

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: P583349

Luminaire Tested: **HCC6S07D010MW-HM60525840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S07D010MW-HM60525840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

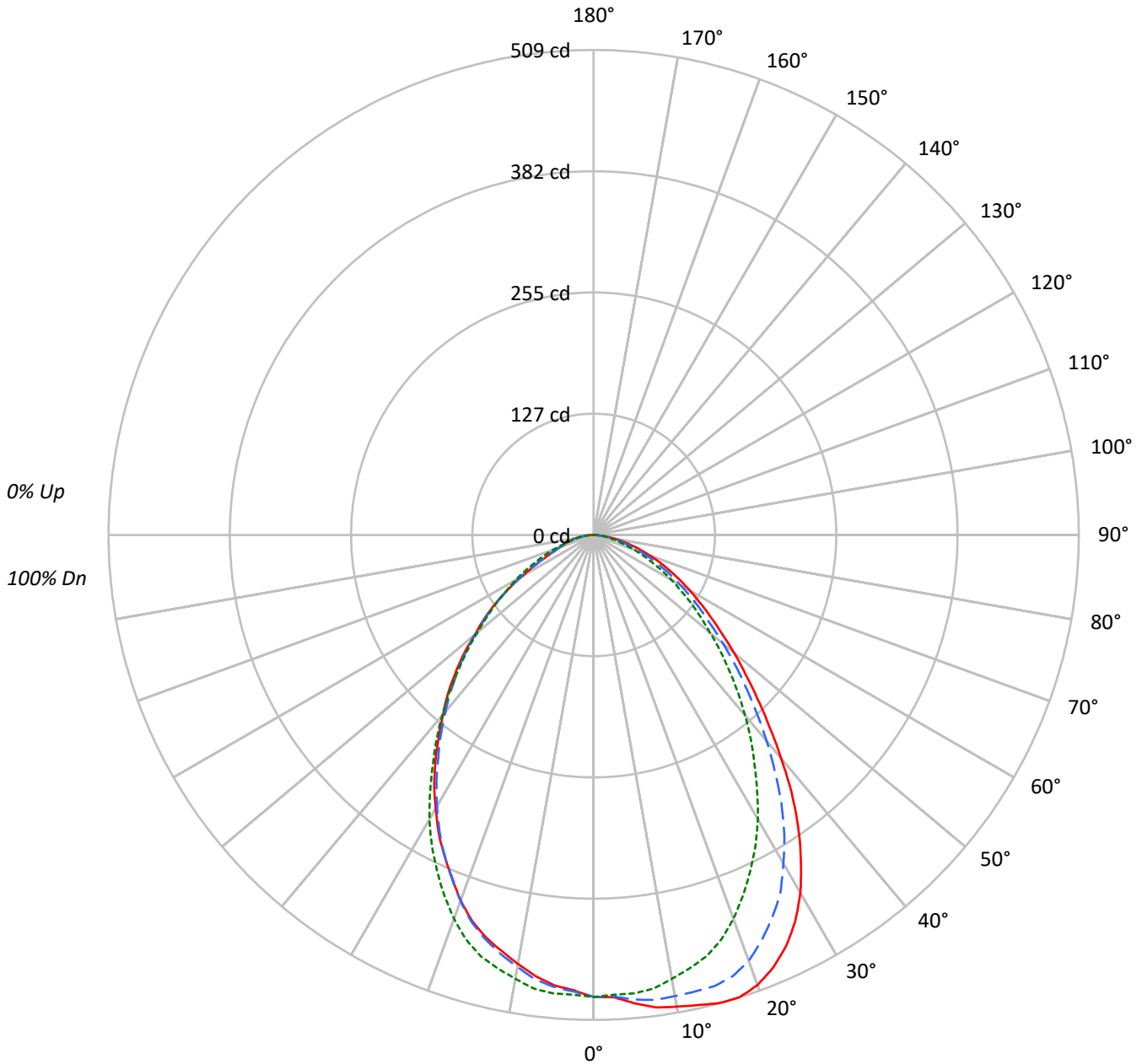
Lumens per Lamp: N/A
Luminaire Lumens: 949.7 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 26582 | 26582 | 26582 |
| 5° | 27157 | 26579 | 26106 |
| 10° | 27989 | 26330 | 25450 |
| 15° | 28876 | 25976 | 24813 |
| 20° | 29333 | 25004 | 23808 |
| 25° | 28852 | 23517 | 22435 |
| 30° | 27466 | 21807 | 20972 |
| 35° | 25049 | 19682 | 19374 |
| 40° | 21898 | 17683 | 17583 |
| 45° | 18847 | 15568 | 15924 |
| 50° | 16392 | 13560 | 13850 |
| 55° | 14308 | 11899 | 12033 |
| 60° | 12707 | 10306 | 9440 |
| 65° | 11350 | 8691 | 7212 |
| 70° | 9986 | 7117 | 6043 |
| 75° | 8557 | 5613 | 5761 |
| 80° | 6914 | 4799 | 5651 |
| 85° | 4592 | 4151 | 4969 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.9 | 4.8 |
| 10°-20° | 130.7 | 13.8 |
| 20°-30° | 186.6 | 19.6 |
| 30°-40° | 195.4 | 20.6 |
| 40°-50° | 164.6 | 17.3 |
| 50°-60° | 117.1 | 12.3 |
| 60°-70° | 68.6 | 7.2 |
| 70°-80° | 32.4 | 3.4 |
| 80°-90° | 8.3 | 0.9 |
| 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° | 363.2 | 38.2 |
| 0°-40° | 558.7 | 58.8 |
| 0°-60° | 840.3 | 88.5 |
| 0°-90° | 949.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 949.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 485 | 485 | 485 | 485 | 485 | |
| 5° | 494 | 490 | 483 | 476 | 474 | 47 |
| 15° | 509 | 490 | 458 | 439 | 437 | 144 |
| 25° | 477 | 443 | 389 | 370 | 371 | 218 |
| 35° | 374 | 343 | 294 | 284 | 290 | 232 |
| 45° | 243 | 225 | 201 | 201 | 205 | 189 |
| 55° | 150 | 137 | 124 | 124 | 126 | 135 |
| 65° | 88 | 78 | 67 | 56 | 56 | 87 |
| 75° | 40 | 34 | 26 | 26 | 27 | 43 |
| 85° | 7 | 6 | 7 | 8 | 8 | 9 |
| 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° | 484.9 | 484.9 | 484.9 | 484.9 | 484.9 | 484.9 | 484.9 | 484.9 | 484.9 |
| 2.5° | 485.6 | 485.6 | 484.9 | 484.2 | 483.0 | 481.0 | 479.6 | 478.4 | 478.4 |
| 5° | 493.5 | 492.2 | 489.6 | 486.3 | 483.0 | 479.0 | 476.3 | 474.4 | 474.4 |
| 7.5° | 500.2 | 497.5 | 492.2 | 486.3 | 480.3 | 475.0 | 470.4 | 467.7 | 467.0 |
| 10° | 502.8 | 499.5 | 491.6 | 482.3 | 473.0 | 465.8 | 460.5 | 457.2 | 457.2 |
| 12.5° | 505.4 | 501.5 | 490.9 | 477.7 | 465.8 | 455.8 | 450.5 | 447.9 | 447.2 |
| 15° | 508.8 | 503.5 | 490.2 | 473.7 | 457.7 | 446.5 | 439.3 | 437.2 | 437.2 |
| 17.5° | 508.8 | 502.1 | 485.6 | 465.1 | 445.2 | 432.6 | 426.0 | 424.0 | 424.6 |
| 20° | 502.8 | 495.6 | 475.6 | 450.5 | 428.6 | 415.4 | 408.8 | 407.4 | 408.1 |
| 22.5° | 491.6 | 483.0 | 460.5 | 433.3 | 409.5 | 395.5 | 389.5 | 389.5 | 388.8 |
| 25° | 477.0 | 467.7 | 443.2 | 414.7 | 388.8 | 375.0 | 370.4 | 370.9 | 370.9 |
| 27.5° | 457.7 | 448.6 | 424.0 | 393.5 | 367.7 | 353.7 | 350.4 | 351.8 | 352.5 |
| 30° | 433.9 | 424.0 | 398.1 | 368.3 | 344.5 | 330.6 | 328.6 | 330.6 | 331.3 |
| 32.5° | 404.8 | 397.5 | 372.3 | 341.8 | 319.3 | 307.4 | 306.7 | 308.7 | 311.3 |
| 35° | 374.3 | 366.4 | 343.2 | 315.3 | 294.1 | 284.2 | 284.2 | 287.6 | 289.5 |
| 37.5° | 341.1 | 333.2 | 312.0 | 288.8 | 271.0 | 261.7 | 263.0 | 266.4 | 266.9 |
| 40° | 306.0 | 300.1 | 282.2 | 262.4 | 247.1 | 239.9 | 241.8 | 245.1 | 245.7 |
| 42.5° | 272.9 | 267.6 | 253.1 | 235.2 | 223.9 | 218.7 | 221.3 | 225.2 | 226.6 |
| 45° | 243.1 | 237.1 | 225.2 | 210.1 | 200.8 | 198.0 | 201.4 | 204.1 | 205.4 |
| 47.5° | 215.9 | 210.6 | 200.8 | 186.8 | 180.1 | 178.9 | 182.2 | 183.5 | 184.8 |
| 50° | 192.2 | 186.8 | 176.9 | 164.3 | 159.0 | 159.0 | 161.7 | 162.9 | 162.4 |
| 52.5° | 168.9 | 164.3 | 155.0 | 144.5 | 141.1 | 141.1 | 143.1 | 143.8 | 145.1 |
| 55° | 149.7 | 145.1 | 137.1 | 127.2 | 124.5 | 123.3 | 124.5 | 124.5 | 125.9 |
| 57.5° | 131.9 | 127.9 | 120.6 | 111.3 | 108.0 | 106.6 | 106.0 | 105.4 | 106.6 |
| 60° | 115.9 | 112.6 | 104.7 | 96.8 | 94.0 | 90.8 | 88.1 | 85.4 | 86.1 |
| 62.5° | 101.4 | 98.0 | 90.8 | 82.8 | 80.2 | 75.6 | 72.2 | 68.9 | 70.2 |
| 65° | 87.5 | 84.2 | 77.5 | 70.9 | 67.0 | 61.6 | 56.3 | 54.3 | 55.6 |
| 67.5° | 74.9 | 72.2 | 65.6 | 58.9 | 55.6 | 49.7 | 44.4 | 44.4 | 45.1 |
| 70° | 62.3 | 59.6 | 54.3 | 48.4 | 44.4 | 39.1 | 37.0 | 37.7 | 37.7 |
| 72.5° | 51.0 | 49.1 | 43.7 | 38.4 | 34.4 | 31.2 | 31.2 | 31.8 | 32.5 |
| 75° | 40.4 | 39.1 | 33.8 | 29.1 | 26.5 | 24.5 | 25.8 | 26.5 | 27.2 |
| 77.5° | 31.2 | 29.1 | 25.2 | 21.9 | 19.8 | 20.5 | 21.9 | 22.5 | 23.2 |
| 80° | 21.9 | 21.2 | 17.9 | 15.9 | 15.2 | 15.9 | 17.2 | 17.9 | 17.9 |
| 82.5° | 13.9 | 13.3 | 11.2 | 10.7 | 10.7 | 11.2 | 12.6 | 12.6 | 12.6 |
| 85° | 7.3 | 6.6 | 6.0 | 6.0 | 6.6 | 7.3 | 7.9 | 7.9 | 7.9 |
| 87.5° | 2.6 | 2.0 | 2.6 | 2.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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