

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: P584768

Luminaire Tested: **HCC8W45D010MW-HM82555940-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010MW-HM82555940-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5225.2 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

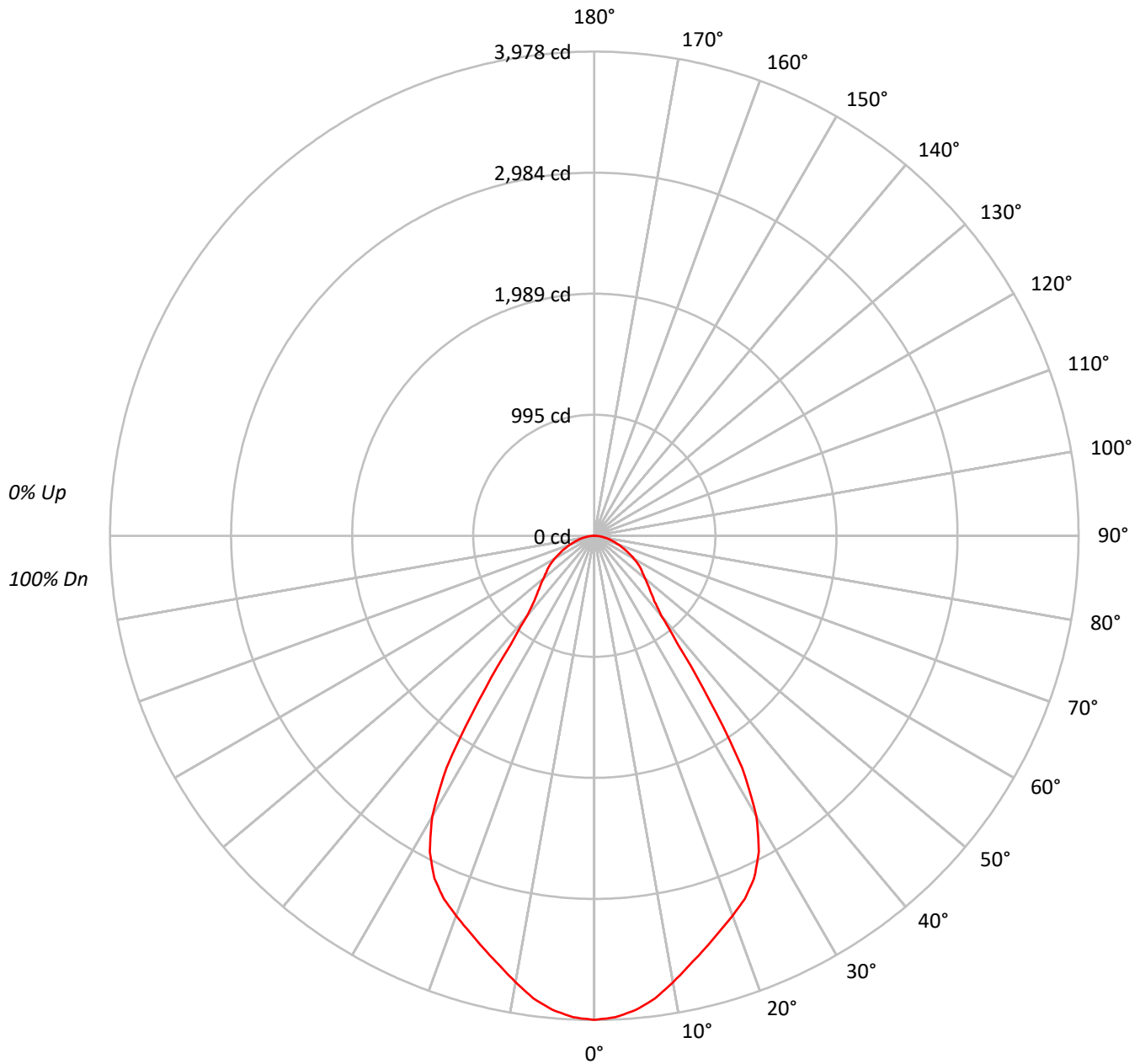
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



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



**COOPER**  
Lighting Solutions

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|     |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |  |     |    |    |   |   |     |  |  |  |  |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|----|----|---|---|-----|--|--|--|--|
| 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 |    |    |   |   | 100 |  |  |  |  |
| 1   | 111 | 108 | 105 | 102 |  | 109 | 106 | 103 | 100 |  | 101 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  |  | 89  |    |    |   |   | 89  |  |  |  |  |
| 2   | 104 | 98  | 92  | 88  |  | 102 | 96  | 91  | 87  |  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 86  | 84  | 81  |  | 79  |    |    |   |   | 79  |  |  |  |  |
| 3   | 97  | 89  | 83  | 77  |  | 95  | 87  | 82  | 77  |  | 85  | 80  | 76  |  | 82  | 78  | 74  |  | 80  | 76  | 73  |  | 71  |    |    |   |   | 71  |  |  |  |  |
| 4   | 91  | 81  | 74  | 69  |  | 89  | 80  | 74  | 69  |  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  |  | 64  |    |    |   |   | 64  |  |  |  |  |
| 5   | 85  | 75  | 68  | 62  |  | 83  | 74  | 67  | 62  |  | 72  | 66  | 61  |  | 70  | 65  | 61  |  | 68  | 64  | 60  |  | 58  |    |    |   |   | 58  |  |  |  |  |
| 6   | 80  | 69  | 62  | 57  |  | 78  | 68  | 61  | 56  |  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  |  | 53  |    |    |   |   | 53  |  |  |  |  |
| 7   | 75  | 64  | 57  | 52  |  | 74  | 63  | 57  | 52  |  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 60  | 55  | 51  |  | 49  |    |    |   |   | 49  |  |  |  |  |
| 8   | 71  | 60  | 53  | 48  |  | 70  | 59  | 52  | 48  |  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 45  |    |    |   |   | 45  |  |  |  |  |
| 9   | 67  | 56  | 49  | 44  |  | 66  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 44  |  | 42  |    |    |   |   | 42  |  |  |  |  |
| 10  | 64  | 52  | 46  | 41  |  | 62  | 52  | 45  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 49  | 44  | 41  |  | 39  |    |    |   |   | 39  |  |  |  |  |

|     | 0°     |
|-----|--------|
| 0°  | 122651 |
| 5°  | 121055 |
| 10° | 116622 |
| 15° | 112060 |
| 20° | 108960 |
| 25° | 105682 |
| 30° | 94835  |
| 35° | 62169  |
| 40° | 34369  |
| 45° | 28656  |
| 50° | 26126  |
| 55° | 24935  |
| 60° | 23183  |
| 65° | 21021  |
| 70° | 19006  |
| 75° | 17157  |
| 80° | 15609  |
| 85° | 14895  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 367.4  | 7.0       |
| 10°-20°   | 990.3  | 19.0      |
| 20°-30°   | 1409.4 | 27.0      |
| 30°-40°   | 1043.1 | 20.0      |
| 40°-50°   | 516.7  | 9.9       |
| 50°-60°   | 412.4  | 7.9       |
| 60°-70°   | 286.2  | 5.5       |
| 70°-80°   | 154.3  | 3.0       |
| 80°-90°   | 45.4   | 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°    | 2767.1 | 53.0      |
| 0°-40°    | 3810.3 | 72.9      |
| 0°-60°    | 4739.3 | 90.7      |
| 0°-90°    | 5225.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5225.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3978 |      |
| 5°  | 3911 | 367  |
| 15° | 3510 | 990  |
| 25° | 3106 | 1409 |
| 35° | 1652 | 1043 |
| 45° | 657  | 517  |
| 55° | 464  | 412  |
| 65° | 288  | 286  |
| 75° | 144  | 154  |
| 85° | 42   | 45   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3977.5 |
| 2.5°  | 3959.9 |
| 5°    | 3910.8 |
| 7.5°  | 3833.5 |
| 10°   | 3724.5 |
| 12.5° | 3612.0 |
| 15°   | 3510.2 |
| 17.5° | 3411.8 |
| 20°   | 3320.4 |
| 22.5° | 3229.0 |
| 25°   | 3106.1 |
| 27.5° | 2926.9 |
| 30°   | 2663.4 |
| 32.5° | 2259.3 |
| 35°   | 1651.5 |
| 37.5° | 1127.8 |
| 40°   | 853.8  |
| 42.5° | 730.9  |
| 45°   | 657.1  |
| 47.5° | 597.3  |
| 50°   | 544.6  |
| 52.5° | 499.0  |
| 55°   | 463.8  |
| 57.5° | 421.7  |
| 60°   | 375.9  |
| 62.5° | 330.3  |
| 65°   | 288.1  |
| 67.5° | 246.0  |
| 70°   | 210.8  |
| 72.5° | 175.7  |
| 75°   | 144.0  |
| 77.5° | 116.0  |
| 80°   | 87.9   |
| 82.5° | 63.2   |
| 85°   | 42.1   |
| 87.5° | 17.6   |
| 90°   | 0.0    |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Peachtree City, GA 30269

Scaled Data Report



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## Scaled Data Report



— 0°-180°

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Scaled Data Report



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