

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: P582385

Luminaire Tested: **HC635D010-HM63040935-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582385  
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: HC635D010-HM63040935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3424.9 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

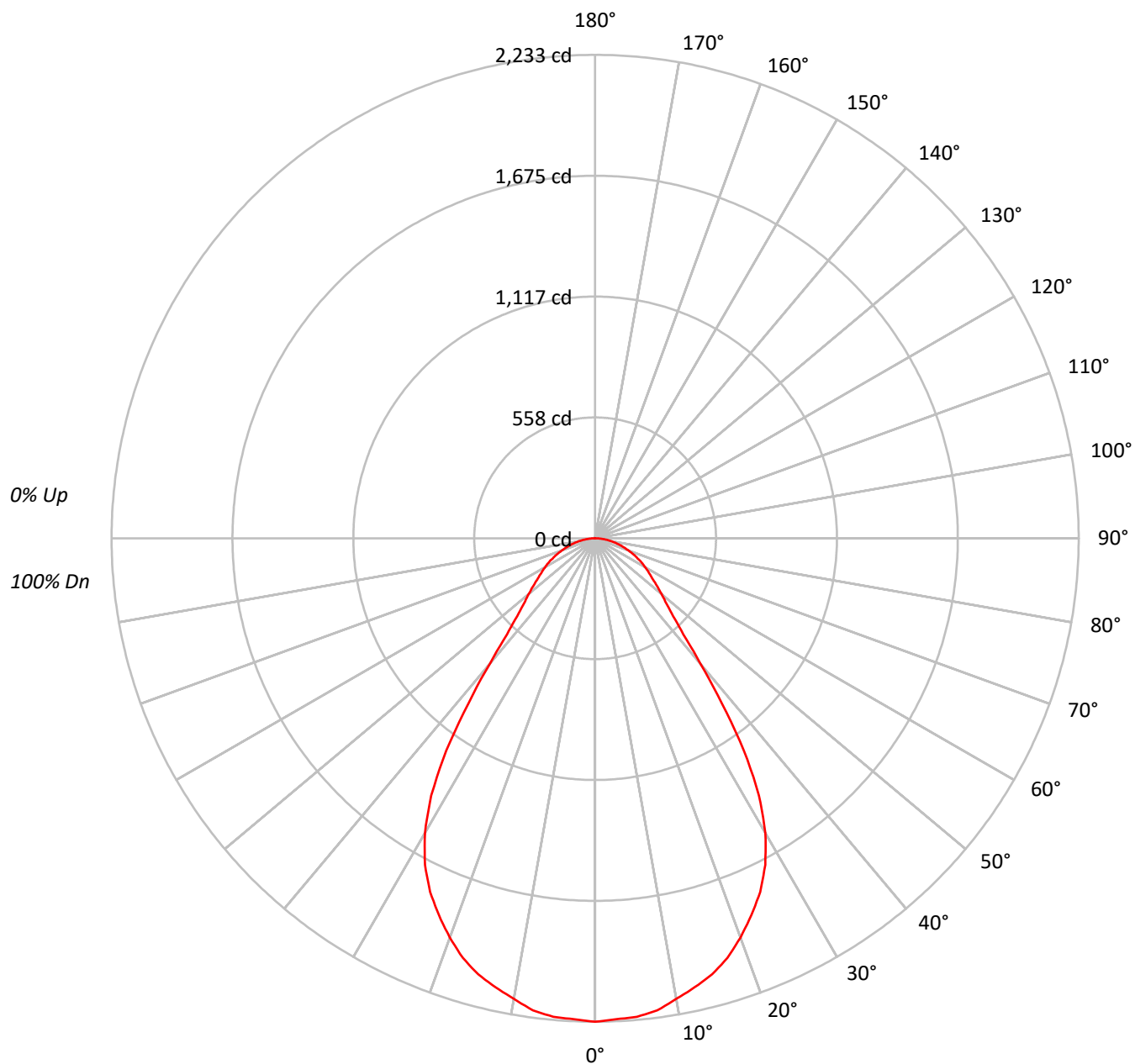
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  |  | 101 | 98  | 96  |  |  | 97  | 95  | 93  |  |  | 93  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  |  | 91  | 87  | 83  |  |  | 88  | 85  | 82  |  |  | 85  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  |  | 83  | 78  | 73  |  |  | 80  | 76  | 72  |  |  | 78  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  |  | 76  | 70  | 65  |  |  | 74  | 69  | 65  |  |  | 72  |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  |  | 70  | 64  | 59  |  |  | 68  | 63  | 58  |  |  | 66  |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  |  | 64  | 58  | 53  |  |  | 63  | 57  | 53  |  |  | 61  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  |  | 60  | 53  | 49  |  |  | 58  | 53  | 48  |  |  | 57  |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  |  | 56  | 49  | 45  |  |  | 54  | 49  | 44  |  |  | 53  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  |  | 52  | 46  | 41  |  |  | 51  | 45  | 41  |  |  | 50  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  |  | 49  | 42  | 38  |  |  | 48  | 42  | 38  |  |  | 47  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 122419 |
| 5°  | 122089 |
| 10° | 120266 |
| 15° | 118355 |
| 20° | 114466 |
| 25° | 109022 |
| 30° | 99541  |
| 35° | 80147  |
| 40° | 54015  |
| 45° | 39392  |
| 50° | 34046  |
| 55° | 30747  |
| 60° | 29175  |
| 65° | 27616  |
| 70° | 25982  |
| 75° | 24591  |
| 80° | 22920  |
| 85° | 21260  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 210.0  | 6.1       |
| 10°-20°   | 585.6  | 17.1      |
| 20°-30°   | 822.8  | 24.0      |
| 30°-40°   | 732.4  | 21.4      |
| 40°-50°   | 409.3  | 12.0      |
| 50°-60°   | 291.6  | 8.5       |
| 60°-70°   | 212.2  | 6.2       |
| 70°-80°   | 122.8  | 3.6       |
| 80°-90°   | 38.1   | 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°    | 1618.4 | 47.3      |
| 0°-40°    | 2350.8 | 68.6      |
| 0°-60°    | 3051.7 | 89.1      |
| 0°-90°    | 3424.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3424.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2233 |      |
| 5°  | 2219 | 210  |
| 15° | 2085 | 586  |
| 25° | 1802 | 823  |
| 35° | 1198 | 732  |
| 45° | 508  | 409  |
| 55° | 322  | 292  |
| 65° | 213  | 212  |
| 75° | 116  | 123  |
| 85° | 34   | 38   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2233.1 |
| 2.5°  | 2223.4 |
| 5°    | 2218.6 |
| 7.5°  | 2199.2 |
| 10°   | 2160.5 |
| 12.5° | 2124.2 |
| 15°   | 2085.4 |
| 17.5° | 2032.2 |
| 20°   | 1962.1 |
| 22.5° | 1884.7 |
| 25°   | 1802.4 |
| 27.5° | 1700.8 |
| 30°   | 1572.5 |
| 32.5° | 1408.1 |
| 35°   | 1197.6 |
| 37.5° | 960.4  |
| 40°   | 754.8  |
| 42.5° | 602.4  |
| 45°   | 508.1  |
| 47.5° | 445.2  |
| 50°   | 399.2  |
| 52.5° | 358.0  |
| 55°   | 321.7  |
| 57.5° | 292.7  |
| 60°   | 266.1  |
| 62.5° | 241.9  |
| 65°   | 212.9  |
| 67.5° | 188.7  |
| 70°   | 162.1  |
| 72.5° | 137.9  |
| 75°   | 116.1  |
| 77.5° | 94.4   |
| 80°   | 72.6   |
| 82.5° | 53.2   |
| 85°   | 33.8   |
| 87.5° | 16.9   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)