

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: P582591

Luminaire Tested: **HCC6S45D010MW-HM64560830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582591
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: HCC6S45D010MW-HM64560830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

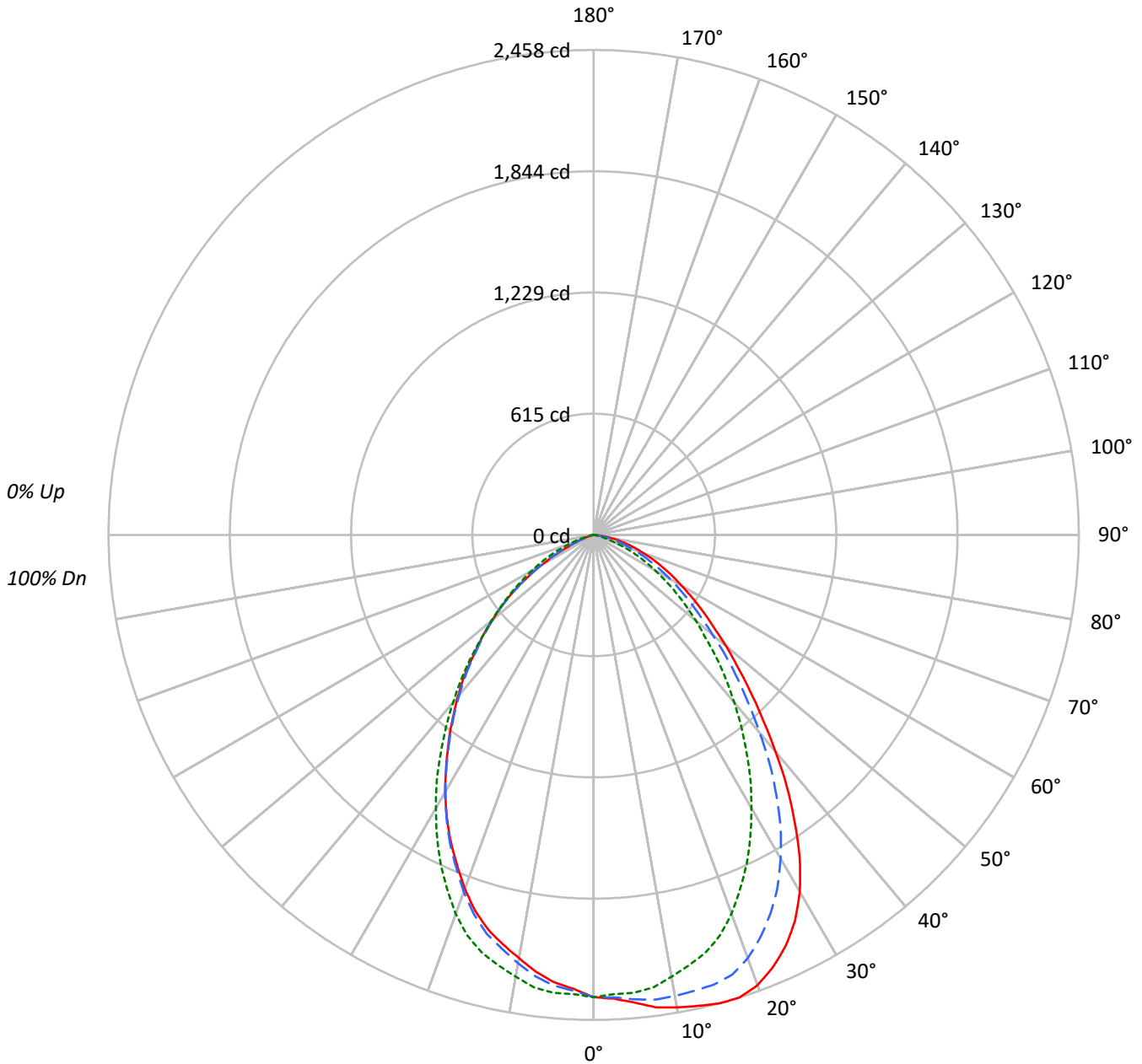
Lumens per Lamp: N/A
Luminaire Lumens: 4174.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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° | 128427 | 128427 | 128427 |
| 5° | 130915 | 128197 | 125291 |
| 10° | 135357 | 126556 | 121235 |
| 15° | 139501 | 124359 | 117435 |
| 20° | 141663 | 119180 | 111298 |
| 25° | 139115 | 111012 | 103639 |
| 30° | 132236 | 101161 | 95110 |
| 35° | 118849 | 90406 | 85775 |
| 40° | 102571 | 79227 | 76629 |
| 45° | 86854 | 68209 | 66410 |
| 50° | 74471 | 57602 | 57039 |
| 55° | 64552 | 48495 | 46603 |
| 60° | 56355 | 39383 | 33232 |
| 65° | 49577 | 30340 | 18381 |
| 70° | 42780 | 20067 | 8992 |
| 75° | 36304 | 9764 | 3474 |
| 80° | 28065 | 4136 | 2084 |
| 85° | 16605 | 2076 | 2076 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 221.1 | 5.3 |
| 10°-20° | 625.2 | 15.0 |
| 20°-30° | 880.4 | 21.1 |
| 30°-40° | 899.5 | 21.5 |
| 40°-50° | 725.2 | 17.4 |
| 50°-60° | 486.4 | 11.7 |
| 60°-70° | 246.2 | 5.9 |
| 70°-80° | 78.7 | 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° | 1726.6 | 41.4 |
| 0°-40° | 2626.1 | 62.9 |
| 0°-60° | 3837.8 | 91.9 |
| 0°-90° | 4174.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4174.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2343 | 2343 | 2343 | 2343 | 2343 | |
| 5° | 2379 | 2362 | 2330 | 2293 | 2277 | 229 |
| 15° | 2458 | 2359 | 2191 | 2092 | 2069 | 694 |
| 25° | 2300 | 2119 | 1835 | 1723 | 1713 | 1053 |
| 35° | 1776 | 1614 | 1351 | 1275 | 1282 | 1105 |
| 45° | 1120 | 1031 | 880 | 850 | 857 | 871 |
| 55° | 675 | 600 | 507 | 484 | 488 | 608 |
| 65° | 382 | 316 | 234 | 155 | 142 | 381 |
| 75° | 171 | 122 | 46 | 16 | 16 | 184 |
| 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° | 2342.7 | 2342.7 | 2342.7 | 2342.7 | 2342.7 | 2342.7 | 2342.7 | 2342.7 | 2342.7 |
| 2.5° | 2352.6 | 2349.3 | 2346.0 | 2339.4 | 2329.6 | 2319.6 | 2313.0 | 2306.5 | 2303.2 |
| 5° | 2379.0 | 2372.4 | 2362.4 | 2349.3 | 2329.6 | 2306.5 | 2293.3 | 2280.1 | 2276.8 |
| 7.5° | 2415.2 | 2402.1 | 2375.7 | 2346.0 | 2313.0 | 2280.1 | 2257.1 | 2243.8 | 2234.0 |
| 10° | 2431.6 | 2408.6 | 2372.4 | 2322.9 | 2273.5 | 2234.0 | 2204.3 | 2184.6 | 2177.9 |
| 12.5° | 2444.9 | 2418.5 | 2365.8 | 2299.9 | 2234.0 | 2181.2 | 2148.3 | 2131.8 | 2125.2 |
| 15° | 2458.0 | 2431.6 | 2359.1 | 2273.5 | 2191.2 | 2128.5 | 2092.3 | 2075.9 | 2069.2 |
| 17.5° | 2458.0 | 2421.8 | 2336.1 | 2227.4 | 2128.5 | 2052.8 | 2016.5 | 2000.1 | 1996.7 |
| 20° | 2428.3 | 2388.8 | 2283.4 | 2154.9 | 2042.9 | 1957.2 | 1924.2 | 1914.3 | 1907.8 |
| 22.5° | 2372.4 | 2326.2 | 2207.6 | 2062.6 | 1940.7 | 1858.4 | 1822.1 | 1815.6 | 1808.9 |
| 25° | 2299.9 | 2253.7 | 2118.7 | 1963.8 | 1835.3 | 1752.9 | 1723.3 | 1716.7 | 1713.4 |
| 27.5° | 2207.6 | 2158.2 | 2016.5 | 1858.4 | 1720.0 | 1640.9 | 1614.5 | 1614.5 | 1611.2 |
| 30° | 2089.0 | 2032.9 | 1894.6 | 1736.4 | 1598.1 | 1525.6 | 1505.8 | 1505.8 | 1502.5 |
| 32.5° | 1944.0 | 1887.9 | 1762.8 | 1611.2 | 1479.4 | 1403.6 | 1387.2 | 1393.8 | 1390.5 |
| 35° | 1775.9 | 1729.8 | 1614.5 | 1466.2 | 1350.9 | 1281.7 | 1275.2 | 1281.7 | 1281.7 |
| 37.5° | 1607.9 | 1565.1 | 1466.2 | 1337.7 | 1229.1 | 1166.4 | 1166.4 | 1176.3 | 1173.0 |
| 40° | 1433.3 | 1400.3 | 1308.1 | 1196.1 | 1107.1 | 1064.3 | 1057.7 | 1067.5 | 1070.8 |
| 42.5° | 1268.6 | 1242.2 | 1163.1 | 1070.8 | 991.8 | 949.0 | 958.8 | 965.4 | 968.7 |
| 45° | 1120.3 | 1093.9 | 1031.3 | 935.8 | 879.8 | 850.1 | 850.1 | 859.9 | 856.6 |
| 47.5° | 988.5 | 968.7 | 906.1 | 813.8 | 764.4 | 751.2 | 757.9 | 764.4 | 764.4 |
| 50° | 873.2 | 843.5 | 784.2 | 711.7 | 675.4 | 659.0 | 665.6 | 668.8 | 668.8 |
| 52.5° | 764.4 | 744.6 | 685.4 | 619.5 | 586.5 | 576.6 | 576.6 | 579.9 | 579.9 |
| 55° | 675.4 | 652.4 | 599.6 | 533.8 | 507.4 | 494.2 | 484.3 | 481.0 | 487.6 |
| 57.5° | 589.8 | 570.1 | 520.6 | 457.9 | 428.4 | 415.1 | 395.4 | 388.8 | 395.4 |
| 60° | 514.0 | 497.6 | 448.1 | 388.8 | 359.2 | 332.8 | 309.7 | 296.5 | 303.1 |
| 62.5° | 448.1 | 428.4 | 378.9 | 329.5 | 296.5 | 266.9 | 230.6 | 210.9 | 220.8 |
| 65° | 382.2 | 365.7 | 316.4 | 266.9 | 233.9 | 197.7 | 154.8 | 141.7 | 141.7 |
| 67.5° | 322.9 | 306.4 | 260.3 | 217.5 | 177.9 | 135.1 | 95.6 | 92.3 | 95.6 |
| 70° | 266.9 | 250.4 | 210.9 | 168.1 | 125.2 | 82.3 | 56.1 | 56.1 | 56.1 |
| 72.5° | 220.8 | 200.9 | 164.7 | 121.9 | 79.1 | 42.8 | 29.7 | 33.0 | 33.0 |
| 75° | 171.4 | 154.8 | 121.9 | 82.3 | 46.1 | 19.8 | 16.4 | 16.4 | 16.4 |
| 77.5° | 128.6 | 115.3 | 85.6 | 52.7 | 23.1 | 6.6 | 6.6 | 6.6 | 6.6 |
| 80° | 88.9 | 75.8 | 56.1 | 33.0 | 13.1 | 6.6 | 6.6 | 6.6 | 6.6 |
| 82.5° | 52.7 | 46.1 | 33.0 | 16.4 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 26.4 | 23.1 | 13.1 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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