

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: P581793

Luminaire Tested: **HCC6W15D010MW-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581793
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: HCC6W15D010MW-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

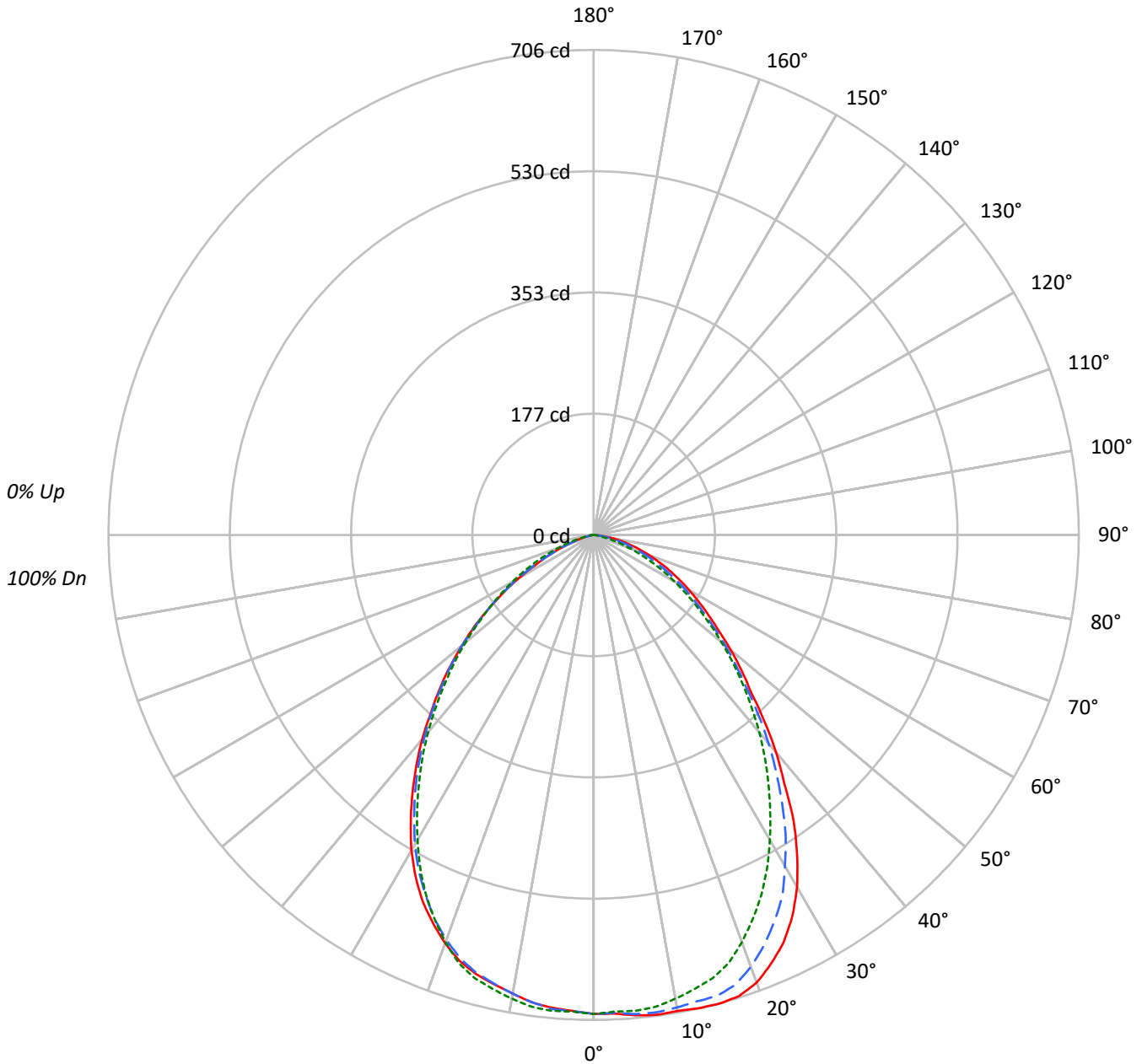
Lumens per Lamp: N/A
Luminaire Lumens: 1366.5 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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° | 38237 | 38237 | 38237 |
| 5° | 38631 | 38273 | 38025 |
| 10° | 39178 | 38159 | 37753 |
| 15° | 40097 | 37923 | 37554 |
| 20° | 40469 | 36794 | 36899 |
| 25° | 39583 | 34944 | 35603 |
| 30° | 37487 | 32461 | 33562 |
| 35° | 33943 | 29667 | 30771 |
| 40° | 29563 | 26822 | 27802 |
| 45° | 25088 | 23739 | 24584 |
| 50° | 22217 | 20733 | 21279 |
| 55° | 19574 | 17739 | 17653 |
| 60° | 17531 | 14933 | 13727 |
| 65° | 15657 | 11973 | 9832 |
| 70° | 13768 | 8639 | 6155 |
| 75° | 11607 | 5210 | 3495 |
| 80° | 8966 | 2305 | 1421 |
| 85° | 5158 | 566 | 566 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.2 | 4.8 |
| 10°-20° | 190.3 | 13.9 |
| 20°-30° | 275.0 | 20.1 |
| 30°-40° | 289.4 | 21.2 |
| 40°-50° | 243.3 | 17.8 |
| 50°-60° | 170.7 | 12.5 |
| 60°-70° | 93.9 | 6.9 |
| 70°-80° | 33.3 | 2.4 |
| 80°-90° | 4.3 | 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° | 531.5 | 38.9 |
| 0°-40° | 820.9 | 60.1 |
| 0°-60° | 1234.9 | 90.4 |
| 0°-90° | 1366.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1366.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 698 | 698 | 698 | 698 | 698 | |
| 5° | 702 | 700 | 696 | 693 | 691 | 67 |
| 15° | 706 | 695 | 668 | 660 | 662 | 199 |
| 25° | 654 | 622 | 578 | 579 | 589 | 299 |
| 35° | 507 | 478 | 443 | 452 | 460 | 314 |
| 45° | 324 | 314 | 306 | 314 | 317 | 254 |
| 55° | 205 | 194 | 186 | 186 | 185 | 184 |
| 65° | 121 | 108 | 92 | 76 | 76 | 120 |
| 75° | 55 | 44 | 25 | 16 | 16 | 59 |
| 85° | 8 | 4 | 1 | 1 | 1 | 11 |
| 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° | 697.5 | 697.5 | 697.5 | 697.5 | 697.5 | 697.5 | 697.5 | 697.5 | 697.5 |
| 2.5° | 697.5 | 697.5 | 696.4 | 696.4 | 694.6 | 694.6 | 693.7 | 693.7 | 693.7 |
| 5° | 702.0 | 702.0 | 700.2 | 697.5 | 695.5 | 692.8 | 692.8 | 691.9 | 691.0 |
| 7.5° | 704.7 | 703.8 | 701.1 | 697.5 | 692.8 | 688.3 | 686.4 | 687.4 | 686.4 |
| 10° | 703.8 | 702.0 | 698.4 | 691.0 | 685.5 | 679.1 | 678.2 | 677.3 | 678.2 |
| 12.5° | 705.6 | 702.9 | 695.5 | 686.4 | 677.3 | 670.0 | 669.1 | 669.1 | 670.0 |
| 15° | 706.5 | 703.8 | 694.6 | 681.0 | 668.2 | 660.8 | 659.9 | 660.8 | 661.7 |
| 17.5° | 703.8 | 700.2 | 686.4 | 668.2 | 653.5 | 646.3 | 646.3 | 648.1 | 649.9 |
| 20° | 693.7 | 688.3 | 669.1 | 647.2 | 630.7 | 625.2 | 627.0 | 630.7 | 632.5 |
| 22.5° | 675.4 | 669.1 | 647.2 | 622.4 | 605.1 | 600.5 | 605.1 | 609.6 | 611.5 |
| 25° | 654.4 | 647.2 | 621.5 | 596.0 | 577.7 | 572.2 | 578.6 | 585.9 | 588.6 |
| 27.5° | 626.1 | 617.9 | 594.2 | 564.9 | 546.6 | 543.9 | 551.2 | 559.3 | 561.3 |
| 30° | 592.2 | 583.2 | 556.6 | 529.3 | 512.8 | 511.9 | 520.1 | 527.4 | 530.2 |
| 32.5° | 551.2 | 543.0 | 520.1 | 492.7 | 478.1 | 478.1 | 486.2 | 492.7 | 495.4 |
| 35° | 507.2 | 498.2 | 478.1 | 455.1 | 443.3 | 444.2 | 452.4 | 457.1 | 459.8 |
| 37.5° | 455.1 | 452.4 | 436.9 | 417.7 | 409.5 | 411.3 | 417.7 | 421.3 | 424.1 |
| 40° | 413.1 | 405.9 | 395.8 | 380.2 | 374.8 | 376.6 | 382.9 | 386.6 | 388.5 |
| 42.5° | 367.4 | 362.9 | 354.7 | 343.7 | 340.0 | 342.8 | 348.2 | 350.9 | 350.0 |
| 45° | 323.6 | 322.7 | 314.4 | 308.0 | 306.2 | 309.9 | 313.5 | 316.2 | 317.1 |
| 47.5° | 291.6 | 287.9 | 280.6 | 276.0 | 274.2 | 277.8 | 281.5 | 283.3 | 283.3 |
| 50° | 260.5 | 256.9 | 249.5 | 244.9 | 243.1 | 246.7 | 249.5 | 251.4 | 249.5 |
| 52.5° | 229.4 | 225.8 | 219.4 | 213.8 | 212.9 | 214.7 | 215.8 | 216.7 | 218.5 |
| 55° | 204.8 | 201.1 | 193.7 | 187.4 | 185.6 | 186.5 | 185.6 | 185.6 | 184.7 |
| 57.5° | 181.0 | 177.3 | 170.0 | 162.6 | 159.9 | 159.0 | 156.3 | 155.4 | 154.5 |
| 60° | 159.9 | 155.4 | 148.1 | 139.8 | 136.2 | 132.6 | 127.9 | 125.2 | 125.2 |
| 62.5° | 139.8 | 135.3 | 127.0 | 119.7 | 114.3 | 107.8 | 100.6 | 96.9 | 96.9 |
| 65° | 120.7 | 117.0 | 107.8 | 99.7 | 92.3 | 84.1 | 75.8 | 74.0 | 75.8 |
| 67.5° | 102.4 | 98.7 | 89.6 | 81.4 | 72.2 | 62.2 | 54.8 | 54.8 | 56.6 |
| 70° | 85.9 | 82.3 | 74.0 | 64.0 | 53.9 | 43.9 | 38.4 | 38.4 | 38.4 |
| 72.5° | 70.4 | 66.7 | 57.5 | 48.5 | 38.4 | 28.4 | 25.5 | 26.6 | 25.5 |
| 75° | 54.8 | 52.1 | 43.9 | 33.8 | 24.6 | 17.4 | 16.5 | 15.5 | 16.5 |
| 77.5° | 41.1 | 38.4 | 31.1 | 21.9 | 13.7 | 10.1 | 9.2 | 9.2 | 9.2 |
| 80° | 28.4 | 25.5 | 20.1 | 12.8 | 7.3 | 4.5 | 4.5 | 4.5 | 4.5 |
| 82.5° | 17.4 | 14.6 | 11.0 | 6.4 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 85° | 8.2 | 6.4 | 4.5 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 1.8 | 1.8 | 0.9 | 0.9 | 0.0 | 0.9 | 0.9 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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