

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: P584683

Luminaire Tested: **HCC8W45D010SL-HM82555835-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584683  
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: HCC8W45D010SL-HM82555835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5069.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

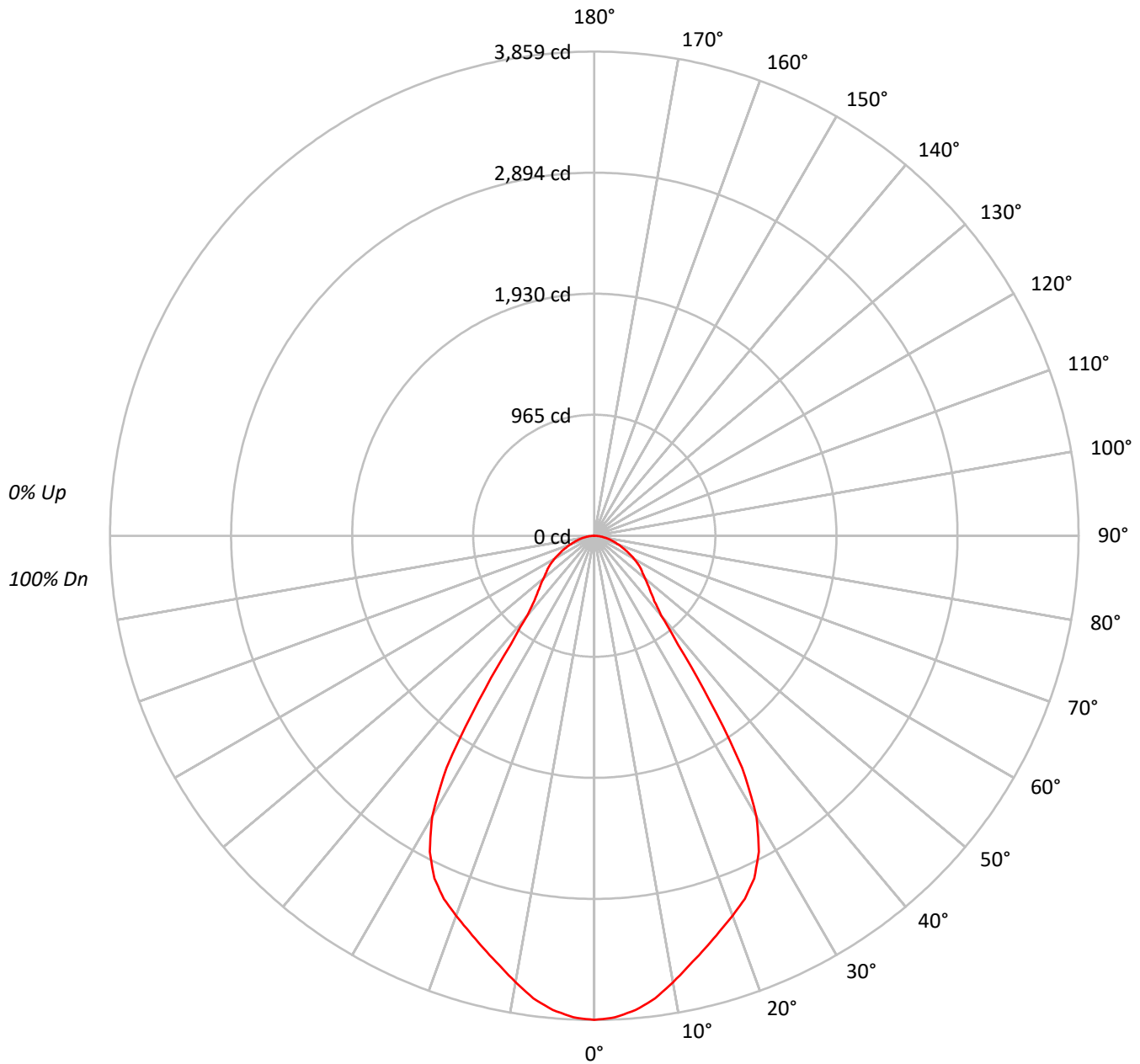
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 108 | 105 | 102 |  | 109 | 106 | 103 | 100 |  | 101 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  |
| 2   | 104 | 98  | 92  | 88  |  | 102 | 96  | 91  | 87  |  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 86  | 84  | 81  |
| 3   | 97  | 89  | 83  | 77  |  | 95  | 87  | 82  | 77  |  | 85  | 80  | 76  |  | 82  | 78  | 74  |  | 80  | 76  | 73  |
| 4   | 91  | 81  | 74  | 69  |  | 89  | 80  | 74  | 69  |  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  |
| 5   | 85  | 75  | 68  | 62  |  | 83  | 74  | 67  | 62  |  | 72  | 66  | 61  |  | 70  | 65  | 61  |  | 68  | 64  | 60  |
| 6   | 80  | 69  | 62  | 57  |  | 78  | 68  | 61  | 56  |  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  |
| 7   | 75  | 64  | 57  | 52  |  | 74  | 63  | 57  | 52  |  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 60  | 55  | 51  |
| 8   | 71  | 60  | 53  | 48  |  | 70  | 59  | 52  | 48  |  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 47  |
| 9   | 67  | 56  | 49  | 44  |  | 66  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 44  |
| 10  | 64  | 52  | 46  | 41  |  | 62  | 52  | 45  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 49  | 44  | 41  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 118985 |
| 5°  | 117434 |
| 10° | 113137 |
| 15° | 108708 |
| 20° | 105705 |
| 25° | 102525 |
| 30° | 92001  |
| 35° | 60310  |
| 40° | 33342  |
| 45° | 27796  |
| 50° | 25344  |
| 55° | 24193  |
| 60° | 22492  |
| 65° | 20394  |
| 70° | 18447  |
| 75° | 16644  |
| 80° | 15130  |
| 85° | 14471  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 356.5  | 7.0       |
| 10°-20°   | 960.7  | 19.0      |
| 20°-30°   | 1367.3 | 27.0      |
| 30°-40°   | 1012.0 | 20.0      |
| 40°-50°   | 501.2  | 9.9       |
| 50°-60°   | 400.0  | 7.9       |
| 60°-70°   | 277.7  | 5.5       |
| 70°-80°   | 149.6  | 3.0       |
| 80°-90°   | 44.0   | 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°    | 2684.5 | 53.0      |
| 0°-40°    | 3696.4 | 72.9      |
| 0°-60°    | 4597.6 | 90.7      |
| 0°-90°    | 5069.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5069.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3859 |      |
| 5°  | 3794 | 356  |
| 15° | 3405 | 961  |
| 25° | 3013 | 1367 |
| 35° | 1602 | 1012 |
| 45° | 637  | 501  |
| 55° | 450  | 400  |
| 65° | 280  | 278  |
| 75° | 140  | 150  |
| 85° | 41   | 44   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3858.6 |
| 2.5°  | 3841.6 |
| 5°    | 3793.8 |
| 7.5°  | 3718.9 |
| 10°   | 3613.2 |
| 12.5° | 3504.1 |
| 15°   | 3405.2 |
| 17.5° | 3309.9 |
| 20°   | 3221.2 |
| 22.5° | 3132.6 |
| 25°   | 3013.3 |
| 27.5° | 2839.5 |
| 30°   | 2583.8 |
| 32.5° | 2191.8 |
| 35°   | 1602.1 |
| 37.5° | 1094.2 |
| 40°   | 828.3  |
| 42.5° | 709.0  |
| 45°   | 637.4  |
| 47.5° | 579.5  |
| 50°   | 528.3  |
| 52.5° | 484.0  |
| 55°   | 450.0  |
| 57.5° | 409.0  |
| 60°   | 364.7  |
| 62.5° | 320.5  |
| 65°   | 279.5  |
| 67.5° | 238.6  |
| 70°   | 204.6  |
| 72.5° | 170.4  |
| 75°   | 139.7  |
| 77.5° | 112.5  |
| 80°   | 85.2   |
| 82.5° | 61.3   |
| 85°   | 40.9   |
| 87.5° | 17.0   |
| 90°   | 0.0    |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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## Scaled Data Report



— 0°-180°

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Scaled Data Report



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