

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: P583129

Luminaire Tested: **HC655D010-HM64560940-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560940-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5119.6 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

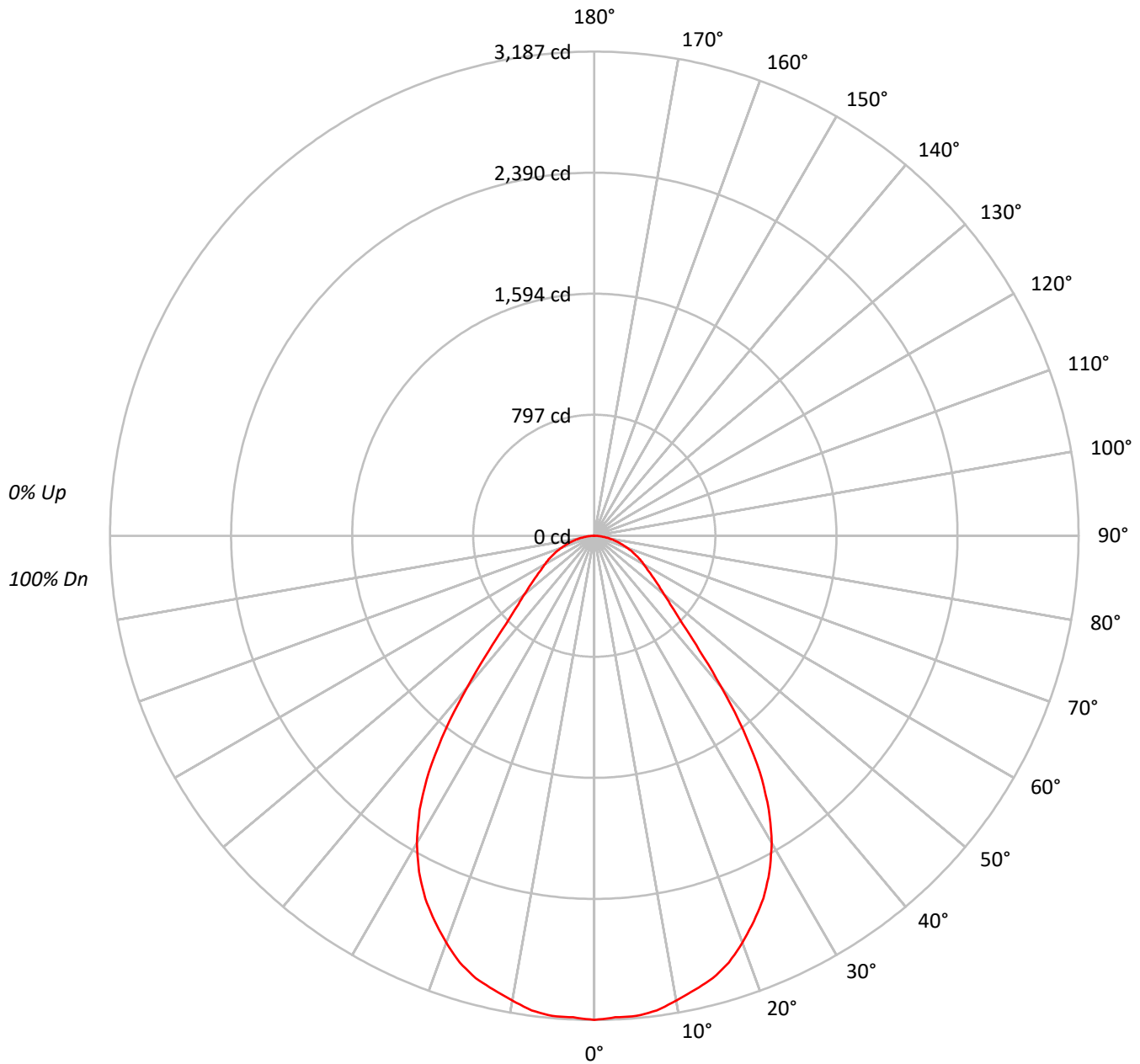
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  | 50  | 30 | 10 |
| 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  | 94  | 92  | 90  | 89  |    |    |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |
| 3   | 96  | 87  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 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  | 76  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 52  | 51  |    |    |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  |    |    |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 41  | 39  |    |    |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 36  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 174706 |
| 5°  | 174603 |
| 10° | 172915 |
| 15° | 171119 |
| 20° | 166282 |
| 25° | 159263 |
| 30° | 147808 |
| 35° | 127174 |
| 40° | 92831  |
| 45° | 63604  |
| 50° | 51128  |
| 55° | 44567  |
| 60° | 41126  |
| 65° | 39109  |
| 70° | 36513  |
| 75° | 34144  |
| 80° | 31001  |
| 85° | 26481  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 300.8  | 5.9       |
| 10°-20°   | 846.8  | 16.5      |
| 20°-30°   | 1204.3 | 23.5      |
| 30°-40°   | 1159.5 | 22.6      |
| 40°-50°   | 667.1  | 13.0      |
| 50°-60°   | 422.7  | 8.3       |
| 60°-70°   | 299.2  | 5.8       |
| 70°-80°   | 170.6  | 3.3       |
| 80°-90°   | 48.7   | 1.0       |
| 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°    | 2351.9 | 45.9      |
| 0°-40°    | 3511.3 | 68.6      |
| 0°-60°    | 4601.1 | 89.9      |
| 0°-90°    | 5119.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5119.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3187 |      |
| 5°  | 3173 | 301  |
| 15° | 3015 | 847  |
| 25° | 2633 | 1204 |
| 35° | 1900 | 1159 |
| 45° | 820  | 667  |
| 55° | 466  | 423  |
| 65° | 302  | 299  |
| 75° | 161  | 171  |
| 85° | 42   | 49   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3186.9 |
| 2.5°  | 3172.9 |
| 5°    | 3172.9 |
| 7.5°  | 3151.9 |
| 10°   | 3106.3 |
| 12.5° | 3060.7 |
| 15°   | 3015.1 |
| 17.5° | 2945.0 |
| 20°   | 2850.3 |
| 22.5° | 2745.2 |
| 25°   | 2633.0 |
| 27.5° | 2496.2 |
| 30°   | 2335.0 |
| 32.5° | 2138.6 |
| 35°   | 1900.3 |
| 37.5° | 1609.2 |
| 40°   | 1297.2 |
| 42.5° | 1023.8 |
| 45°   | 820.4  |
| 47.5° | 690.6  |
| 50°   | 599.5  |
| 52.5° | 525.8  |
| 55°   | 466.3  |
| 57.5° | 413.7  |
| 60°   | 375.1  |
| 62.5° | 340.1  |
| 65°   | 301.5  |
| 67.5° | 266.4  |
| 70°   | 227.8  |
| 72.5° | 192.8  |
| 75°   | 161.2  |
| 77.5° | 129.8  |
| 80°   | 98.2   |
| 82.5° | 70.2   |
| 85°   | 42.1   |
| 87.5° | 17.5   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)