

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: P584690

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010SL-HM82555835-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5614.5 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

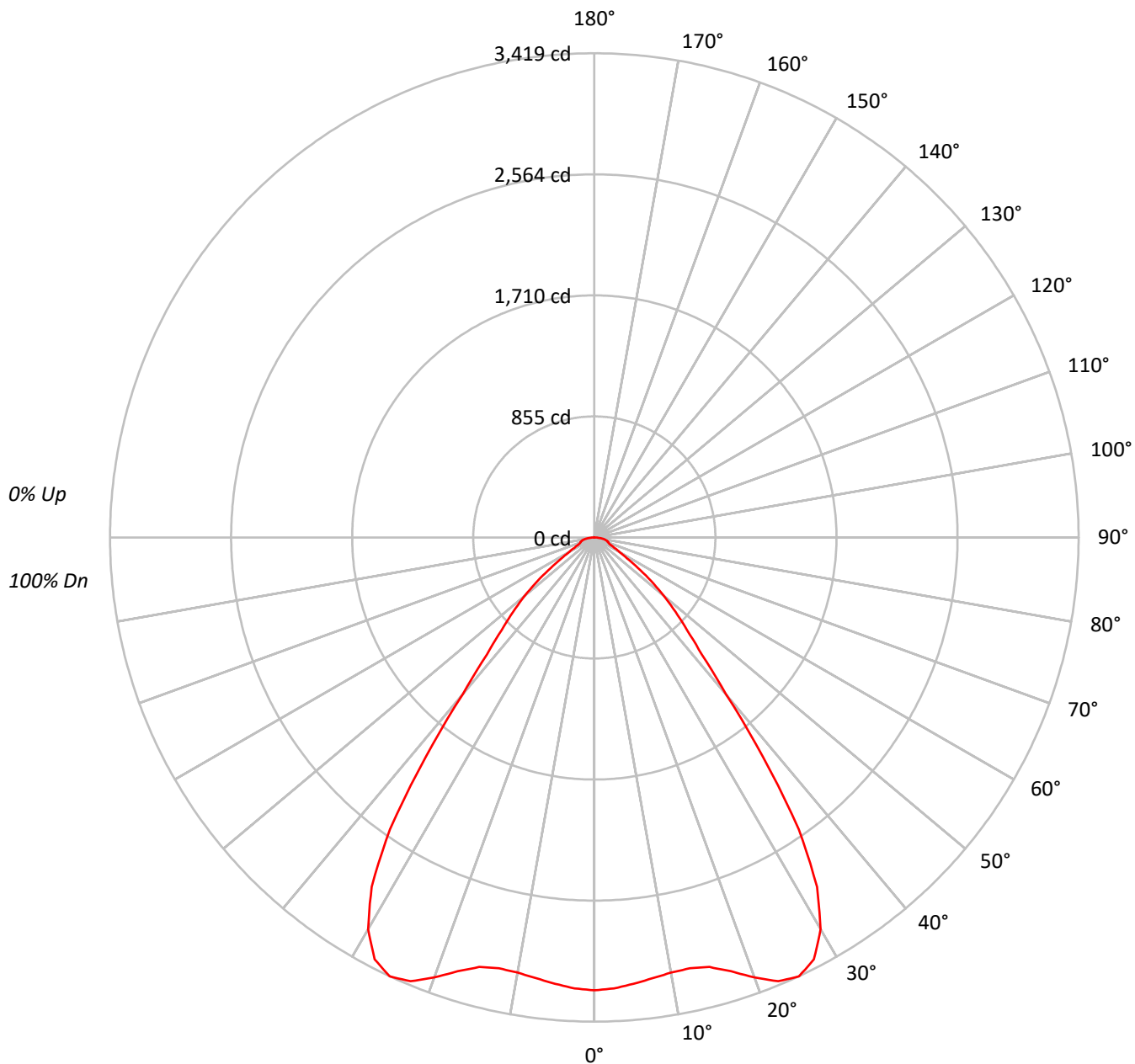
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 93  | 90  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |    |    |   |  |  |  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |   |  |  |  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |   |  |  |  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |   |  |  |  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |   |  |  |  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 55  | 51  | 49  |    |    |   |  |  |  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |    |    |   |  |  |  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |   |  |  |  |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 48  | 43  | 40  | 38  |    |    |   |  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 98602  |
| 5°  | 97926  |
| 10° | 97668  |
| 15° | 100232 |
| 20° | 108510 |
| 25° | 116335 |
| 30° | 113735 |
| 35° | 94709  |
| 40° | 58183  |
| 45° | 40290  |
| 50° | 30746  |
| 55° | 20161  |
| 60° | 12618  |
| 65° | 9449   |
| 70° | 9530   |
| 75° | 10973  |
| 80° | 12111  |
| 85° | 10862  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 300.6  | 5.4       |
| 10°-20°   | 901.3  | 16.1      |
| 20°-30°   | 1551.6 | 27.6      |
| 30°-40°   | 1503.3 | 26.8      |
| 40°-50°   | 740.4  | 13.2      |
| 50°-60°   | 349.4  | 6.2       |
| 60°-70°   | 137.7  | 2.5       |
| 70°-80°   | 95.0   | 1.7       |
| 80°-90°   | 35.2   | 0.6       |
| 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°    | 2753.5 | 49.0      |
| 0°-40°    | 4256.7 | 75.8      |
| 0°-60°    | 5346.5 | 95.2      |
| 0°-90°    | 5614.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5614.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3198 |      |
| 5°  | 3164 | 301  |
| 15° | 3140 | 901  |
| 25° | 3419 | 1552 |
| 35° | 2516 | 1503 |
| 45° | 924  | 740  |
| 55° | 375  | 349  |
| 65° | 130  | 138  |
| 75° | 92   | 95   |
| 85° | 31   | 35   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3197.6 |
| 2.5°  | 3187.4 |
| 5°    | 3163.6 |
| 7.5°  | 3139.7 |
| 10°   | 3119.2 |
| 12.5° | 3115.8 |
| 15°   | 3139.7 |
| 17.5° | 3211.2 |
| 20°   | 3306.7 |
| 22.5° | 3392.0 |
| 25°   | 3419.2 |
| 27.5° | 3357.8 |
| 30°   | 3194.2 |
| 32.5° | 2924.9 |
| 35°   | 2515.9 |
| 37.5° | 1953.4 |
| 40°   | 1445.4 |
| 42.5° | 1121.5 |
| 45°   | 923.9  |
| 47.5° | 777.2  |
| 50°   | 640.9  |
| 52.5° | 504.5  |
| 55°   | 375.0  |
| 57.5° | 272.7  |
| 60°   | 204.6  |
| 62.5° | 160.2  |
| 65°   | 129.5  |
| 67.5° | 112.5  |
| 70°   | 105.7  |
| 72.5° | 98.9   |
| 75°   | 92.1   |
| 77.5° | 81.8   |
| 80°   | 68.2   |
| 82.5° | 51.1   |
| 85°   | 30.7   |
| 87.5° | 13.6   |
| 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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