

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: P581498

Luminaire Tested: **HCC4S07D010MB-HM40525930-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010MB-HM40525930-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 811.1 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

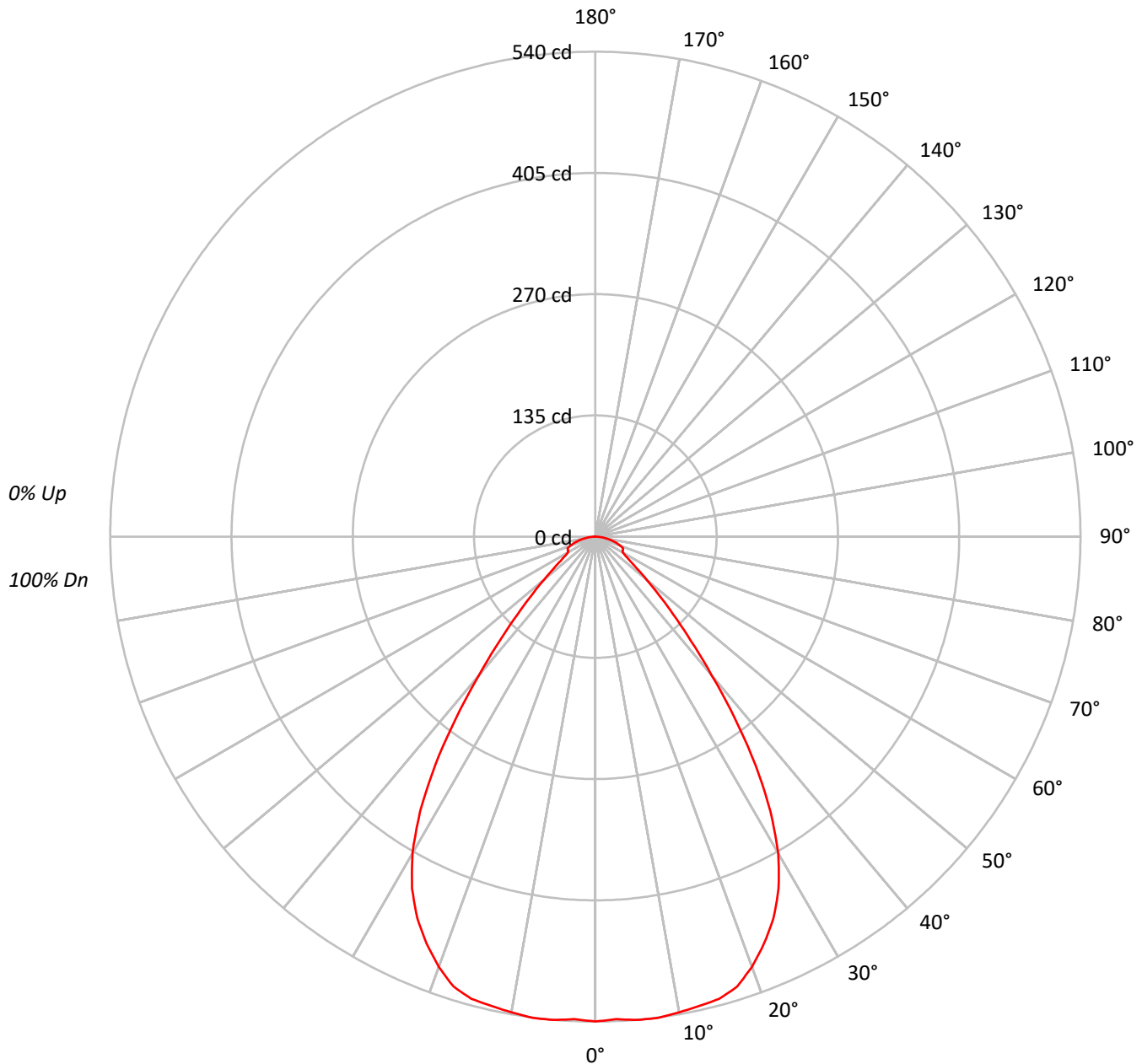
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  |
| 3   | 98  | 89  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  |  | 83  | 78  | 75  |  | 80  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 74  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  |
| 7   | 76  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 56  | 51  |  | 60  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  |
| 10  | 64  | 52  | 46  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 49  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 66594 |
| 5°  | 66898 |
| 10° | 67359 |
| 15° | 68037 |
| 20° | 66904 |
| 25° | 63829 |
| 30° | 57996 |
| 35° | 46784 |
| 40° | 32445 |
| 45° | 21299 |
| 50° | 14277 |
| 55° | 10150 |
| 60° | 8684  |
| 65° | 9952  |
| 70° | 10711 |
| 75° | 10294 |
| 80° | 9305  |
| 85° | 8491  |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.5   | 6.3       |
| 10°-20°   | 149.7  | 18.5      |
| 20°-30°   | 213.9  | 26.4      |
| 30°-40°   | 191.0  | 23.6      |
| 40°-50°   | 98.0   | 12.1      |
| 50°-60°   | 44.5   | 5.5       |
| 60°-70°   | 33.2   | 4.1       |
| 70°-80°   | 22.6   | 2.8       |
| 80°-90°   | 6.7    | 0.8       |
| 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°    | 415.0  | 51.2      |
| 0°-40°    | 606.1  | 74.7      |
| 0°-60°    | 748.6  | 92.3      |
| 0°-90°    | 811.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 811.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 540 |      |
| 5°  | 540 | 51   |
| 15° | 533 | 150  |
| 25° | 469 | 214  |
| 35° | 311 | 191  |
| 45° | 122 | 98   |
| 55° | 47  | 45   |
| 65° | 34  | 33   |
| 75° | 22  | 23   |
| 85° | 6   | 7    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 539.9 |
| 2.5°  | 537.8 |
| 5°    | 540.3 |
| 7.5°  | 540.3 |
| 10°   | 537.8 |
| 12.5° | 535.3 |
| 15°   | 532.8 |
| 17.5° | 525.3 |
| 20°   | 509.7 |
| 22.5° | 490.6 |
| 25°   | 469.0 |
| 27.5° | 441.8 |
| 30°   | 407.2 |
| 32.5° | 362.9 |
| 35°   | 310.7 |
| 37.5° | 254.8 |
| 40°   | 201.5 |
| 42.5° | 157.4 |
| 45°   | 122.1 |
| 47.5° | 95.5  |
| 50°   | 74.4  |
| 52.5° | 58.3  |
| 55°   | 47.2  |
| 57.5° | 39.7  |
| 60°   | 35.2  |
| 62.5° | 34.1  |
| 65°   | 34.1  |
| 67.5° | 33.2  |
| 70°   | 29.7  |
| 72.5° | 25.6  |
| 75°   | 21.6  |
| 77.5° | 17.1  |
| 80°   | 13.1  |
| 82.5° | 9.6   |
| 85°   | 6.0   |
| 87.5° | 2.5   |
| 90°   | 0.0   |

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## Scaled Data Report



— 0°-180°

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