

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: P582995

Luminaire Tested: **HC655D010-HM64560827-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560827-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4910.9 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

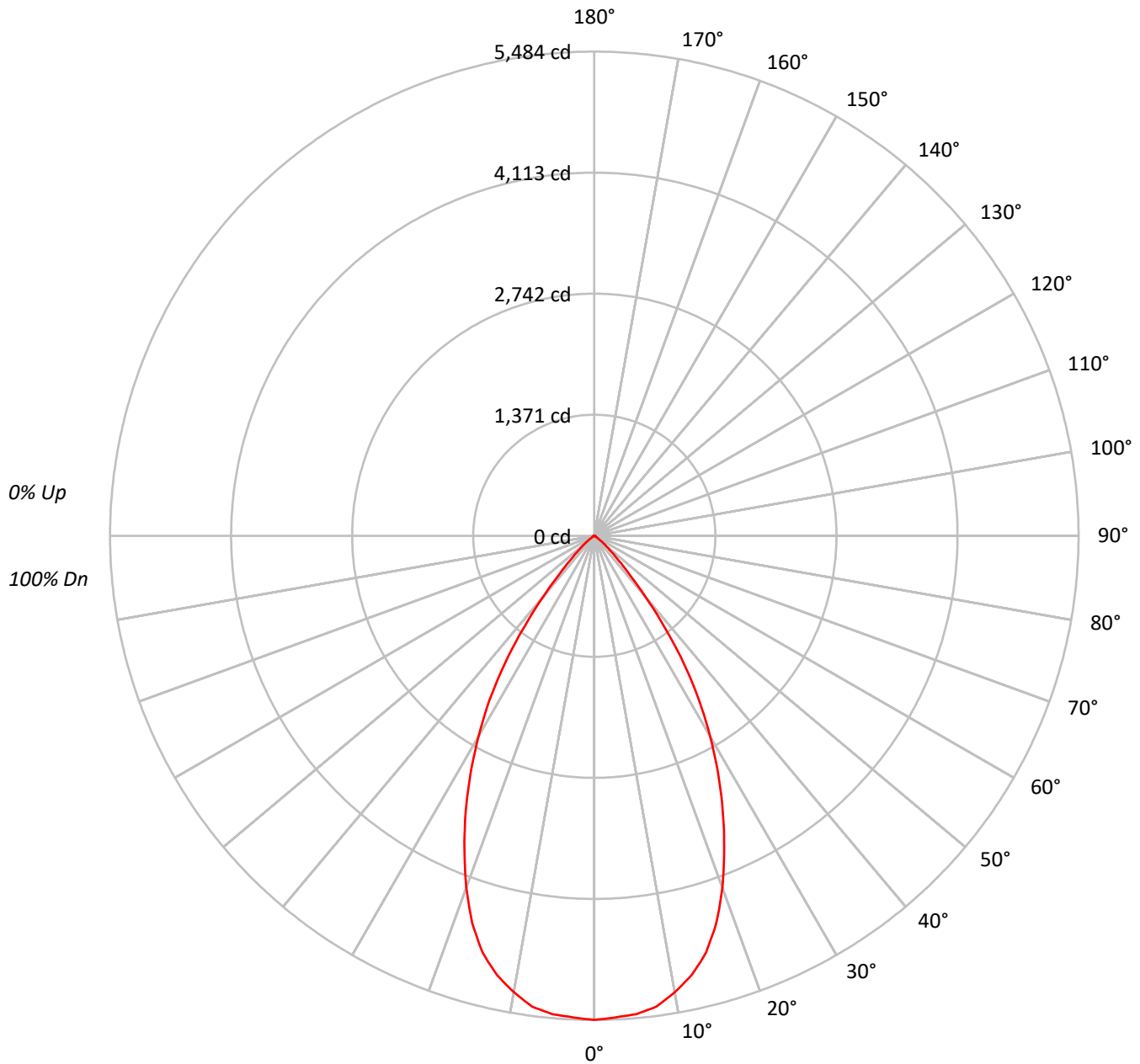
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 94  | 98  | 95  | 92  |  | 95  | 93  | 90  |  | 92  |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  |  | 90  | 86  | 84  |  | 87  |
| 4   | 97  | 90  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 82  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  |  | 79  | 75  | 72  |  | 78  |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  |  | 75  | 71  | 67  |  | 74  |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 67  | 63  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  |
| 8   | 79  | 70  | 64  | 59  | 78  | 69  | 63  | 59  | 68  | 63  | 59  |  | 67  | 62  | 59  |  | 66  |
| 9   | 75  | 66  | 60  | 56  | 74  | 65  | 59  | 56  | 64  | 59  | 55  |  | 63  | 59  | 55  |  | 62  |
| 10  | 72  | 62  | 56  | 52  | 71  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 300623 |
| 5°  | 299350 |
| 10° | 292268 |
| 15° | 277436 |
| 20° | 247285 |
| 25° | 208306 |
| 30° | 165962 |
| 35° | 118407 |
| 40° | 63669  |
| 45° | 27274  |
| 50° | 12409  |
| 55° | 4521   |
| 60° | 2226   |
| 65° | 1751   |
| 70° | 1635   |
| 75° | 720    |
| 80° | 1073   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 513.5  | 10.5      |
| 10°-20°   | 1355.0 | 27.6      |
| 20°-30°   | 1569.4 | 32.0      |
| 30°-40°   | 1085.2 | 22.1      |
| 40°-50°   | 313.4  | 6.4       |
| 50°-60°   | 53.9   | 1.1       |
| 60°-70°   | 13.8   | 0.3       |
| 70°-80°   | 5.3    | 0.1       |
| 80°-90°   | 1.4    | 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°    | 3437.9 | 70.0      |
| 0°-40°    | 4523.1 | 92.1      |
| 0°-60°    | 4890.4 | 99.6      |
| 0°-90°    | 4910.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4910.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5484 |      |
| 5°  | 5440 | 514  |
| 15° | 4888 | 1355 |
| 25° | 3444 | 1569 |
| 35° | 1769 | 1085 |
| 45° | 352  | 313  |
| 55° | 47   | 54   |
| 65° | 14   | 14   |
| 75° | 3    | 5    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5483.8 |
| 2.5°  | 5460.0 |
| 5°    | 5439.8 |
| 7.5°  | 5378.9 |
| 10°   | 5250.4 |
| 12.5° | 5094.7 |
| 15°   | 4888.4 |
| 17.5° | 4597.4 |
| 20°   | 4238.8 |
| 22.5° | 3843.0 |
| 25°   | 3443.8 |
| 27.5° | 3034.5 |
| 30°   | 2621.8 |
| 32.5° | 2209.0 |
| 35°   | 1769.3 |
| 37.5° | 1312.5 |
| 40°   | 889.7  |
| 42.5° | 561.6  |
| 45°   | 351.8  |
| 47.5° | 226.7  |
| 50°   | 145.5  |
| 52.5° | 88.0   |
| 55°   | 47.3   |
| 57.5° | 27.1   |
| 60°   | 20.3   |
| 62.5° | 16.9   |
| 65°   | 13.5   |
| 67.5° | 10.2   |
| 70°   | 10.2   |
| 72.5° | 6.7    |
| 75°   | 3.4    |
| 77.5° | 3.4    |
| 80°   | 3.4    |
| 82.5° | 3.4    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)