

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P593007

Luminaire Tested: **HCC6S05D010MW-HM60525950-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S05D010MW-HM60525950-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

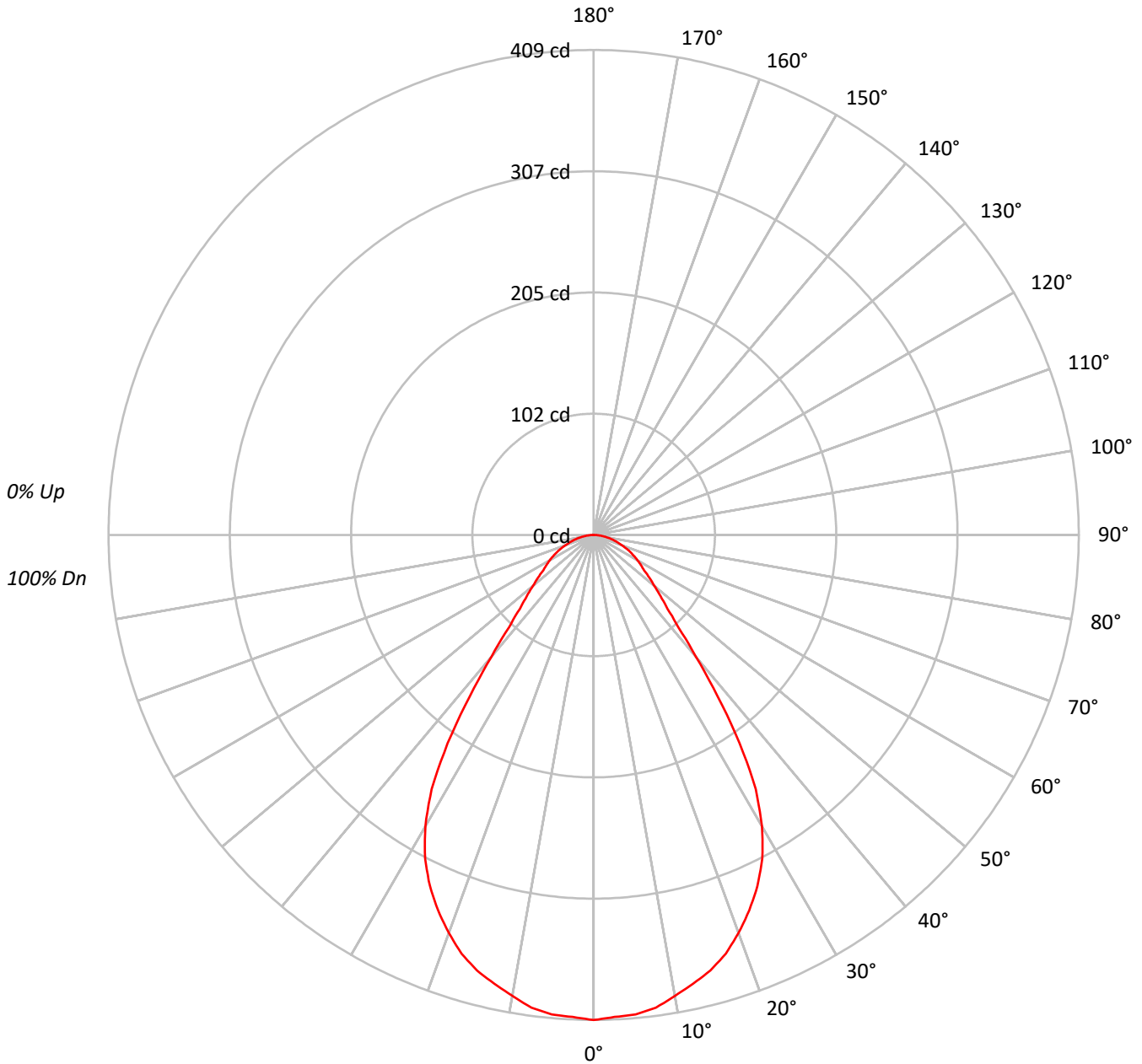
Lumens per Lamp: N/A  
Luminaire Lumens: 602.3 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |   |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |    |   |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |    |    |    |   |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |   |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |    |    |    |   |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 63  | 59  | 57  |    |    |    |   |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 58  | 54  | 62  | 58  | 54  | 52  |    |    |    |   |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |    |   |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |    |   |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |   |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 22427 |
| 5°  | 22342 |
| 10° | 21971 |
| 15° | 21578 |
| 20° | 20838 |
| 25° | 19761 |
| 30° | 17971 |
| 35° | 14362 |
| 40° | 9582  |
| 45° | 6830  |
| 50° | 5689  |
| 55° | 4960  |
| 60° | 4682  |
| 65° | 4410  |
| 70° | 4055  |
| 75° | 3791  |
| 80° | 3410  |
| 85° | 2956  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.4   | 6.4       |
| 10°-20°   | 106.8  | 17.7      |
| 20°-30°   | 149.2  | 24.8      |
| 30°-40°   | 131.4  | 21.8      |
| 40°-50°   | 71.0   | 11.8      |
| 50°-60°   | 47.5   | 7.9       |
| 60°-70°   | 33.6   | 5.6       |
| 70°-80°   | 18.9   | 3.1       |
| 80°-90°   | 5.4    | 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°    | 294.4  | 48.9      |
| 0°-40°    | 425.8  | 70.7      |
| 0°-60°    | 544.3  | 90.4      |
| 0°-90°    | 602.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 602.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 409 |      |
| 5°  | 406 | 38   |
| 15° | 380 | 107  |
| 25° | 327 | 149  |
| 35° | 215 | 131  |
| 45° | 88  | 71   |
| 55° | 52  | 47   |
| 65° | 34  | 34   |
| 75° | 18  | 19   |
| 85° | 5   | 5    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 409.1 |
| 2.5°  | 406.9 |
| 5°    | 406.0 |
| 7.5°  | 402.1 |
| 10°   | 394.7 |
| 12.5° | 387.7 |
| 15°   | 380.2 |
| 17.5° | 370.3 |
| 20°   | 357.2 |
| 22.5° | 342.7 |
| 25°   | 326.7 |
| 27.5° | 307.9 |
| 30°   | 283.9 |
| 32.5° | 254.2 |
| 35°   | 214.6 |
| 37.5° | 171.4 |
| 40°   | 133.9 |
| 42.5° | 105.5 |
| 45°   | 88.1  |
| 47.5° | 76.3  |
| 50°   | 66.7  |
| 52.5° | 58.9  |
| 55°   | 51.9  |
| 57.5° | 47.1  |
| 60°   | 42.7  |
| 62.5° | 38.4  |
| 65°   | 34.0  |
| 67.5° | 29.6  |
| 70°   | 25.3  |
| 72.5° | 21.4  |
| 75°   | 17.9  |
| 77.5° | 14.4  |
| 80°   | 10.8  |
| 82.5° | 7.8   |
| 85°   | 4.7   |
| 87.5° | 2.1   |
| 90°   | 0.0   |

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— 0°-180°

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