

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: P584638

Luminaire Tested: **HCC8S40D010MB-HM82555940-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010MB-HM82555940-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

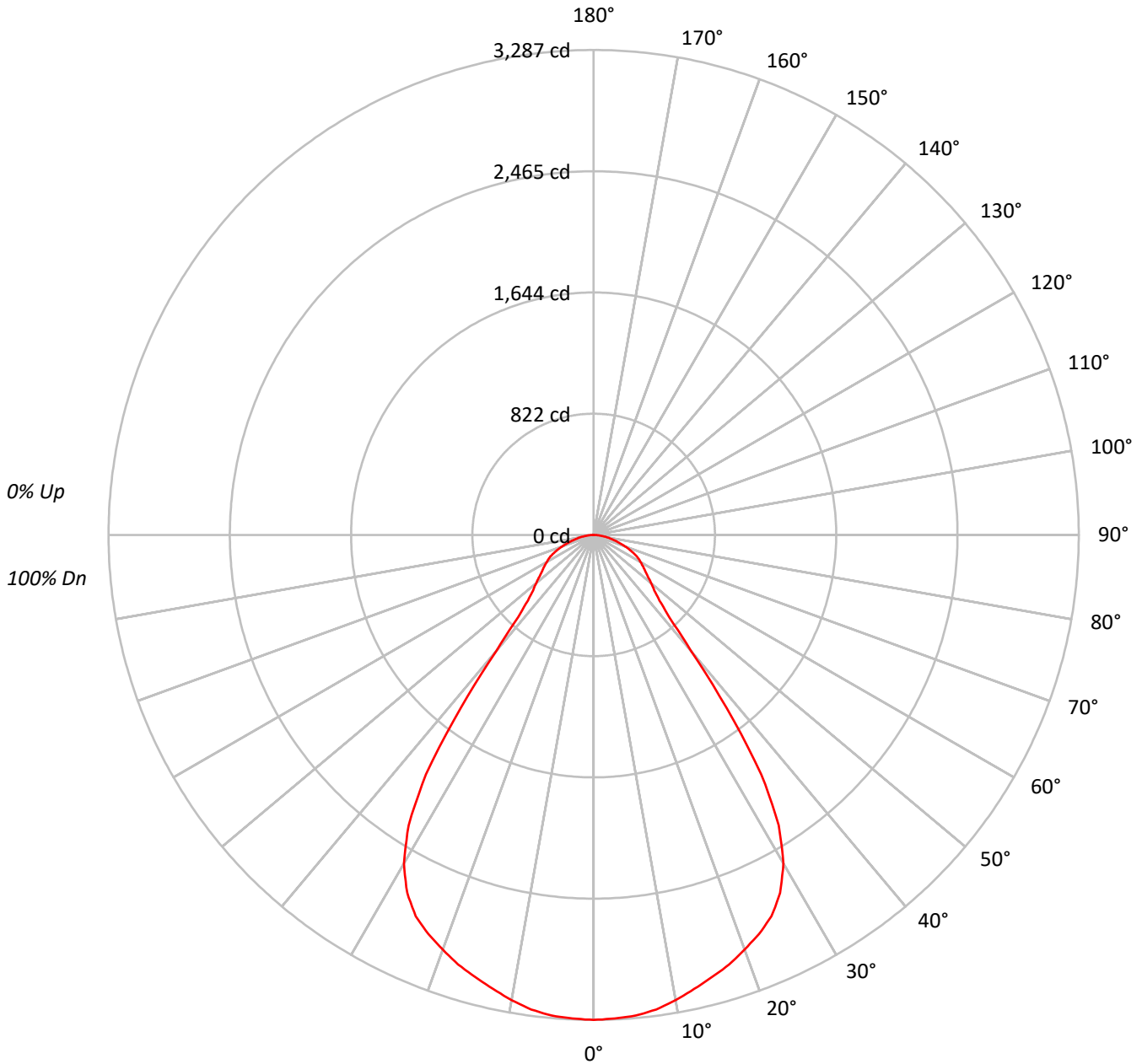
Lumens per Lamp: N/A  
Luminaire Lumens: 5070.3 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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 | 100 | 100 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  | 79  | 79  | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  | 70  | 70  | 70  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  | 63  | 63  | 63  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 63  | 59  | 57  | 57  | 57  | 57  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 58  | 54  | 62  | 58  | 54  | 52  | 52  | 52  | 52  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  | 48  | 48  | 48  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  | 44  | 44  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  | 40  | 40  | 40  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  | 37  | 37  | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 101368 |
| 5°  | 101242 |
| 10° | 100245 |
| 15° | 99041  |
| 20° | 98124  |
| 25° | 97023  |
| 30° | 91545  |
| 35° | 74547  |
| 40° | 41188  |
| 45° | 27487  |
| 50° | 24380  |
| 55° | 22892  |
| 60° | 22597  |
| 65° | 22393  |
| 70° | 20232  |
| 75° | 18086  |
| 80° | 15822  |
| 85° | 14011  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 310.0  | 6.1       |
| 10°-20°   | 876.0  | 17.3      |
| 20°-30°   | 1301.6 | 25.7      |
| 30°-40°   | 1172.2 | 23.1      |
| 40°-50°   | 519.6  | 10.2      |
| 50°-60°   | 384.9  | 7.6       |
| 60°-70°   | 299.3  | 5.9       |
| 70°-80°   | 162.2  | 3.2       |
| 80°-90°   | 44.4   | 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°    | 2487.6 | 49.1      |
| 0°-40°    | 3659.8 | 72.2      |
| 0°-60°    | 4564.3 | 90.0      |
| 0°-90°    | 5070.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5070.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3287 |      |
| 5°  | 3271 | 310  |
| 15° | 3102 | 876  |
| 25° | 2852 | 1302 |
| 35° | 1980 | 1172 |
| 45° | 630  | 520  |
| 55° | 426  | 385  |
| 65° | 307  | 299  |
| 75° | 152  | 162  |
| 85° | 40   | 44   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3287.3 |
| 2.5°  | 3280.6 |
| 5°    | 3270.7 |
| 7.5°  | 3244.3 |
| 10°   | 3201.5 |
| 12.5° | 3152.0 |
| 15°   | 3102.4 |
| 17.5° | 3052.9 |
| 20°   | 2990.2 |
| 22.5° | 2927.5 |
| 25°   | 2851.6 |
| 27.5° | 2736.0 |
| 30°   | 2571.0 |
| 32.5° | 2333.4 |
| 35°   | 1980.3 |
| 37.5° | 1478.6 |
| 40°   | 1023.2 |
| 42.5° | 755.8  |
| 45°   | 630.3  |
| 47.5° | 557.8  |
| 50°   | 508.2  |
| 52.5° | 462.1  |
| 55°   | 425.8  |
| 57.5° | 396.0  |
| 60°   | 366.4  |
| 62.5° | 340.0  |
| 65°   | 306.9  |
| 67.5° | 267.4  |
| 70°   | 224.4  |
| 72.5° | 188.1  |
| 75°   | 151.8  |
| 77.5° | 118.8  |
| 80°   | 89.1   |
| 82.5° | 62.7   |
| 85°   | 39.6   |
| 87.5° | 16.5   |
| 90°   | 0.0    |

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— 0°-180°

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