

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: P581701

Luminaire Tested: **HC615D010-HM60525827-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581701  
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: HC615D010-HM60525827-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1403.9 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

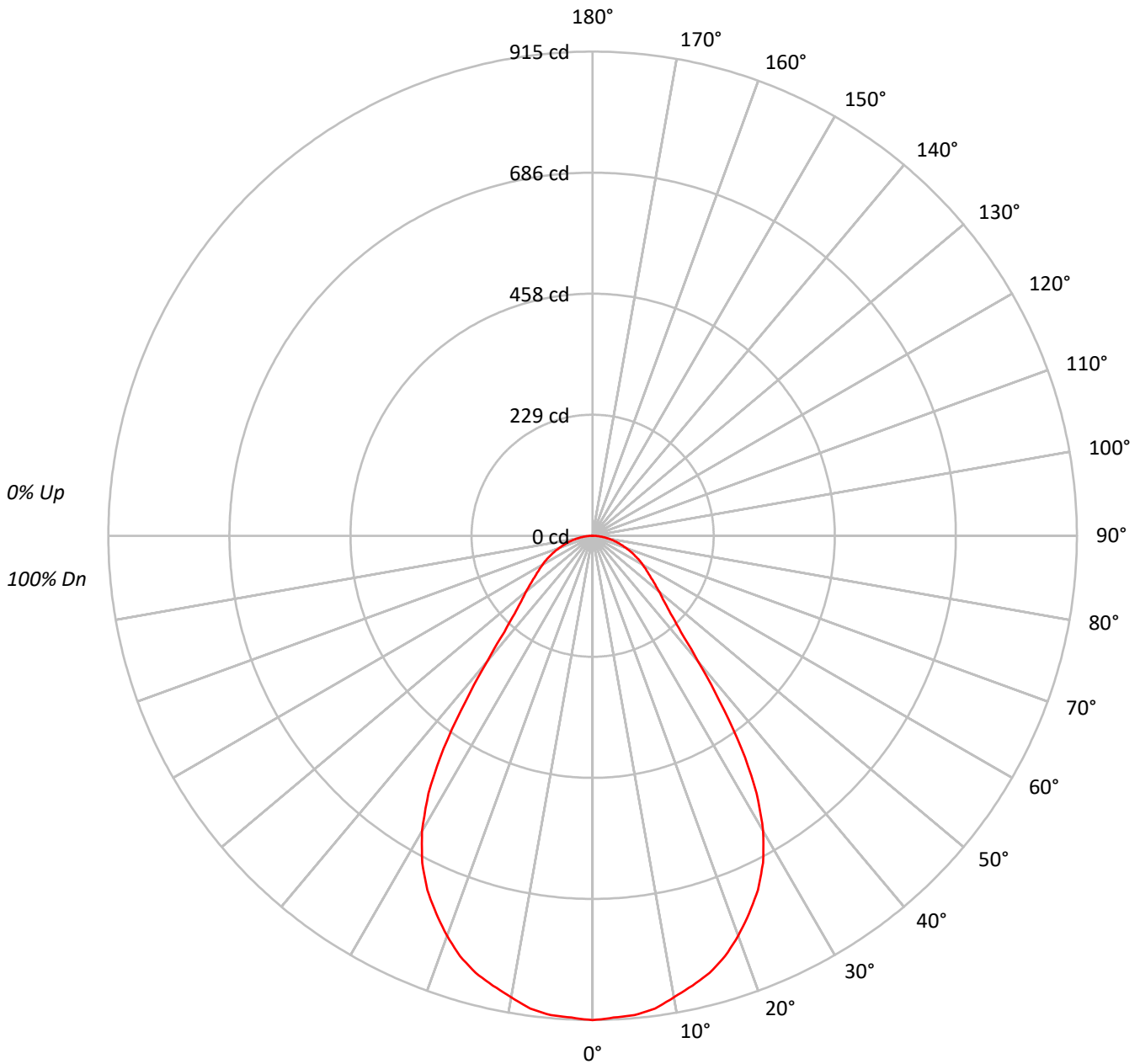
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 50182 |
| 5°  | 50044 |
| 10° | 49298 |
| 15° | 48519 |
| 20° | 46922 |
| 25° | 44688 |
| 30° | 40804 |
| 35° | 32853 |
| 40° | 22141 |
| 45° | 16149 |
| 50° | 13961 |
| 55° | 12606 |
| 60° | 11962 |
| 65° | 11324 |
| 70° | 10643 |
| 75° | 10082 |
| 80° | 9376  |
| 85° | 8680  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.1   | 6.1       |
| 10°-20°   | 240.1  | 17.1      |
| 20°-30°   | 337.3  | 24.0      |
| 30°-40°   | 300.2  | 21.4      |
| 40°-50°   | 167.8  | 12.0      |
| 50°-60°   | 119.6  | 8.5       |
| 60°-70°   | 87.0   | 6.2       |
| 70°-80°   | 50.3   | 3.6       |
| 80°-90°   | 15.6   | 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°    | 663.4  | 47.3      |
| 0°-40°    | 963.6  | 68.6      |
| 0°-60°    | 1251.0 | 89.1      |
| 0°-90°    | 1403.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1403.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 915 |      |
| 5°  | 909 | 86   |
| 15° | 855 | 240  |
| 25° | 739 | 337  |
| 35° | 491 | 300  |
| 45° | 208 | 168  |
| 55° | 132 | 120  |
| 65° | 87  | 87   |
| 75° | 48  | 50   |
| 85° | 14  | 16   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 915.4 |
| 2.5°  | 911.4 |
| 5°    | 909.4 |
| 7.5°  | 901.4 |
| 10°   | 885.6 |
| 12.5° | 870.7 |
| 15°   | 854.9 |
| 17.5° | 833.0 |
| 20°   | 804.3 |
| 22.5° | 772.5 |
| 25°   | 738.8 |
| 27.5° | 697.1 |
| 30°   | 644.6 |
| 32.5° | 577.1 |
| 35°   | 490.9 |
| 37.5° | 393.7 |
| 40°   | 309.4 |
| 42.5° | 247.0 |
| 45°   | 208.3 |
| 47.5° | 182.5 |
| 50°   | 163.7 |
| 52.5° | 146.8 |
| 55°   | 131.9 |
| 57.5° | 120.0 |
| 60°   | 109.1 |
| 62.5° | 99.2  |
| 65°   | 87.3  |
| 67.5° | 77.4  |
| 70°   | 66.4  |
| 72.5° | 56.5  |
| 75°   | 47.6  |
| 77.5° | 38.7  |
| 80°   | 29.7  |
| 82.5° | 21.8  |
| 85°   | 13.8  |
| 87.5° | 6.9   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)