

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: P581685

Luminaire Tested: **HCC6W10D010MB-HM60525940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581685
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: HCC6W10D010MB-HM60525940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

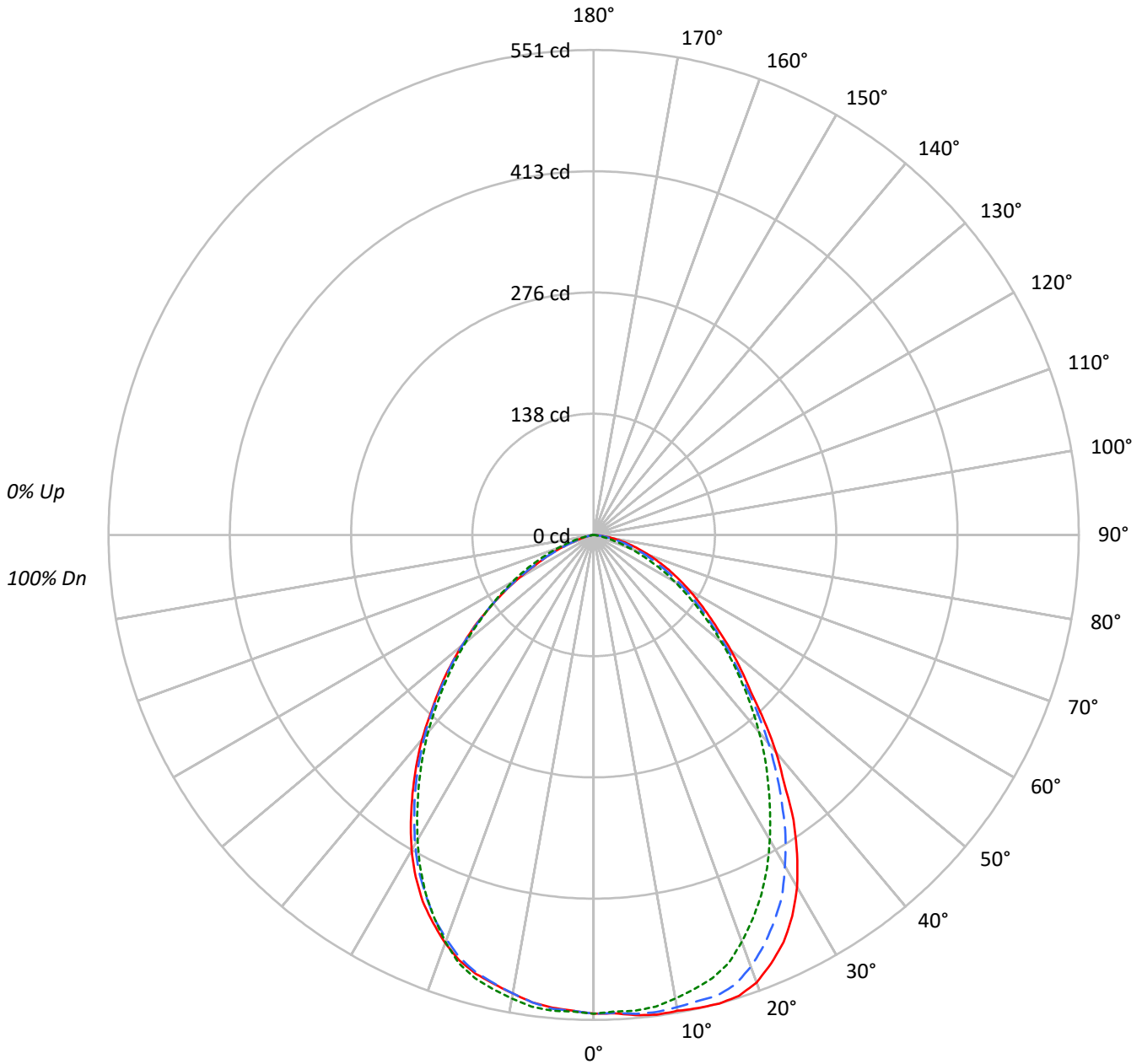
Lumens per Lamp: N/A
Luminaire Lumens: 1066.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | | | | | 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° | 29822 | 29822 | 29822 |
| 5° | 30140 | 29865 | 29666 |
| 10° | 30561 | 29770 | 29453 |
| 15° | 31283 | 29586 | 29302 |
| 20° | 31573 | 28702 | 28784 |
| 25° | 30879 | 27256 | 27782 |
| 30° | 29251 | 25320 | 26181 |
| 35° | 26481 | 23142 | 23999 |
| 40° | 23065 | 20925 | 21683 |
| 45° | 19568 | 18521 | 19188 |
| 50° | 17330 | 16179 | 16605 |
| 55° | 15263 | 13839 | 13763 |
| 60° | 13672 | 11655 | 10712 |
| 65° | 12206 | 9340 | 7679 |
| 70° | 10739 | 6748 | 4809 |
| 75° | 9065 | 4067 | 2711 |
| 80° | 6977 | 1799 | 1105 |
| 85° | 4088 | 440 | 440 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.6 | 4.8 |
| 10°-20° | 148.4 | 13.9 |
| 20°-30° | 214.6 | 20.1 |
| 30°-40° | 225.8 | 21.2 |
| 40°-50° | 189.8 | 17.8 |
| 50°-60° | 133.2 | 12.5 |
| 60°-70° | 73.3 | 6.9 |
| 70°-80° | 26.0 | 2.4 |
| 80°-90° | 3.4 | 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° | 414.6 | 38.9 |
| 0°-40° | 640.4 | 60.1 |
| 0°-60° | 963.4 | 90.4 |
| 0°-90° | 1066.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1066.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 544 | 544 | 544 | 544 | 544 | |
| 5° | 548 | 546 | 543 | 540 | 539 | 52 |
| 15° | 551 | 542 | 521 | 515 | 516 | 156 |
| 25° | 510 | 485 | 451 | 451 | 459 | 234 |
| 35° | 396 | 373 | 346 | 353 | 359 | 245 |
| 45° | 252 | 245 | 239 | 245 | 248 | 198 |
| 55° | 160 | 151 | 145 | 145 | 144 | 144 |
| 65° | 94 | 84 | 72 | 59 | 59 | 94 |
| 75° | 43 | 34 | 19 | 13 | 13 | 46 |
| 85° | 6 | 4 | 1 | 1 | 1 | 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° | 544.0 | 544.0 | 544.0 | 544.0 | 544.0 | 544.0 | 544.0 | 544.0 | 544.0 |
| 2.5° | 544.0 | 544.0 | 543.4 | 543.4 | 541.9 | 541.9 | 541.2 | 541.2 | 541.2 |
| 5° | 547.7 | 547.7 | 546.2 | 544.0 | 542.7 | 540.5 | 540.5 | 539.7 | 539.1 |
| 7.5° | 549.8 | 549.0 | 546.9 | 544.0 | 540.5 | 536.9 | 535.5 | 536.2 | 535.5 |
| 10° | 549.0 | 547.7 | 544.8 | 539.1 | 534.8 | 529.8 | 529.1 | 528.4 | 529.1 |
| 12.5° | 550.5 | 548.3 | 542.7 | 535.5 | 528.4 | 522.6 | 522.0 | 522.0 | 522.6 |
| 15° | 551.2 | 549.0 | 541.9 | 531.2 | 521.3 | 515.5 | 514.8 | 515.5 | 516.3 |
| 17.5° | 549.0 | 546.2 | 535.5 | 521.3 | 509.9 | 504.2 | 504.2 | 505.6 | 507.0 |
| 20° | 541.2 | 536.9 | 522.0 | 504.9 | 492.0 | 487.8 | 489.1 | 492.0 | 493.4 |
| 22.5° | 526.9 | 522.0 | 504.9 | 485.6 | 472.0 | 468.5 | 472.0 | 475.7 | 477.0 |
| 25° | 510.5 | 504.9 | 484.8 | 464.9 | 450.6 | 446.3 | 451.3 | 457.1 | 459.3 |
| 27.5° | 488.5 | 482.0 | 463.4 | 440.7 | 426.4 | 424.3 | 429.9 | 436.4 | 437.9 |
| 30° | 462.1 | 455.0 | 434.2 | 412.8 | 400.0 | 399.4 | 405.7 | 411.5 | 413.6 |
| 32.5° | 429.9 | 423.6 | 405.7 | 384.3 | 372.9 | 372.9 | 379.3 | 384.3 | 386.5 |
| 35° | 395.7 | 388.6 | 372.9 | 355.1 | 345.8 | 346.5 | 353.0 | 356.6 | 358.6 |
| 37.5° | 355.1 | 353.0 | 340.8 | 325.9 | 319.5 | 320.9 | 325.9 | 328.7 | 330.9 |
| 40° | 322.3 | 316.6 | 308.8 | 296.6 | 292.4 | 293.8 | 298.7 | 301.7 | 303.0 |
| 42.5° | 286.6 | 283.1 | 276.7 | 268.1 | 265.2 | 267.4 | 271.7 | 273.8 | 273.2 |
| 45° | 252.4 | 251.8 | 245.3 | 240.3 | 238.9 | 241.7 | 244.6 | 246.8 | 247.5 |
| 47.5° | 227.4 | 224.6 | 218.9 | 215.3 | 213.9 | 216.8 | 219.6 | 221.1 | 221.1 |
| 50° | 203.2 | 200.4 | 194.7 | 191.1 | 189.7 | 192.6 | 194.7 | 196.1 | 194.7 |
| 52.5° | 179.0 | 176.1 | 171.2 | 166.9 | 166.2 | 167.5 | 168.3 | 169.0 | 170.4 |
| 55° | 159.7 | 156.9 | 151.1 | 146.1 | 144.8 | 145.5 | 144.8 | 144.8 | 144.0 |
| 57.5° | 141.2 | 138.3 | 132.7 | 126.9 | 124.7 | 124.1 | 121.9 | 121.2 | 120.6 |
| 60° | 124.7 | 121.2 | 115.5 | 109.1 | 106.3 | 103.4 | 99.8 | 97.7 | 97.7 |
| 62.5° | 109.1 | 105.5 | 99.2 | 93.4 | 89.1 | 84.1 | 78.4 | 75.6 | 75.6 |
| 65° | 94.1 | 91.2 | 84.1 | 77.8 | 72.0 | 65.7 | 59.2 | 57.7 | 59.2 |
| 67.5° | 79.9 | 77.0 | 69.8 | 63.5 | 56.4 | 48.4 | 42.8 | 42.8 | 44.3 |
| 70° | 67.0 | 64.2 | 57.7 | 49.9 | 42.1 | 34.2 | 30.0 | 30.0 | 30.0 |
| 72.5° | 54.9 | 52.1 | 44.9 | 37.8 | 30.0 | 22.1 | 19.9 | 20.7 | 19.9 |
| 75° | 42.8 | 40.6 | 34.2 | 26.4 | 19.2 | 13.6 | 12.8 | 12.1 | 12.8 |
| 77.5° | 32.0 | 30.0 | 24.2 | 17.1 | 10.6 | 7.8 | 7.1 | 7.1 | 7.1 |
| 80° | 22.1 | 19.9 | 15.7 | 10.0 | 5.7 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 13.6 | 11.4 | 8.6 | 5.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 85° | 6.5 | 5.0 | 3.5 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.7 | 0.7 | 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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