

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: P593088

Luminaire Tested: **HC615D010-HM60525850-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525850-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 1476.2 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

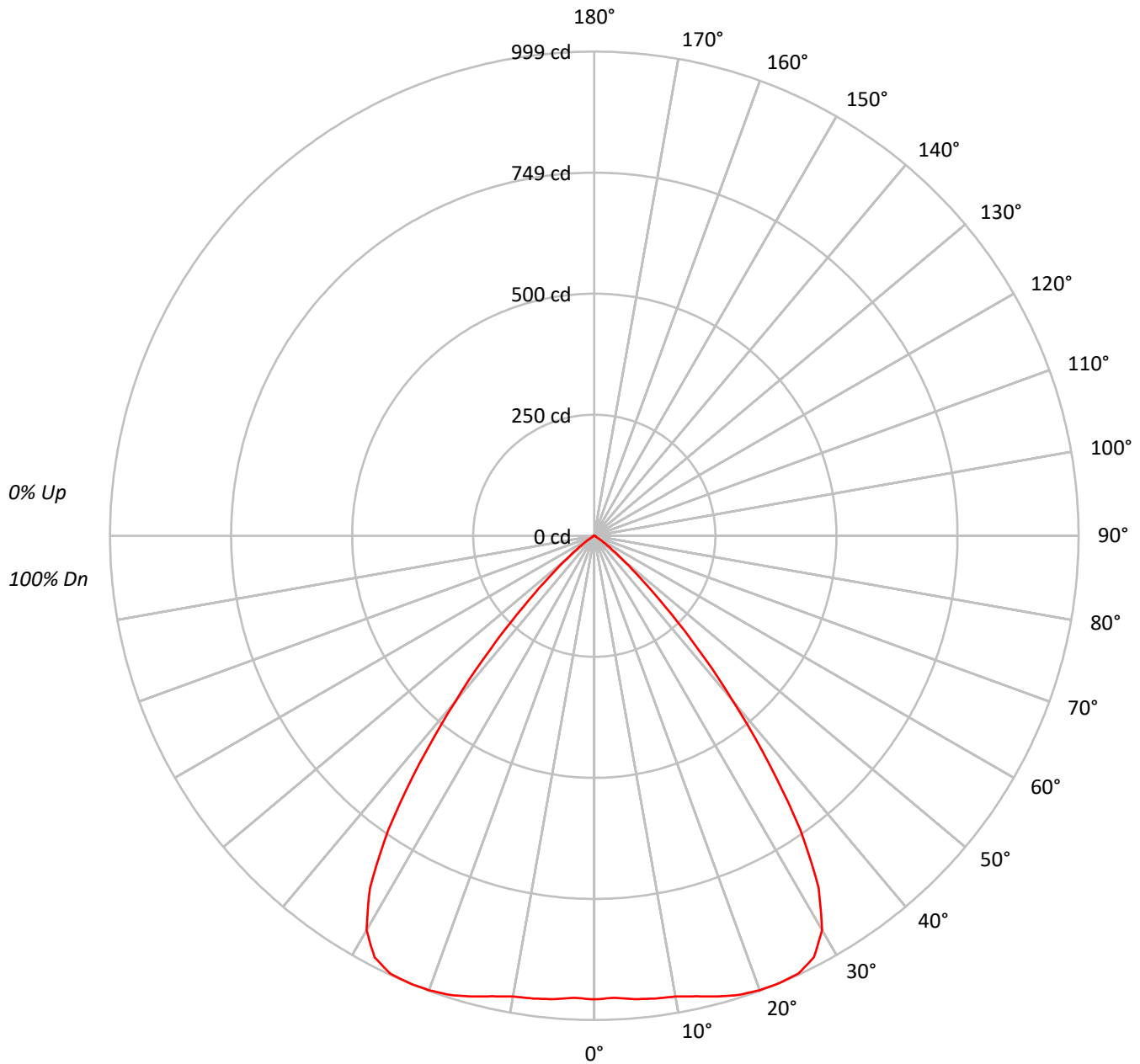
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 98  | 97  |  | 97  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 95  | 92  | 96  | 93  | 90  |  | 93  | 90  | 88  |  | 90  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  |  | 87  | 83  | 80  |  | 84  |
| 4   | 95  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  |  | 81  | 77  | 73  |  | 79  |
| 5   | 89  | 80  | 73  | 68  | 87  | 79  | 73  | 68  | 77  | 72  | 67  |  | 75  | 70  | 67  |  | 73  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  |  | 70  | 65  | 61  |  | 69  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 56  |  | 64  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 60  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 56  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  |  | 53  | 48  | 44  |  | 53  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 52430 |
| 5°  | 52806 |
| 10° | 53734 |
| 15° | 55863 |
| 20° | 58204 |
| 25° | 60282 |
| 30° | 59478 |
| 35° | 49557 |
| 40° | 31774 |
| 45° | 15862 |
| 50° | 6294  |
| 55° | 2141  |
| 60° | 614   |
| 65° | 441   |
| 70° | 369   |
| 75° | 487   |
| 80° | 347   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.8   | 6.2       |
| 10°-20°   | 279.2  | 18.9      |
| 20°-30°   | 455.8  | 30.9      |
| 30°-40°   | 446.8  | 30.3      |
| 40°-50°   | 171.3  | 11.6      |
| 50°-60°   | 25.1   | 1.7       |
| 60°-70°   | 3.7    | 0.3       |
| 70°-80°   | 2.0    | 0.1       |
| 80°-90°   | 0.4    | 0.0       |
| 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°    | 826.8  | 56.0      |
| 0°-40°    | 1273.6 | 86.3      |
| 0°-60°    | 1470.1 | 99.6      |
| 0°-90°    | 1476.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1476.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 956 |      |
| 5°  | 960 | 92   |
| 15° | 984 | 279  |
| 25° | 997 | 456  |
| 35° | 740 | 447  |
| 45° | 205 | 171  |
| 55° | 22  | 25   |
| 65° | 3   | 4    |
| 75° | 2   | 2    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 956.4 |
| 2.5°  | 954.1 |
| 5°    | 959.6 |
| 7.5°  | 963.0 |
| 10°   | 965.3 |
| 12.5° | 973.1 |
| 15°   | 984.3 |
| 17.5° | 993.2 |
| 20°   | 997.7 |
| 22.5° | 998.8 |
| 25°   | 996.6 |
| 27.5° | 981.0 |
| 30°   | 939.6 |
| 32.5° | 861.2 |
| 35°   | 740.5 |
| 37.5° | 591.7 |
| 40°   | 444.0 |
| 42.5° | 316.6 |
| 45°   | 204.6 |
| 47.5° | 125.3 |
| 50°   | 73.8  |
| 52.5° | 42.4  |
| 55°   | 22.4  |
| 57.5° | 10.1  |
| 60°   | 5.6   |
| 62.5° | 4.4   |
| 65°   | 3.4   |
| 67.5° | 3.4   |
| 70°   | 2.3   |
| 72.5° | 2.3   |
| 75°   | 2.3   |
| 77.5° | 1.1   |
| 80°   | 1.1   |
| 82.5° | 1.1   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)