

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: P582985

Luminaire Tested: **HC605D010-HM60525940-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582985  
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: HC605D010-HM60525940-61WDW  
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: 636.8 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

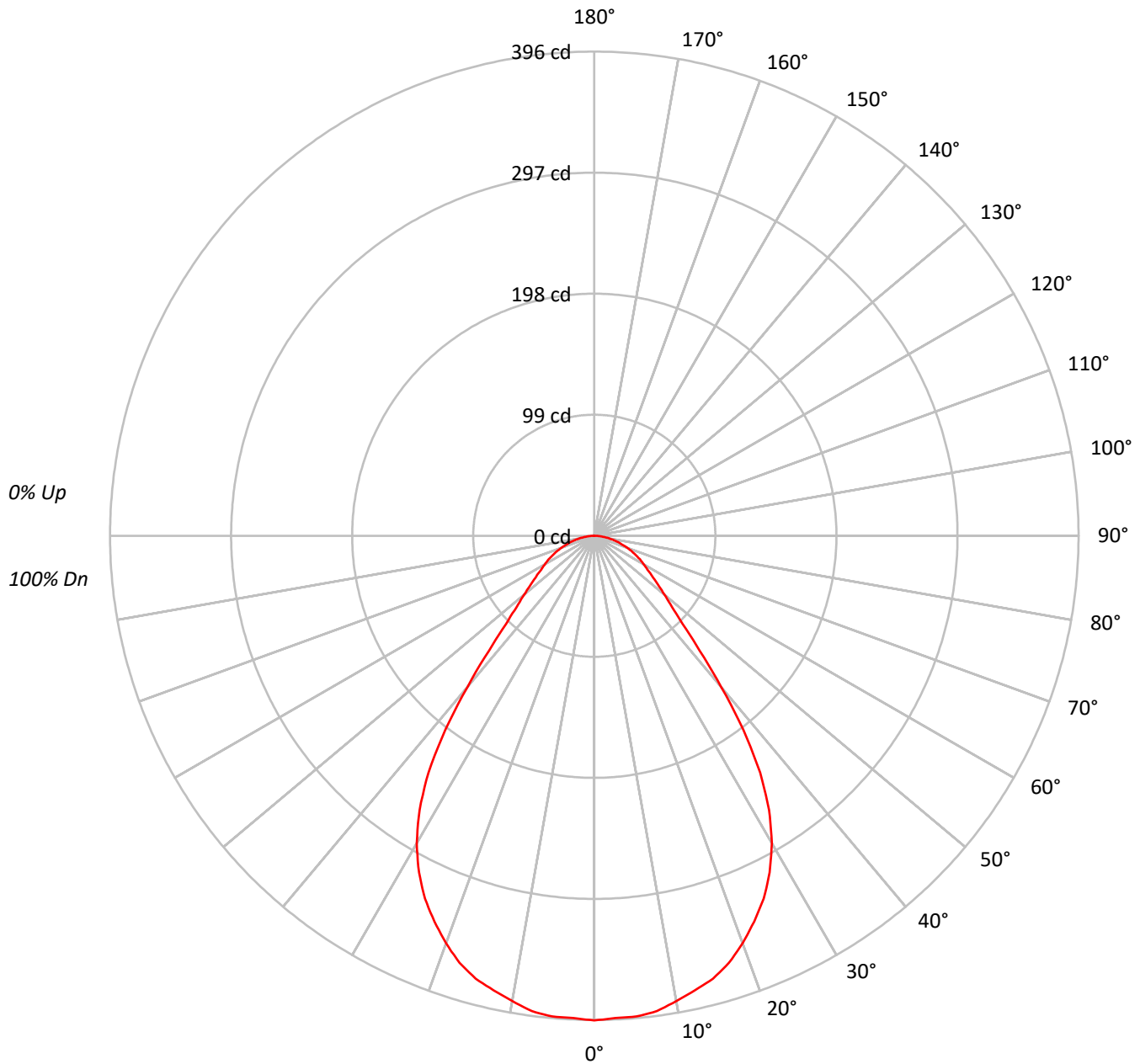
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 21731 |
| 5°  | 21720 |
| 10° | 21515 |
| 15° | 21283 |
| 20° | 20687 |
| 25° | 19816 |
| 30° | 18383 |
| 35° | 15821 |
| 40° | 11550 |
| 45° | 7908  |
| 50° | 6362  |
| 55° | 5543  |
| 60° | 5120  |
| 65° | 4864  |
| 70° | 4552  |
| 75° | 4257  |
| 80° | 3852  |
| 85° | 3271  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.4   | 5.9       |
| 10°-20°   | 105.3  | 16.5      |
| 20°-30°   | 149.8  | 23.5      |
| 30°-40°   | 144.2  | 22.6      |
| 40°-50°   | 83.0   | 13.0      |
| 50°-60°   | 52.6   | 8.3       |
| 60°-70°   | 37.2   | 5.8       |
| 70°-80°   | 21.3   | 3.3       |
| 80°-90°   | 6.0    | 0.9       |
| 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°    | 292.6  | 45.9      |
| 0°-40°    | 436.8  | 68.6      |
| 0°-60°    | 572.4  | 89.9      |
| 0°-90°    | 636.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 636.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 396 |      |
| 5°  | 395 | 37   |
| 15° | 375 | 105  |
| 25° | 328 | 150  |
| 35° | 236 | 144  |
| 45° | 102 | 83   |
| 55° | 58  | 53   |
| 65° | 38  | 37   |
| 75° | 20  | 21   |
| 85° | 5   | 6    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 396.4 |
| 2.5°  | 394.7 |
| 5°    | 394.7 |
| 7.5°  | 392.1 |
| 10°   | 386.5 |
| 12.5° | 380.7 |
| 15°   | 375.0 |
| 17.5° | 366.3 |
| 20°   | 354.6 |
| 22.5° | 341.5 |
| 25°   | 327.6 |
| 27.5° | 310.5 |
| 30°   | 290.4 |
| 32.5° | 266.0 |
| 35°   | 236.4 |
| 37.5° | 200.2 |
| 40°   | 161.4 |
| 42.5° | 127.4 |
| 45°   | 102.0 |
| 47.5° | 85.9  |
| 50°   | 74.6  |
| 52.5° | 65.4  |
| 55°   | 58.0  |
| 57.5° | 51.4  |
| 60°   | 46.7  |
| 62.5° | 42.3  |
| 65°   | 37.5  |
| 67.5° | 33.1  |
| 70°   | 28.4  |
| 72.5° | 24.0  |
| 75°   | 20.1  |
| 77.5° | 16.2  |
| 80°   | 12.2  |
| 82.5° | 8.7   |
| 85°   | 5.2   |
| 87.5° | 2.1   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)