

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: P584530

Luminaire Tested: **HCC8W40D010MB-HM82555830-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584530  
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: HCC8W40D010MB-HM82555830-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

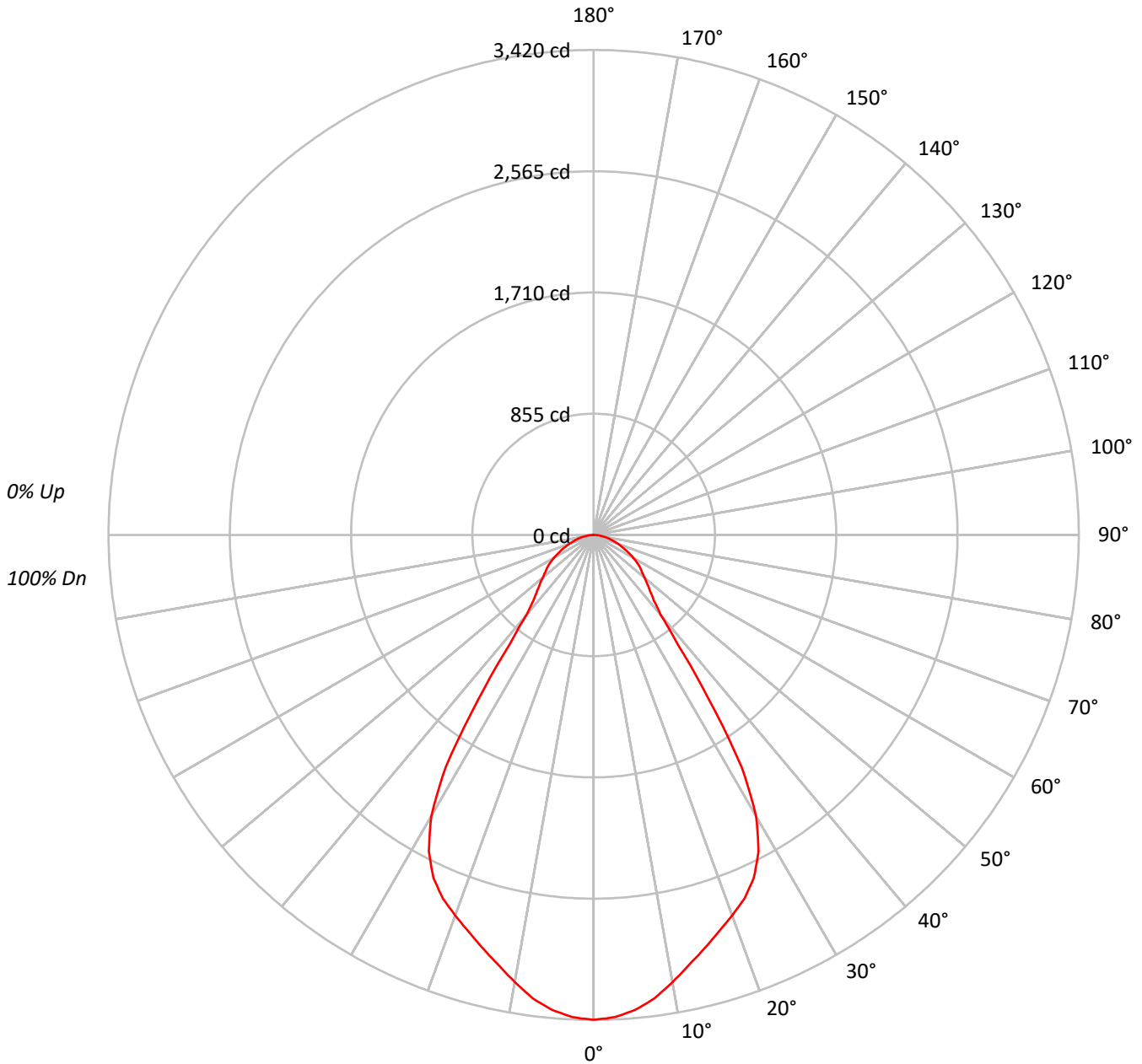
Lumens per Lamp: N/A  
Luminaire Lumens: 4492.3 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 105448 |
| 5°  | 104071 |
| 10° | 100264 |
| 15° | 96341  |
| 20° | 93678  |
| 25° | 90858  |
| 30° | 81532  |
| 35° | 53447  |
| 40° | 29550  |
| 45° | 24635  |
| 50° | 22466  |
| 55° | 21440  |
| 60° | 19933  |
| 65° | 18081  |
| 70° | 16337  |
| 75° | 14762  |
| 80° | 13425  |
| 85° | 12843  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 315.9  | 7.0       |
| 10°-20°   | 851.4  | 19.0      |
| 20°-30°   | 1211.7 | 27.0      |
| 30°-40°   | 896.8  | 20.0      |
| 40°-50°   | 444.2  | 9.9       |
| 50°-60°   | 354.5  | 7.9       |
| 60°-70°   | 246.1  | 5.5       |
| 70°-80°   | 132.6  | 3.0       |
| 80°-90°   | 39.1   | 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°    | 2379.0 | 53.0      |
| 0°-40°    | 3275.8 | 72.9      |
| 0°-60°    | 4074.5 | 90.7      |
| 0°-90°    | 4492.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4492.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3420 |      |
| 5°  | 3362 | 316  |
| 15° | 3018 | 851  |
| 25° | 2670 | 1212 |
| 35° | 1420 | 897  |
| 45° | 565  | 444  |
| 55° | 399  | 355  |
| 65° | 248  | 246  |
| 75° | 124  | 133  |
| 85° | 36   | 39   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3419.6 |
| 2.5°  | 3404.5 |
| 5°    | 3362.1 |
| 7.5°  | 3295.7 |
| 10°   | 3202.1 |
| 12.5° | 3105.4 |
| 15°   | 3017.8 |
| 17.5° | 2933.2 |
| 20°   | 2854.7 |
| 22.5° | 2776.2 |
| 25°   | 2670.4 |
| 27.5° | 2516.4 |
| 30°   | 2289.8 |
| 32.5° | 1942.4 |
| 35°   | 1419.8 |
| 37.5° | 969.7  |
| 40°   | 734.1  |
| 42.5° | 628.3  |
| 45°   | 564.9  |
| 47.5° | 513.5  |
| 50°   | 468.3  |
| 52.5° | 429.0  |
| 55°   | 398.8  |
| 57.5° | 362.5  |
| 60°   | 323.2  |
| 62.5° | 283.9  |
| 65°   | 247.8  |
| 67.5° | 211.5  |
| 70°   | 181.2  |
| 72.5° | 151.0  |
| 75°   | 123.9  |
| 77.5° | 99.7   |
| 80°   | 75.6   |
| 82.5° | 54.4   |
| 85°   | 36.3   |
| 87.5° | 15.1   |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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