

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: P584689

Luminaire Tested: **HCC8W45D010MW-HM82555835-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010MW-HM82555835-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5236.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

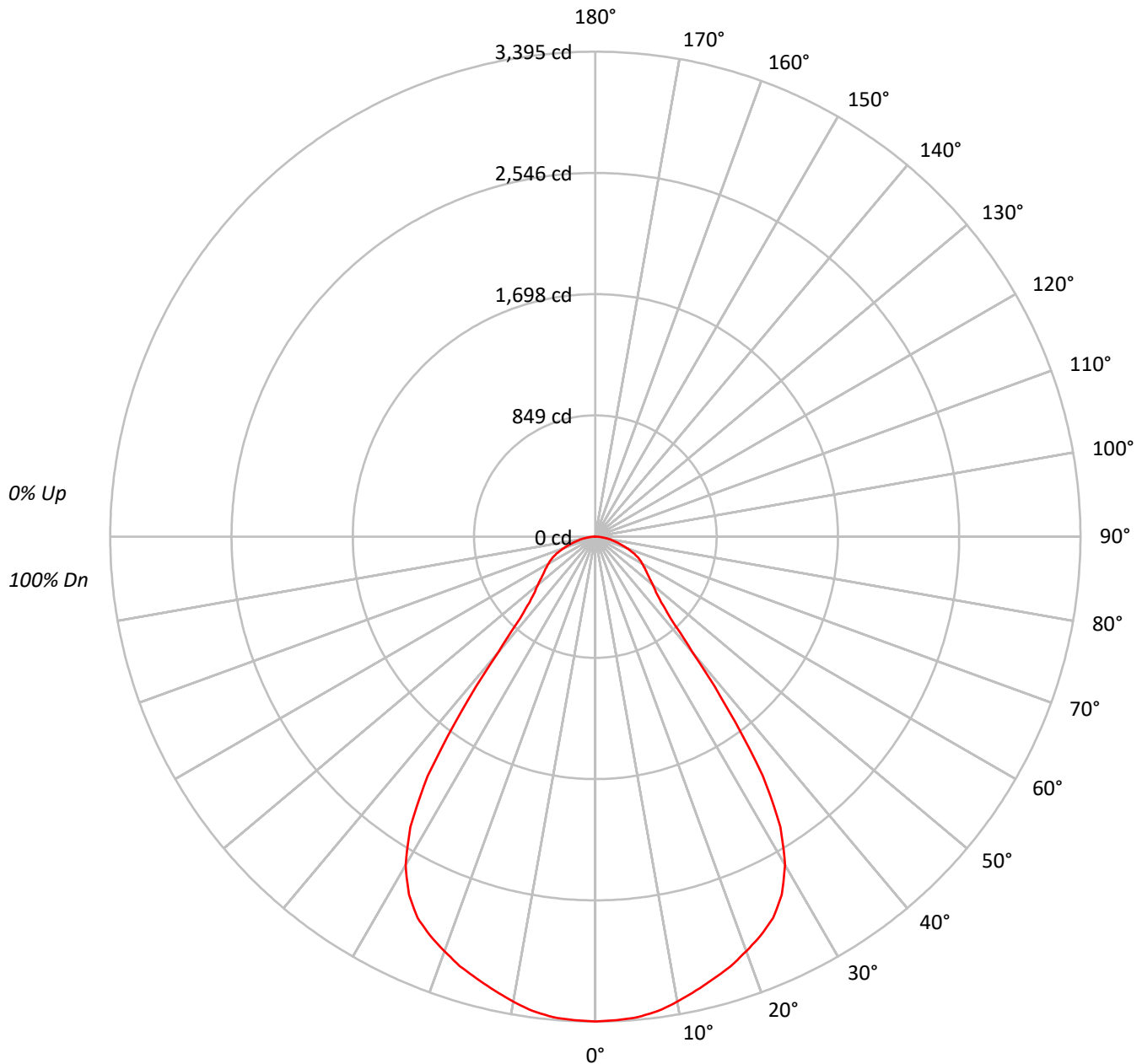
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  |  | 97  | 95  | 94  |  | 94  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  |  | 89  | 85  | 82  |  | 86  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  |  | 81  | 77  | 73  |  | 79  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 77  | 71  | 67  |  | 75  | 70  | 66  |  | 73  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  |  | 69  | 64  | 59  |  | 67  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  |  | 64  | 58  | 54  |  | 62  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  |  | 59  | 54  | 50  |  | 58  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  |  | 55  | 50  | 46  |  | 54  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  |  | 52  | 46  | 42  |  | 51  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  |  | 49  | 43  | 39  |  | 48  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 104680 |
| 5°  | 104554 |
| 10° | 103521 |
| 15° | 102278 |
| 20° | 101330 |
| 25° | 100194 |
| 30° | 94539  |
| 35° | 76982  |
| 40° | 42532  |
| 45° | 28390  |
| 50° | 25181  |
| 55° | 23634  |
| 60° | 23331  |
| 65° | 23123  |
| 70° | 20899  |
| 75° | 18682  |
| 80° | 16355  |
| 85° | 14471  |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 320.1  | 6.1       |
| 10°-20°   | 904.6  | 17.3      |
| 20°-30°   | 1344.2 | 25.7      |
| 30°-40°   | 1210.5 | 23.1      |
| 40°-50°   | 536.7  | 10.2      |
| 50°-60°   | 397.4  | 7.6       |
| 60°-70°   | 309.1  | 5.9       |
| 70°-80°   | 167.6  | 3.2       |
| 80°-90°   | 45.9   | 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°    | 2568.9 | 49.1      |
| 0°-40°    | 3779.4 | 72.2      |
| 0°-60°    | 4713.5 | 90.0      |
| 0°-90°    | 5236.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5236.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3395 |      |
| 5°  | 3378 | 320  |
| 15° | 3204 | 905  |
| 25° | 2945 | 1344 |
| 35° | 2045 | 1211 |
| 45° | 651  | 537  |
| 55° | 440  | 397  |
| 65° | 317  | 309  |
| 75° | 157  | 168  |
| 85° | 41   | 46   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3394.7 |
| 2.5°  | 3387.9 |
| 5°    | 3377.7 |
| 7.5°  | 3350.4 |
| 10°   | 3306.1 |
| 12.5° | 3255.0 |
| 15°   | 3203.8 |
| 17.5° | 3152.7 |
| 20°   | 3087.9 |
| 22.5° | 3023.2 |
| 25°   | 2944.8 |
| 27.5° | 2825.5 |
| 30°   | 2655.1 |
| 32.5° | 2409.7 |
| 35°   | 2045.0 |
| 37.5° | 1526.9 |
| 40°   | 1056.6 |
| 42.5° | 780.5  |
| 45°   | 651.0  |
| 47.5° | 576.1  |
| 50°   | 524.9  |
| 52.5° | 477.2  |
| 55°   | 439.6  |
| 57.5° | 409.0  |
| 60°   | 378.3  |
| 62.5° | 351.1  |
| 65°   | 316.9  |
| 67.5° | 276.1  |
| 70°   | 231.8  |
| 72.5° | 194.2  |
| 75°   | 156.8  |
| 77.5° | 122.7  |
| 80°   | 92.1   |
| 82.5° | 64.7   |
| 85°   | 40.9   |
| 87.5° | 17.0   |
| 90°   | 0.0    |

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## Scaled Data Report



— 0°-180°

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