

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: P593033

Luminaire Tested: **HC607D010-HM60525850-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593033  
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: HC607D010-HM60525850-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
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

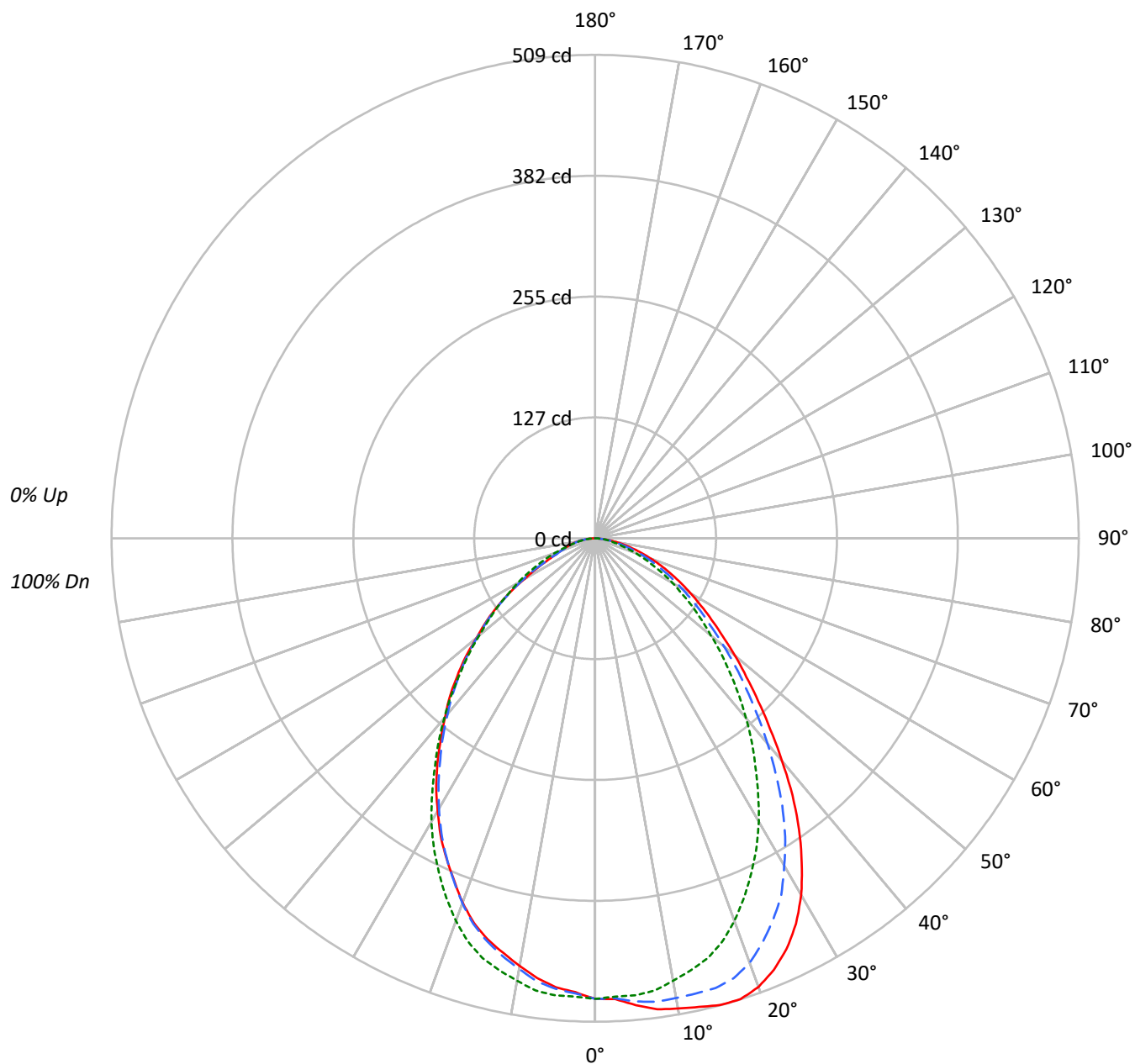
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|--|-----|-----|-----|--|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |  | 20  |     |     |  |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |  | 30  |     |     |  |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  |  | 100 | 97  | 95  |  |  | 96  | 94  | 92  |  |  | 93  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  |  | 90  | 85  | 81  |  |  | 87  | 83  | 80  |  |  | 84  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  |  | 81  | 75  | 71  |  |  | 78  | 73  | 69  |  |  | 76  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  |  | 73  | 67  | 62  |  |  | 71  | 65  | 61  |  |  | 69  |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  |  | 66  | 60  | 55  |  |  | 65  | 59  | 54  |  |  | 63  |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  |  | 61  | 54  | 49  |  |  | 59  | 53  | 48  |  |  | 58  |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  |  | 56  | 49  | 44  |  |  | 54  | 48  | 44  |  |  | 53  |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  |  | 51  | 45  | 40  |  |  | 50  | 44  | 40  |  |  | 49  |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  |  | 48  | 41  | 36  |  |  | 47  | 41  | 36  |  |  | 46  |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 33  |  | 44  | 38  | 33  |  |  | 43  | 37  | 33  |  |  | 43  |

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







(END OF REPORT)