

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: P593106

Luminaire Tested: **HC615D010-HM60525950-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593106  
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-HM60525950-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1286.2 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

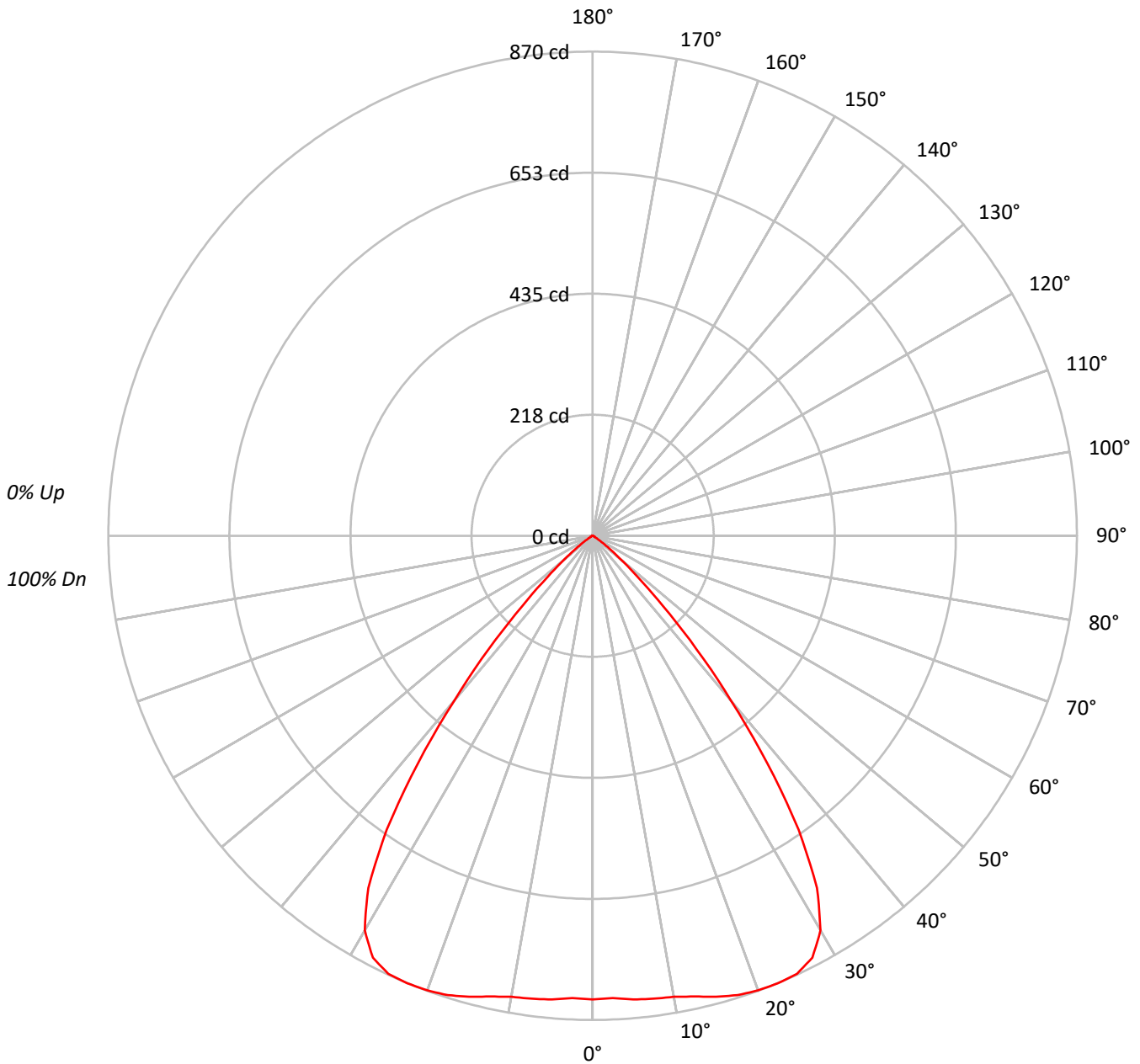
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |    | 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 |    |    | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  |    |    | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 95  | 92  | 96  | 93  | 90  | 93  | 91  | 88  | 90  | 88  | 86  | 85  |    |    | 85  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |    |    | 77  |
| 4   | 95  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  |    |    | 71  |
| 5   | 89  | 80  | 73  | 68  | 87  | 79  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 65  |    |    | 65  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  |    |    | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 53  | 48  | 44  | 43  |    |    | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 45676 |
| 5°  | 46016 |
| 10° | 46815 |
| 15° | 48672 |
| 20° | 50714 |
| 25° | 52521 |
| 30° | 51818 |
| 35° | 43172 |
| 40° | 27688 |
| 45° | 13823 |
| 50° | 5492  |
| 55° | 1864  |
| 60° | 537   |
| 65° | 389   |
| 70° | 305   |
| 75° | 402   |
| 80° | 316   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.0   | 6.2       |
| 10°-20°   | 243.2  | 18.9      |
| 20°-30°   | 397.2  | 30.9      |
| 30°-40°   | 389.3  | 30.3      |
| 40°-50°   | 149.3  | 11.6      |
| 50°-60°   | 21.9   | 1.7       |
| 60°-70°   | 3.3    | 0.3       |
| 70°-80°   | 1.6    | 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°    | 720.3  | 56.0      |
| 0°-40°    | 1109.6 | 86.3      |
| 0°-60°    | 1280.8 | 99.6      |
| 0°-90°    | 1286.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1286.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 833 |      |
| 5°  | 836 | 80   |
| 15° | 858 | 243  |
| 25° | 868 | 397  |
| 35° | 645 | 389  |
| 45° | 178 | 149  |
| 55° | 20  | 22   |
| 65° | 3   | 3    |
| 75° | 2   | 2    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 833.2 |
| 2.5°  | 831.3 |
| 5°    | 836.2 |
| 7.5°  | 839.0 |
| 10°   | 841.0 |
| 12.5° | 847.8 |
| 15°   | 857.6 |
| 17.5° | 865.3 |
| 20°   | 869.3 |
| 22.5° | 870.2 |
| 25°   | 868.3 |
| 27.5° | 854.7 |
| 30°   | 818.6 |
| 32.5° | 750.3 |
| 35°   | 645.1 |
| 37.5° | 515.5 |
| 40°   | 386.9 |
| 42.5° | 275.8 |
| 45°   | 178.3 |
| 47.5° | 109.2 |
| 50°   | 64.4  |
| 52.5° | 37.0  |
| 55°   | 19.5  |
| 57.5° | 8.7   |
| 60°   | 4.9   |
| 62.5° | 3.9   |
| 65°   | 3.0   |
| 67.5° | 3.0   |
| 70°   | 1.9   |
| 72.5° | 1.9   |
| 75°   | 1.9   |
| 77.5° | 1.0   |
| 80°   | 1.0   |
| 82.5° | 1.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)