

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: P581741

Luminaire Tested: **HC615D010-HM60525835-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525835-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1747.6 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

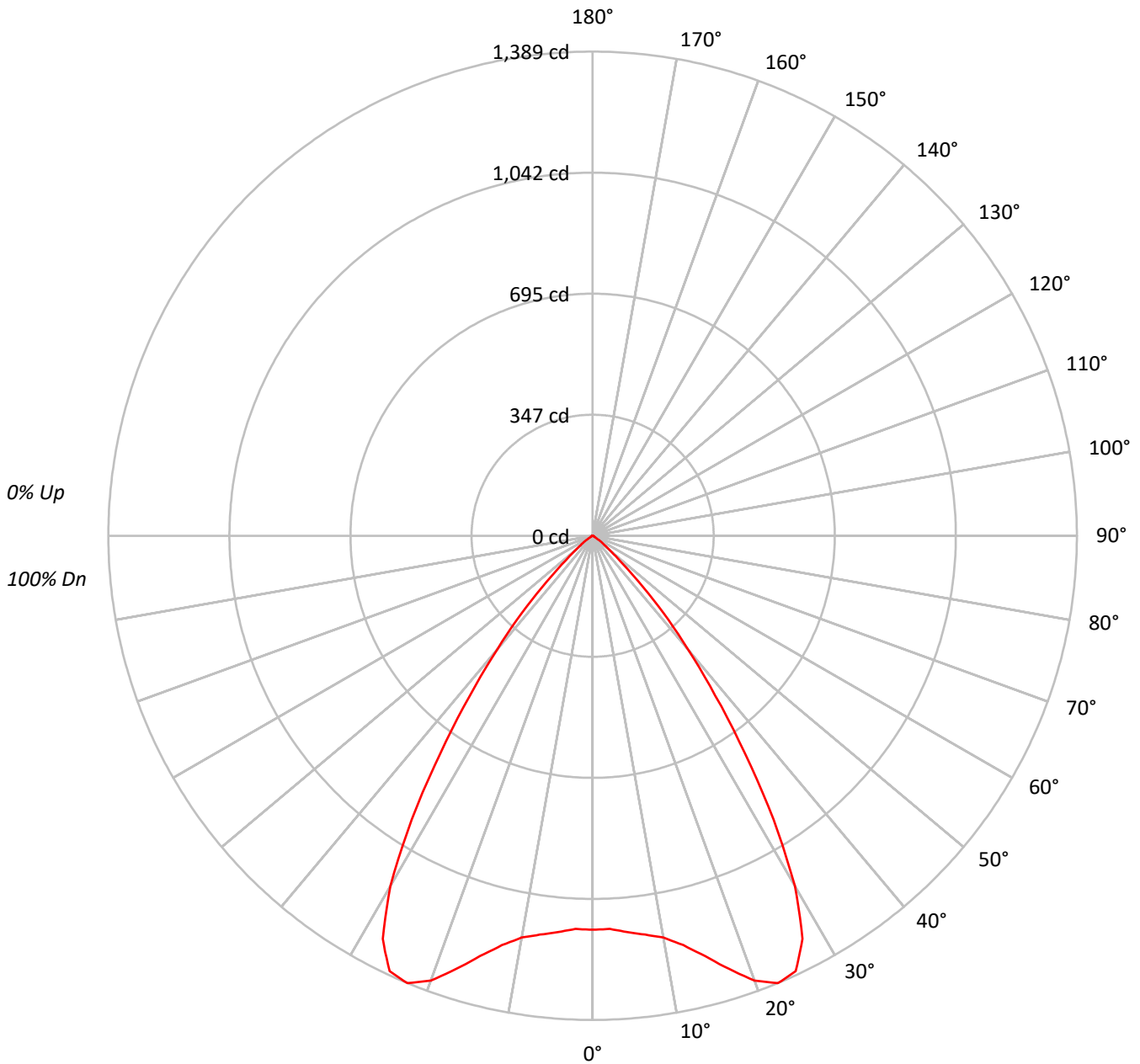
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |    |   |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  |    |    |   |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |    |    |   |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 82  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |    |    |   |
| 4   | 95  | 87  | 81  | 77  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 82  | 78  | 74  | 80  | 76  | 74  | 72  |    |    |   |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  |    |    |   |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  | 71  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |   |
| 7   | 80  | 70  | 63  | 59  | 79  | 69  | 63  | 59  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |   |
| 8   | 76  | 65  | 59  | 54  | 74  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 52  |    |    |   |
| 9   | 71  | 61  | 55  | 50  | 70  | 60  | 54  | 50  | 60  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 50  | 48  |    |    |   |
| 10  | 68  | 57  | 51  | 47  | 67  | 57  | 51  | 47  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 50  | 46  | 45  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 61952 |
| 5°  | 62789 |
| 10° | 65146 |
| 15° | 70846 |
| 20° | 79206 |
| 25° | 83370 |
| 30° | 73391 |
| 35° | 50908 |
| 40° | 30393 |
| 45° | 14451 |
| 50° | 5450  |
| 55° | 2275  |
| 60° | 713   |
| 65° | 558   |
| 70° | 353   |
| 75° | 233   |
| 80° | 347   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.8  | 6.3       |
| 10°-20°   | 358.4  | 20.5      |
| 20°-30°   | 614.2  | 35.1      |
| 30°-40°   | 477.0  | 27.3      |
| 40°-50°   | 157.7  | 9.0       |
| 50°-60°   | 24.2   | 1.4       |
| 60°-70°   | 4.3    | 0.2       |
| 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°    | 1082.4 | 61.9      |
| 0°-40°    | 1559.4 | 89.2      |
| 0°-60°    | 1741.3 | 99.6      |
| 0°-90°    | 1747.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1747.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1130 |      |
| 5°  | 1141 | 110  |
| 15° | 1248 | 358  |
| 25° | 1378 | 614  |
| 35° | 761  | 477  |
| 45° | 186  | 158  |
| 55° | 24   | 24   |
| 65° | 4    | 4    |
| 75° | 1    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1130.1 |
| 2.5°  | 1129.1 |
| 5°    | 1141.0 |
| 7.5°  | 1154.0 |
| 10°   | 1170.3 |
| 12.5° | 1202.8 |
| 15°   | 1248.3 |
| 17.5° | 1303.5 |
| 20°   | 1357.7 |
| 22.5° | 1389.1 |
| 25°   | 1378.3 |
| 27.5° | 1303.5 |
| 30°   | 1159.4 |
| 32.5° | 965.4  |
| 35°   | 760.7  |
| 37.5° | 577.5  |
| 40°   | 424.7  |
| 42.5° | 300.1  |
| 45°   | 186.4  |
| 47.5° | 104.1  |
| 50°   | 63.9   |
| 52.5° | 39.0   |
| 55°   | 23.8   |
| 57.5° | 11.9   |
| 60°   | 6.5    |
| 62.5° | 5.4    |
| 65°   | 4.3    |
| 67.5° | 3.3    |
| 70°   | 2.2    |
| 72.5° | 2.2    |
| 75°   | 1.1    |
| 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)