

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: P583118

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560940-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4968.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

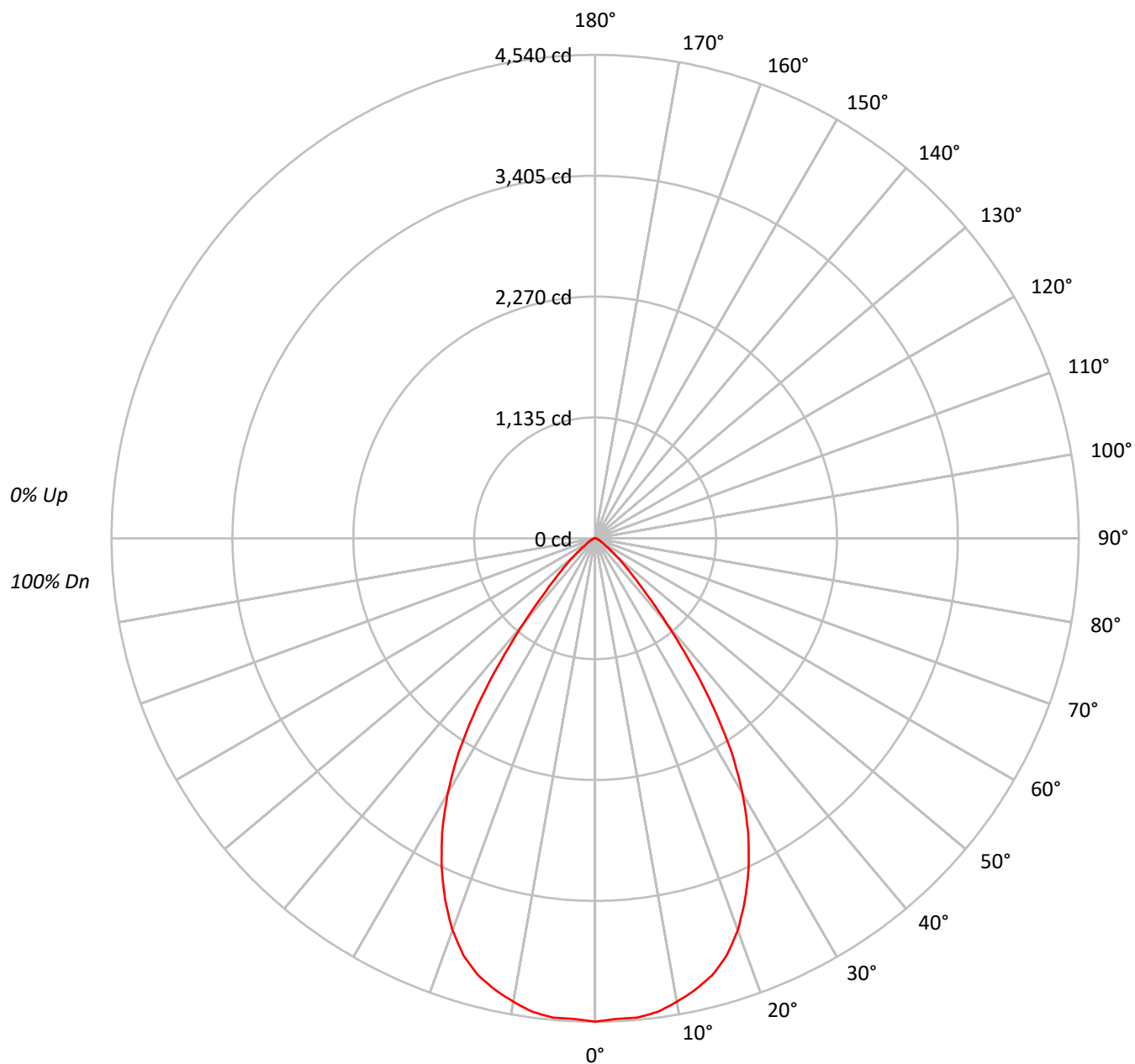
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  |  | 88  | 84  | 81  |  | 86  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 79  | 76  |  | 82  | 78  | 75  |  | 80  |
| 5   | 90  | 81  | 75  | 71  | 89  | 80  | 75  | 70  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 6   | 85  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 7   | 81  | 71  | 65  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  |
| 10  | 69  | 59  | 53  | 49  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 57  | 52  | 48  |  | 56  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 248856 |
| 5°  | 248651 |
| 10° | 246060 |
| 15° | 241114 |
| 20° | 228401 |
| 25° | 206256 |
| 30° | 175217 |
| 35° | 129362 |
| 40° | 74812  |
| 45° | 39710  |
| 50° | 22438  |
| 55° | 11737  |
| 60° | 7697   |
| 65° | 5461   |
| 70° | 3943   |
| 75° | 2987   |
| 80° | 2210   |
| 85° | 2201   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 428.2  | 8.6       |
| 10°-20°   | 1188.2 | 23.9      |
| 20°-30°   | 1550.9 | 31.2      |
| 30°-40°   | 1185.1 | 23.9      |
| 40°-50°   | 429.1  | 8.6       |
| 50°-60°   | 124.6  | 2.5       |
| 60°-70°   | 44.6   | 0.9       |
| 70°-80°   | 15.3   | 0.3       |
| 80°-90°   | 2.9    | 0.1       |
| 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°    | 3167.3 | 63.7      |
| 0°-40°    | 4352.5 | 87.6      |
| 0°-60°    | 4906.2 | 98.7      |
| 0°-90°    | 4968.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4968.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4540 |      |
| 5°  | 4518 | 428  |
| 15° | 4248 | 1188 |
| 25° | 3410 | 1551 |
| 35° | 1933 | 1185 |
| 45° | 512  | 429  |
| 55° | 123  | 125  |
| 65° | 42   | 45   |
| 75° | 14   | 15   |
| 85° | 4    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4539.5 |
| 2.5°  | 4518.5 |
| 5°    | 4518.5 |
| 7.5°  | 4486.9 |
| 10°   | 4420.3 |
| 12.5° | 4343.0 |
| 15°   | 4248.4 |
| 17.5° | 4108.1 |
| 20°   | 3915.1 |
| 22.5° | 3676.5 |
| 25°   | 3409.9 |
| 27.5° | 3108.2 |
| 30°   | 2768.0 |
| 32.5° | 2385.5 |
| 35°   | 1933.0 |
| 37.5° | 1459.3 |
| 40°   | 1045.4 |
| 42.5° | 722.7  |
| 45°   | 512.2  |
| 47.5° | 368.4  |
| 50°   | 263.1  |
| 52.5° | 186.0  |
| 55°   | 122.8  |
| 57.5° | 87.7   |
| 60°   | 70.2   |
| 62.5° | 56.1   |
| 65°   | 42.1   |
| 67.5° | 35.1   |
| 70°   | 24.6   |
| 72.5° | 17.5   |
| 75°   | 14.1   |
| 77.5° | 10.5   |
| 80°   | 7.0    |
| 82.5° | 3.5    |
| 85°   | 3.5    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)