

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



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: P581542

Luminaire Tested: **HCC4W07D010BZ-HM40525940-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W07D010BZ-HM40525940-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

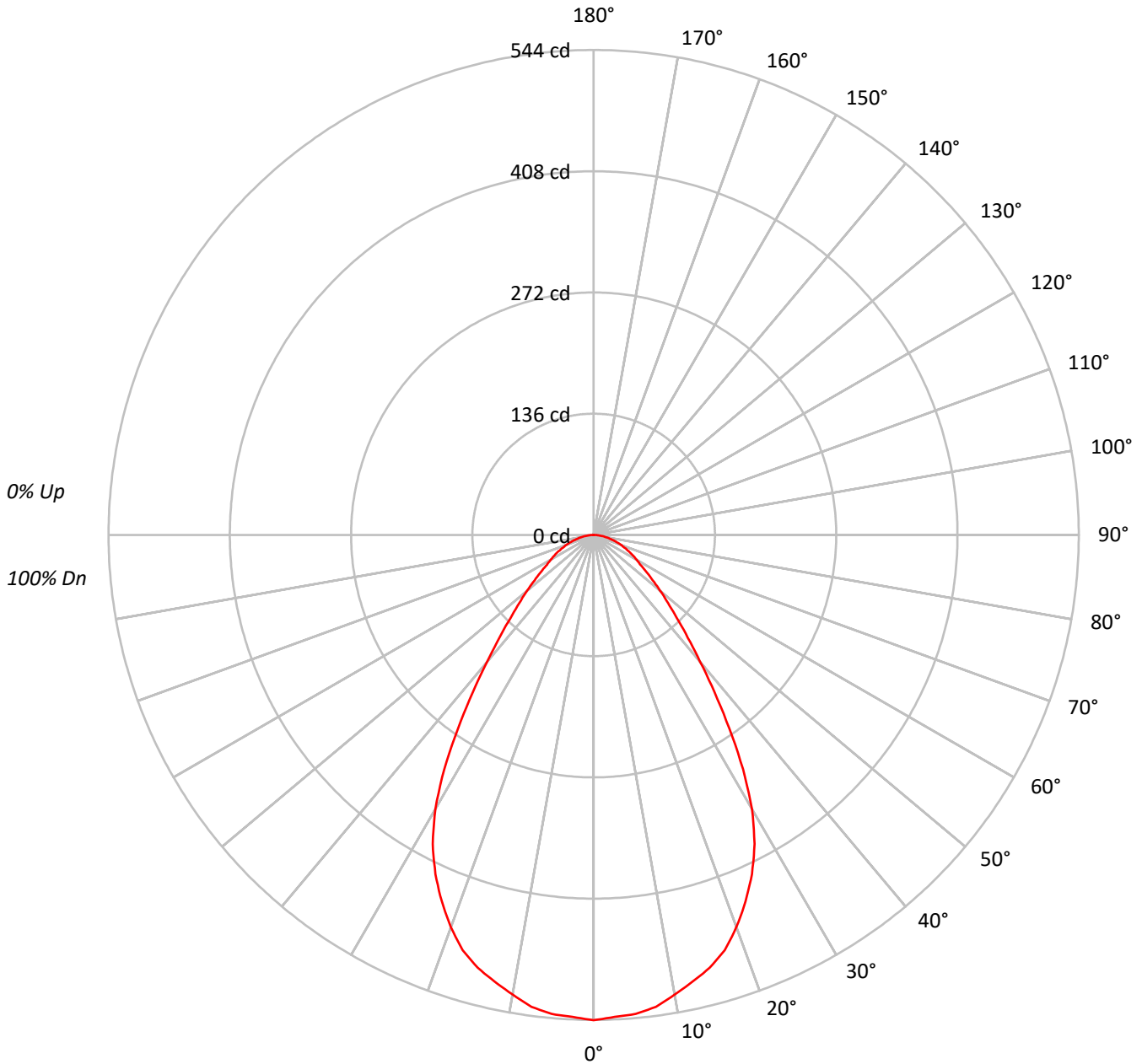
Lumens per Lamp: N/A  
Luminaire Lumens: 792.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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





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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 63  | 59  | 57  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 45  | 54  | 49  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 67149 |
| 5°  | 66787 |
| 10° | 65580 |
| 15° | 64193 |
| 20° | 61457 |
| 25° | 57133 |
| 30° | 50576 |
| 35° | 39903 |
| 40° | 29869 |
| 45° | 22973 |
| 50° | 18652 |
| 55° | 15462 |
| 60° | 13667 |
| 65° | 12667 |
| 70° | 11685 |
| 75° | 10723 |
| 80° | 9802  |
| 85° | 7784  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.0   | 6.4       |
| 10°-20°   | 141.0  | 17.8      |
| 20°-30°   | 191.4  | 24.2      |
| 30°-40°   | 165.8  | 20.9      |
| 40°-50°   | 104.1  | 13.1      |
| 50°-60°   | 65.5   | 8.3       |
| 60°-70°   | 43.0   | 5.4       |
| 70°-80°   | 23.7   | 3.0       |
| 80°-90°   | 6.5    | 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°    | 383.4  | 48.4      |
| 0°-40°    | 549.2  | 69.3      |
| 0°-60°    | 718.8  | 90.8      |
| 0°-90°    | 792.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 792.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 544 |      |
| 5°  | 539 | 51   |
| 15° | 503 | 141  |
| 25° | 420 | 191  |
| 35° | 265 | 166  |
| 45° | 132 | 104  |
| 55° | 72  | 65   |
| 65° | 43  | 43   |
| 75° | 22  | 24   |
| 85° | 6   | 7    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 544.4 |
| 2.5°  | 541.1 |
| 5°    | 539.4 |
| 7.5°  | 533.9 |
| 10°   | 523.6 |
| 12.5° | 513.1 |
| 15°   | 502.7 |
| 17.5° | 488.4 |
| 20°   | 468.2 |
| 22.5° | 445.1 |
| 25°   | 419.8 |
| 27.5° | 390.8 |
| 30°   | 355.1 |
| 32.5° | 311.7 |
| 35°   | 265.0 |
| 37.5° | 222.3 |
| 40°   | 185.5 |
| 42.5° | 156.4 |
| 45°   | 131.7 |
| 47.5° | 113.0 |
| 50°   | 97.2  |
| 52.5° | 83.4  |
| 55°   | 71.9  |
| 57.5° | 62.0  |
| 60°   | 55.4  |
| 62.5° | 49.4  |
| 65°   | 43.4  |
| 67.5° | 37.3  |
| 70°   | 32.4  |
| 72.5° | 26.9  |
| 75°   | 22.5  |
| 77.5° | 17.5  |
| 80°   | 13.8  |
| 82.5° | 9.3   |
| 85°   | 5.5   |
| 87.5° | 2.2   |
| 90°   | 0.0   |

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— 0°-180°

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