

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: P581665

Luminaire Tested: **HC610D010-HM60525935-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 997.3 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

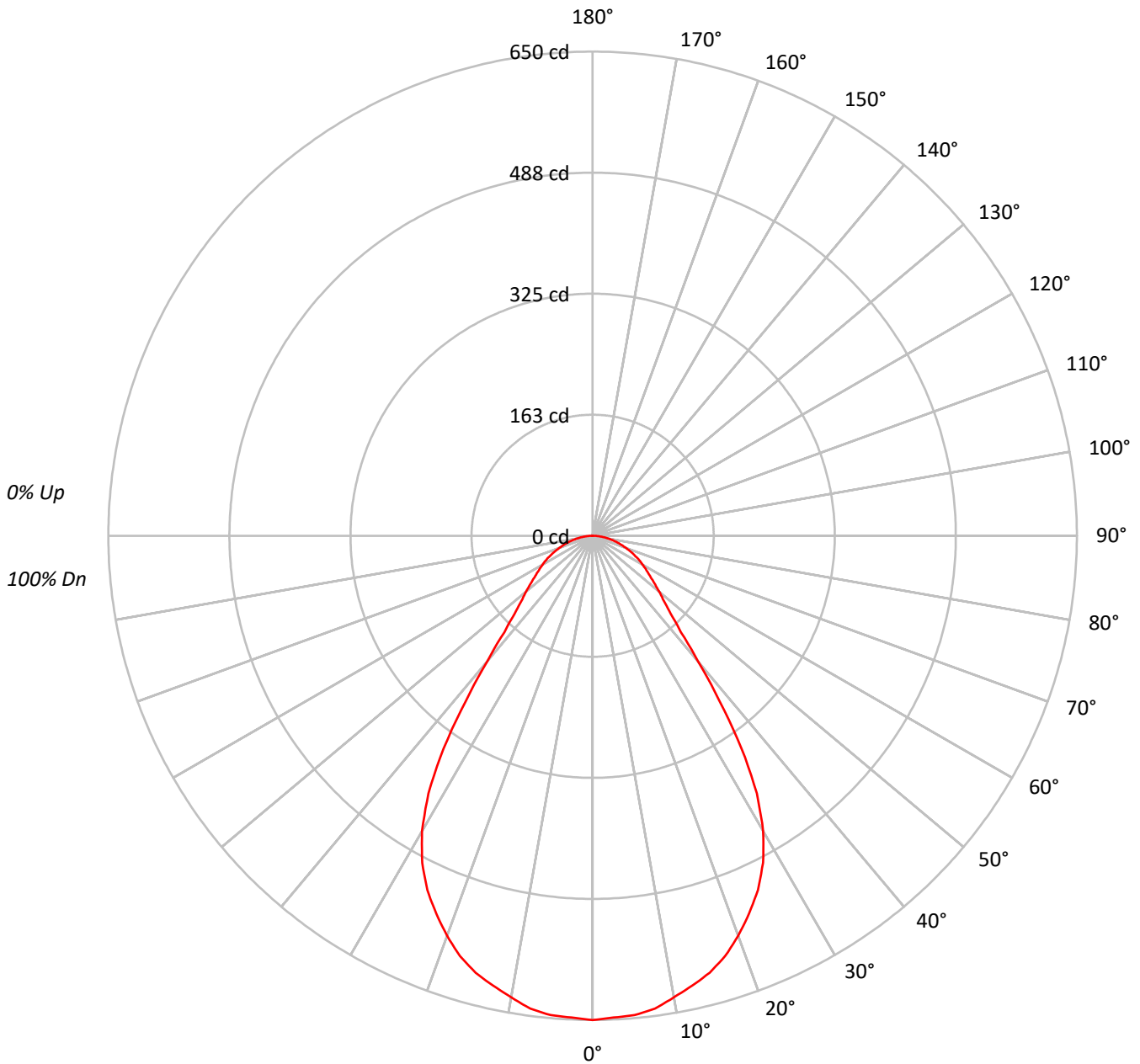
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  | 78  |    |    |   |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |   |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 65  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  | 56  |    |    |   |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |   |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 58  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |   |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 54  | 49  | 44  | 53  | 48  | 44  | 43  |    |    |   |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |   |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 35644 |
| 5°  | 35549 |
| 10° | 35019 |
| 15° | 34461 |
| 20° | 33329 |
| 25° | 31744 |
| 30° | 28985 |
| 35° | 23336 |
| 40° | 15729 |
| 45° | 11474 |
| 50° | 9919  |
| 55° | 8955  |
| 60° | 8497  |
| 65° | 8042  |
| 70° | 7565  |
| 75° | 7159  |
| 80° | 6693  |
| 85° | 6164  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.1   | 6.1       |
| 10°-20°   | 170.5  | 17.1      |
| 20°-30°   | 239.6  | 24.0      |
| 30°-40°   | 213.3  | 21.4      |
| 40°-50°   | 119.2  | 12.0      |
| 50°-60°   | 84.9   | 8.5       |
| 60°-70°   | 61.8   | 6.2       |
| 70°-80°   | 35.8   | 3.6       |
| 80°-90°   | 11.1   | 1.1       |
| 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°    | 471.2  | 47.3      |
| 0°-40°    | 684.5  | 68.6      |
| 0°-60°    | 888.7  | 89.1      |
| 0°-90°    | 997.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 997.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 650 |      |
| 5°  | 646 | 61   |
| 15° | 607 | 171  |
| 25° | 525 | 240  |
| 35° | 349 | 213  |
| 45° | 148 | 119  |
| 55° | 94  | 85   |
| 65° | 62  | 62   |
| 75° | 34  | 36   |
| 85° | 10  | 11   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 650.2 |
| 2.5°  | 647.4 |
| 5°    | 646.0 |
| 7.5°  | 640.4 |
| 10°   | 629.1 |
| 12.5° | 618.5 |
| 15°   | 607.2 |
| 17.5° | 591.7 |
| 20°   | 571.3 |
| 22.5° | 548.8 |
| 25°   | 524.8 |
| 27.5° | 495.2 |
| 30°   | 457.9 |
| 32.5° | 410.0 |
| 35°   | 348.7 |
| 37.5° | 279.7 |
| 40°   | 219.8 |
| 42.5° | 175.5 |
| 45°   | 148.0 |
| 47.5° | 129.6 |
| 50°   | 116.3 |
| 52.5° | 104.3 |
| 55°   | 93.7  |
| 57.5° | 85.2  |
| 60°   | 77.5  |
| 62.5° | 70.4  |
| 65°   | 62.0  |
| 67.5° | 54.9  |
| 70°   | 47.2  |
| 72.5° | 40.2  |
| 75°   | 33.8  |
| 77.5° | 27.5  |
| 80°   | 21.2  |
| 82.5° | 15.5  |
| 85°   | 9.8   |
| 87.5° | 5.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)