

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: P583334

Luminaire Tested: **HC607D010-HM60525840-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525840-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 939.1 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

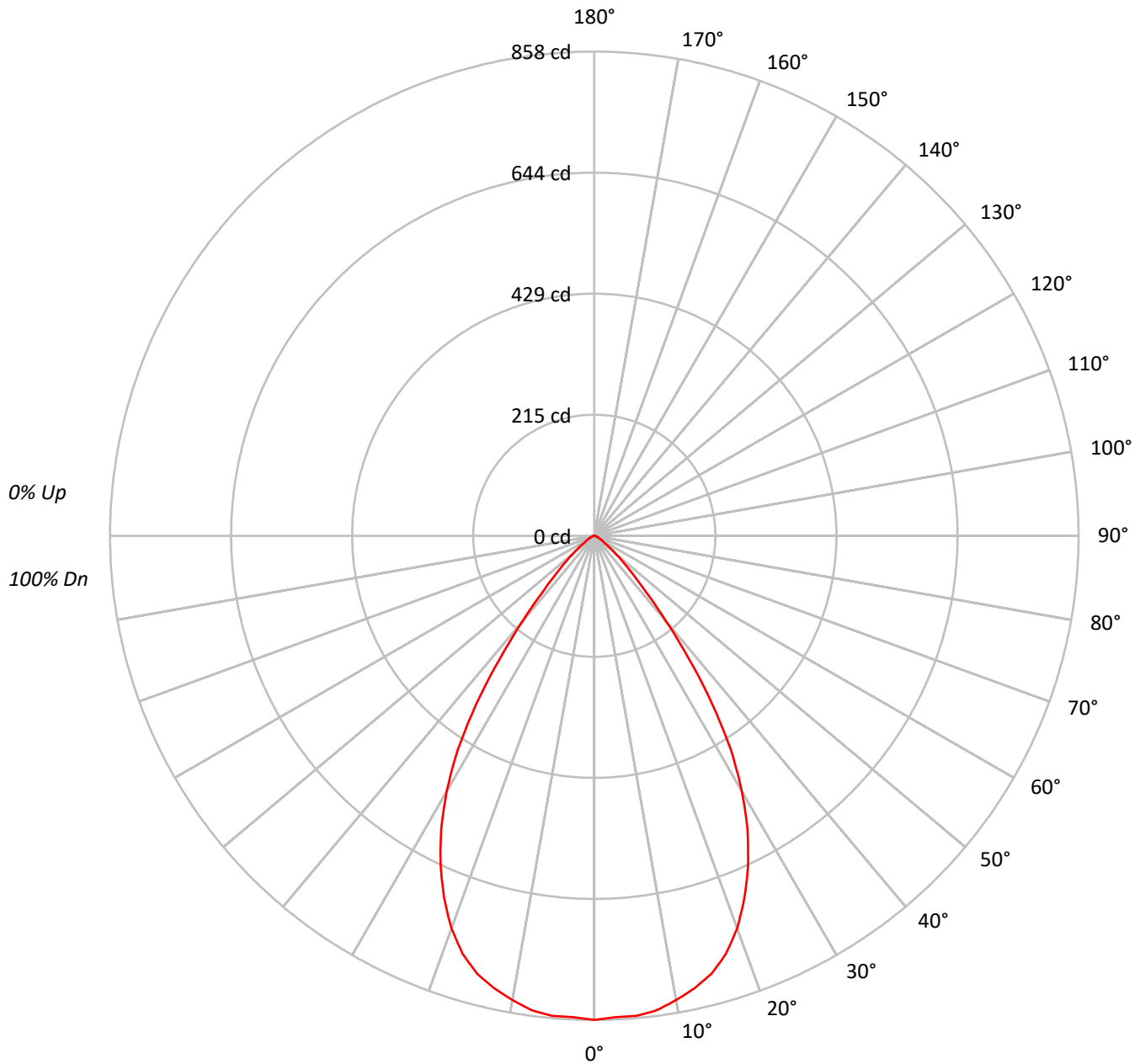
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  |  | 88  | 84  | 81  |  | 86  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  |  | 82  | 78  | 75  |  | 80  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 57  | 52  | 48  |  | 56  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 47030 |
| 5°  | 46990 |
| 10° | 46503 |
| 15° | 45573 |
| 20° | 43170 |
| 25° | 38984 |
| 30° | 33113 |
| 35° | 24447 |
| 40° | 14141 |
| 45° | 7505  |
| 50° | 4239  |
| 55° | 2217  |
| 60° | 1458  |
| 65° | 1025  |
| 70° | 737   |
| 75° | 551   |
| 80° | 442   |
| 85° | 440   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.9   | 8.6       |
| 10°-20°   | 224.6  | 23.9      |
| 20°-30°   | 293.1  | 31.2      |
| 30°-40°   | 224.0  | 23.8      |
| 40°-50°   | 81.1   | 8.6       |
| 50°-60°   | 23.5   | 2.5       |
| 60°-70°   | 8.4    | 0.9       |
| 70°-80°   | 2.9    | 0.3       |
| 80°-90°   | 0.6    | 0.1       |
| 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°    | 598.6  | 63.7      |
| 0°-40°    | 822.6  | 87.6      |
| 0°-60°    | 927.2  | 98.7      |
| 0°-90°    | 939.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 939.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 858 |      |
| 5°  | 854 | 81   |
| 15° | 803 | 225  |
| 25° | 644 | 293  |
| 35° | 365 | 224  |
| 45° | 97  | 81   |
| 55° | 23  | 24   |
| 65° | 8   | 8    |
| 75° | 3   | 3    |
| 85° | 1   | 1    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 857.9 |
| 2.5°  | 853.9 |
| 5°    | 853.9 |
| 7.5°  | 848.1 |
| 10°   | 835.4 |
| 12.5° | 820.9 |
| 15°   | 803.0 |
| 17.5° | 776.4 |
| 20°   | 740.0 |
| 22.5° | 694.9 |
| 25°   | 644.5 |
| 27.5° | 587.5 |
| 30°   | 523.1 |
| 32.5° | 450.8 |
| 35°   | 365.3 |
| 37.5° | 275.8 |
| 40°   | 197.6 |
| 42.5° | 136.5 |
| 45°   | 96.8  |
| 47.5° | 69.6  |
| 50°   | 49.7  |
| 52.5° | 35.1  |
| 55°   | 23.2  |
| 57.5° | 16.5  |
| 60°   | 13.3  |
| 62.5° | 10.7  |
| 65°   | 7.9   |
| 67.5° | 6.7   |
| 70°   | 4.6   |
| 72.5° | 3.3   |
| 75°   | 2.6   |
| 77.5° | 2.0   |
| 80°   | 1.4   |
| 82.5° | 0.7   |
| 85°   | 0.7   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)