

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: P581667

Luminaire Tested: **HCC6W10D010MB-HM60525935-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581667  
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-HM60525935-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

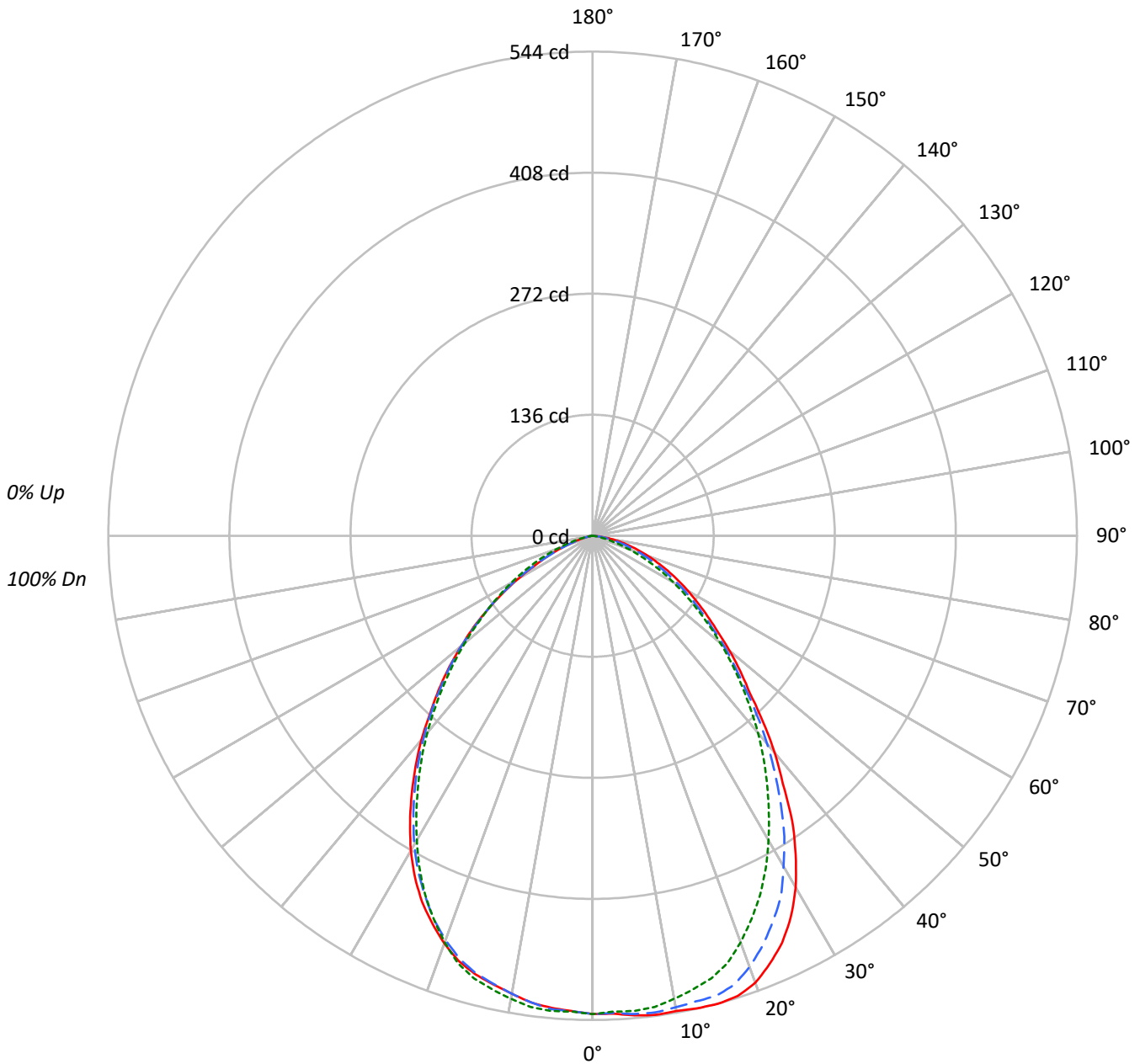
Lumens per Lamp: N/A  
Luminaire Lumens: 1052.9 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°  | 29460 | 29460 | 29460 |
| 5°  | 29765 | 29490 | 29298 |
| 10° | 30182 | 29403 | 29085 |
| 15° | 30897 | 29217 | 28939 |
| 20° | 31182 | 28352 | 28428 |
| 25° | 30498 | 26923 | 27431 |
| 30° | 28884 | 25010 | 25852 |
| 35° | 26160 | 22854 | 23704 |
| 40° | 22778 | 20667 | 21419 |
| 45° | 19328 | 18289 | 18948 |
| 50° | 17117 | 15974 | 16392 |
| 55° | 15082 | 13667 | 13600 |
| 60° | 13519 | 11501 | 10569 |
| 65° | 12051 | 9223  | 7575  |
| 70° | 10611 | 6652  | 4728  |
| 75° | 8938  | 4024  | 2690  |
| 80° | 6882  | 1799  | 1105  |
| 85° | 3963  | 440   | 440   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.0   | 4.8       |
| 10°-20°   | 146.6  | 13.9      |
| 20°-30°   | 211.9  | 20.1      |
| 30°-40°   | 223.0  | 21.2      |
| 40°-50°   | 187.4  | 17.8      |
| 50°-60°   | 131.6  | 12.5      |
| 60°-70°   | 72.4   | 6.9       |
| 70°-80°   | 25.7   | 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°    | 409.5  | 38.9      |
| 0°-40°    | 632.5  | 60.1      |
| 0°-60°    | 951.5  | 90.4      |
| 0°-90°    | 1052.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1052.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 537 | 537 | 537 | 537  | 537  |      |
| 5°  | 541 | 539 | 536 | 534  | 532  | 52   |
| 15° | 544 | 535 | 515 | 508  | 510  | 154  |
| 25° | 504 | 479 | 445 | 446  | 454  | 231  |
| 35° | 391 | 368 | 342 | 349  | 354  | 242  |
| 45° | 249 | 242 | 236 | 242  | 244  | 196  |
| 55° | 158 | 149 | 143 | 143  | 142  | 142  |
| 65° | 93  | 83  | 71  | 58   | 58   | 93   |
| 75° | 42  | 34  | 19  | 13   | 13   | 45   |
| 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°    | 537.4 | 537.4 | 537.4 | 537.4 | 537.4 | 537.4  | 537.4 | 537.4  | 537.4 |
| 2.5°  | 537.4 | 537.4 | 536.7 | 536.7 | 535.2 | 535.2  | 534.5 | 534.5  | 534.5 |
| 5°    | 540.9 | 540.9 | 539.4 | 537.4 | 535.9 | 533.9  | 533.9 | 533.1  | 532.4 |
| 7.5°  | 543.0 | 542.2 | 540.2 | 537.4 | 533.9 | 530.3  | 528.9 | 529.5  | 528.9 |
| 10°   | 542.2 | 540.9 | 538.0 | 532.4 | 528.2 | 523.2  | 522.5 | 521.9  | 522.5 |
| 12.5° | 543.7 | 541.5 | 535.9 | 528.9 | 521.9 | 516.2  | 515.5 | 515.5  | 516.2 |
| 15°   | 544.4 | 542.2 | 535.2 | 524.7 | 514.8 | 509.2  | 508.5 | 509.2  | 509.9 |
| 17.5° | 542.2 | 539.4 | 528.9 | 514.8 | 503.5 | 497.9  | 497.9 | 499.3  | 500.7 |
| 20°   | 534.5 | 530.3 | 515.5 | 498.6 | 486.0 | 481.7  | 483.1 | 486.0  | 487.3 |
| 22.5° | 520.4 | 515.5 | 498.6 | 479.6 | 466.2 | 462.6  | 466.2 | 469.8  | 471.1 |
| 25°   | 504.2 | 498.6 | 478.8 | 459.1 | 445.1 | 440.8  | 445.8 | 451.4  | 453.5 |
| 27.5° | 482.5 | 476.1 | 457.8 | 435.3 | 421.1 | 419.1  | 424.6 | 431.0  | 432.4 |
| 30°   | 456.3 | 449.3 | 428.9 | 407.7 | 395.1 | 394.4  | 400.7 | 406.4  | 408.4 |
| 32.5° | 424.6 | 418.3 | 400.7 | 379.6 | 368.4 | 368.4  | 374.7 | 379.6  | 381.7 |
| 35°   | 390.9 | 383.9 | 368.4 | 350.7 | 341.5 | 342.3  | 348.7 | 352.2  | 354.2 |
| 37.5° | 350.7 | 348.7 | 336.7 | 321.8 | 315.5 | 317.0  | 321.8 | 324.7  | 326.8 |
| 40°   | 318.3 | 312.7 | 305.0 | 293.0 | 288.8 | 290.1  | 295.1 | 297.9  | 299.3 |
| 42.5° | 283.1 | 279.6 | 273.3 | 264.8 | 261.9 | 264.1  | 268.3 | 270.4  | 269.8 |
| 45°   | 249.3 | 248.6 | 242.2 | 237.4 | 235.9 | 238.7  | 241.6 | 243.7  | 244.4 |
| 47.5° | 224.7 | 221.9 | 216.2 | 212.7 | 211.2 | 214.1  | 216.9 | 218.4  | 218.4 |
| 50°   | 200.7 | 197.9 | 192.2 | 188.7 | 187.3 | 190.2  | 192.2 | 193.7  | 192.2 |
| 52.5° | 176.8 | 174.0 | 169.0 | 164.8 | 164.1 | 165.5  | 166.2 | 166.9  | 168.3 |
| 55°   | 157.8 | 155.0 | 149.3 | 144.3 | 143.0 | 143.7  | 143.0 | 143.0  | 142.3 |
| 57.5° | 139.5 | 136.6 | 131.0 | 125.3 | 123.3 | 122.5  | 120.4 | 119.8  | 119.0 |
| 60°   | 123.3 | 119.8 | 114.1 | 107.8 | 104.9 | 102.1  | 98.6  | 96.4   | 96.4  |
| 62.5° | 107.8 | 104.3 | 97.9  | 92.3  | 88.1  | 83.1   | 77.4  | 74.6   | 74.6  |
| 65°   | 92.9  | 90.1  | 83.1  | 76.7  | 71.1  | 64.8   | 58.4  | 57.1   | 58.4  |
| 67.5° | 78.9  | 76.1  | 69.1  | 62.7  | 55.6  | 47.9   | 42.2  | 42.2   | 43.7  |
| 70°   | 66.2  | 63.4  | 57.1  | 49.2  | 41.5  | 33.8   | 29.5  | 29.5   | 29.5  |
| 72.5° | 54.2  | 51.4  | 44.4  | 37.4  | 29.5  | 21.8   | 19.7  | 20.4   | 19.7  |
| 75°   | 42.2  | 40.2  | 33.8  | 26.0  | 19.0  | 13.4   | 12.7  | 12.0   | 12.7  |
| 77.5° | 31.7  | 29.5  | 24.0  | 16.9  | 10.5  | 7.7    | 7.0   | 7.0    | 7.0   |
| 80°   | 21.8  | 19.7  | 15.5  | 9.8   | 5.7   | 3.5    | 3.5   | 3.5    | 3.5   |
| 82.5° | 13.4  | 11.3  | 8.5   | 5.0   | 2.2   | 2.2    | 2.2   | 2.2    | 2.2   |
| 85°   | 6.3   | 5.0   | 3.5   | 1.4   | 0.7   | 0.7    | 0.7   | 0.7    | 0.7   |
| 87.5° | 1.4   | 1.4   | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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