° | 957.0 | 20.3 |
| 30°-40° | 1003.6 | 21.3 |
| 40°-50° | 845.5 | 17.9 |
| 50°-60° | 592.4 | 12.6 |
| 60°-70° | 317.6 | 6.7 |
| 70°-80° | 106.5 | 2.3 |
| 80°-90° | 11.6 | 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° | 1836.2 | 39.0 |
| 0°-40° | 2839.8 | 60.2 |
| 0°-60° | 4277.8 | 90.8 |
| 0°-90° | 4713.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4713.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2335 | 2335 | 2335 | 2335 | 2335 | |
| 5° | 2338 | 2347 | 2350 | 2350 | 2350 | 225 |
| 15° | 2404 | 2373 | 2303 | 2290 | 2303 | 678 |
| 25° | 2237 | 2142 | 2006 | 2040 | 2101 | 1025 |
| 35° | 1730 | 1642 | 1541 | 1585 | 1616 | 1074 |
| 45° | 1110 | 1092 | 1072 | 1101 | 1110 | 865 |
| 55° | 690 | 668 | 642 | 655 | 668 | 621 |
| 65° | 399 | 364 | 310 | 256 | 266 | 398 |
| 75° | 184 | 142 | 76 | 48 | 48 | 195 |
| 85° | 25 | 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° | 2334.7 | 2334.7 | 2334.7 | 2334.7 | 2334.7 | 2334.7 | 2334.7 | 2334.7 | 2334.7 |
| 2.5° | 2318.9 | 2318.9 | 2325.2 | 2331.6 | 2337.9 | 2337.9 | 2341.1 | 2344.2 | 2341.1 |
| 5° | 2337.9 | 2337.9 | 2347.3 | 2350.5 | 2350.5 | 2347.3 | 2350.5 | 2350.5 | 2350.5 |
| 7.5° | 2366.3 | 2360.0 | 2363.1 | 2356.8 | 2350.5 | 2347.3 | 2344.2 | 2344.2 | 2344.2 |
| 10° | 2375.8 | 2369.5 | 2363.1 | 2350.5 | 2334.7 | 2325.2 | 2322.1 | 2325.2 | 2325.2 |
| 12.5° | 2388.5 | 2382.1 | 2366.3 | 2341.1 | 2322.1 | 2306.2 | 2303.1 | 2309.4 | 2309.4 |
| 15° | 2404.3 | 2398.0 | 2372.6 | 2331.6 | 2303.1 | 2287.2 | 2290.4 | 2296.7 | 2303.1 |
| 17.5° | 2404.3 | 2391.6 | 2350.5 | 2296.7 | 2261.9 | 2246.1 | 2258.7 | 2274.6 | 2284.1 |
| 20° | 2366.3 | 2353.6 | 2296.7 | 2230.3 | 2189.2 | 2179.7 | 2201.8 | 2230.3 | 2239.8 |
| 22.5° | 2315.7 | 2290.4 | 2224.0 | 2144.8 | 2100.6 | 2100.6 | 2132.3 | 2167.0 | 2179.7 |
| 25° | 2236.7 | 2217.7 | 2141.7 | 2049.9 | 2005.7 | 2002.5 | 2040.4 | 2087.9 | 2100.6 |
| 27.5° | 2148.0 | 2122.8 | 2040.4 | 1945.5 | 1898.1 | 1901.3 | 1942.4 | 1989.9 | 2002.5 |
| 30° | 2021.5 | 1989.9 | 1917.2 | 1825.3 | 1781.1 | 1793.8 | 1834.8 | 1869.6 | 1885.5 |
| 32.5° | 1879.1 | 1850.6 | 1784.3 | 1698.9 | 1660.9 | 1673.5 | 1708.4 | 1739.9 | 1752.6 |
| 35° | 1730.4 | 1698.9 | 1641.8 | 1566.0 | 1540.6 | 1553.3 | 1585.0 | 1610.3 | 1616.5 |
| 37.5° | 1562.8 | 1540.6 | 1499.6 | 1439.4 | 1420.4 | 1436.2 | 1461.6 | 1477.4 | 1483.7 |
| 40° | 1407.7 | 1388.8 | 1354.0 | 1309.7 | 1303.3 | 1316.0 | 1341.3 | 1350.8 | 1354.0 |
| 42.5° | 1255.9 | 1240.1 | 1217.9 | 1186.4 | 1186.4 | 1198.9 | 1221.1 | 1227.4 | 1230.6 |
| 45° | 1110.4 | 1100.9 | 1091.5 | 1066.1 | 1072.5 | 1088.3 | 1100.9 | 1110.4 | 1110.4 |
| 47.5° | 983.9 | 987.1 | 974.4 | 955.4 | 961.7 | 977.6 | 987.1 | 996.5 | 996.5 |
| 50° | 885.7 | 876.3 | 863.7 | 844.7 | 854.2 | 866.8 | 879.5 | 885.7 | 888.9 |
| 52.5° | 772.0 | 768.8 | 759.3 | 737.1 | 743.4 | 749.8 | 762.4 | 772.0 | 775.1 |
| 55° | 689.6 | 680.1 | 667.6 | 642.2 | 642.2 | 648.6 | 654.9 | 661.2 | 667.6 |
| 57.5° | 610.5 | 601.0 | 582.0 | 553.7 | 550.5 | 550.5 | 547.3 | 553.7 | 563.2 |
| 60° | 531.5 | 528.3 | 499.8 | 474.5 | 465.1 | 455.6 | 442.9 | 446.1 | 458.8 |
| 62.5° | 461.9 | 455.6 | 430.3 | 398.6 | 379.6 | 363.9 | 348.0 | 344.9 | 357.5 |
| 65° | 398.6 | 392.3 | 363.9 | 332.2 | 310.0 | 281.5 | 256.3 | 256.3 | 265.7 |
| 67.5° | 341.7 | 329.0 | 303.7 | 268.9 | 240.5 | 205.6 | 180.3 | 186.6 | 189.8 |
| 70° | 284.7 | 275.2 | 246.8 | 212.0 | 177.1 | 142.4 | 126.6 | 129.7 | 129.7 |
| 72.5° | 234.1 | 221.5 | 193.0 | 158.1 | 123.4 | 91.7 | 85.4 | 82.2 | 82.2 |
| 75° | 183.5 | 170.8 | 142.4 | 107.6 | 75.9 | 53.7 | 47.5 | 47.5 | 47.5 |
| 77.5° | 132.9 | 123.4 | 98.1 | 66.4 | 41.2 | 25.3 | 22.2 | 19.0 | 19.0 |
| 80° | 91.7 | 82.2 | 60.1 | 34.8 | 15.8 | 9.5 | 9.5 | 9.5 | 9.5 |
| 82.5° | 53.7 | 44.3 | 28.5 | 15.8 | 6.3 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 25.3 | 19.0 | 12.7 | 6.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 3.2 | 3.2 | 3.2 | 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



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Scaled Data Report



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

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