

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: P582595

Luminaire Tested: **HCC6W45D010MW-HM64560835-61MDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010MW-HM64560835-61MDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

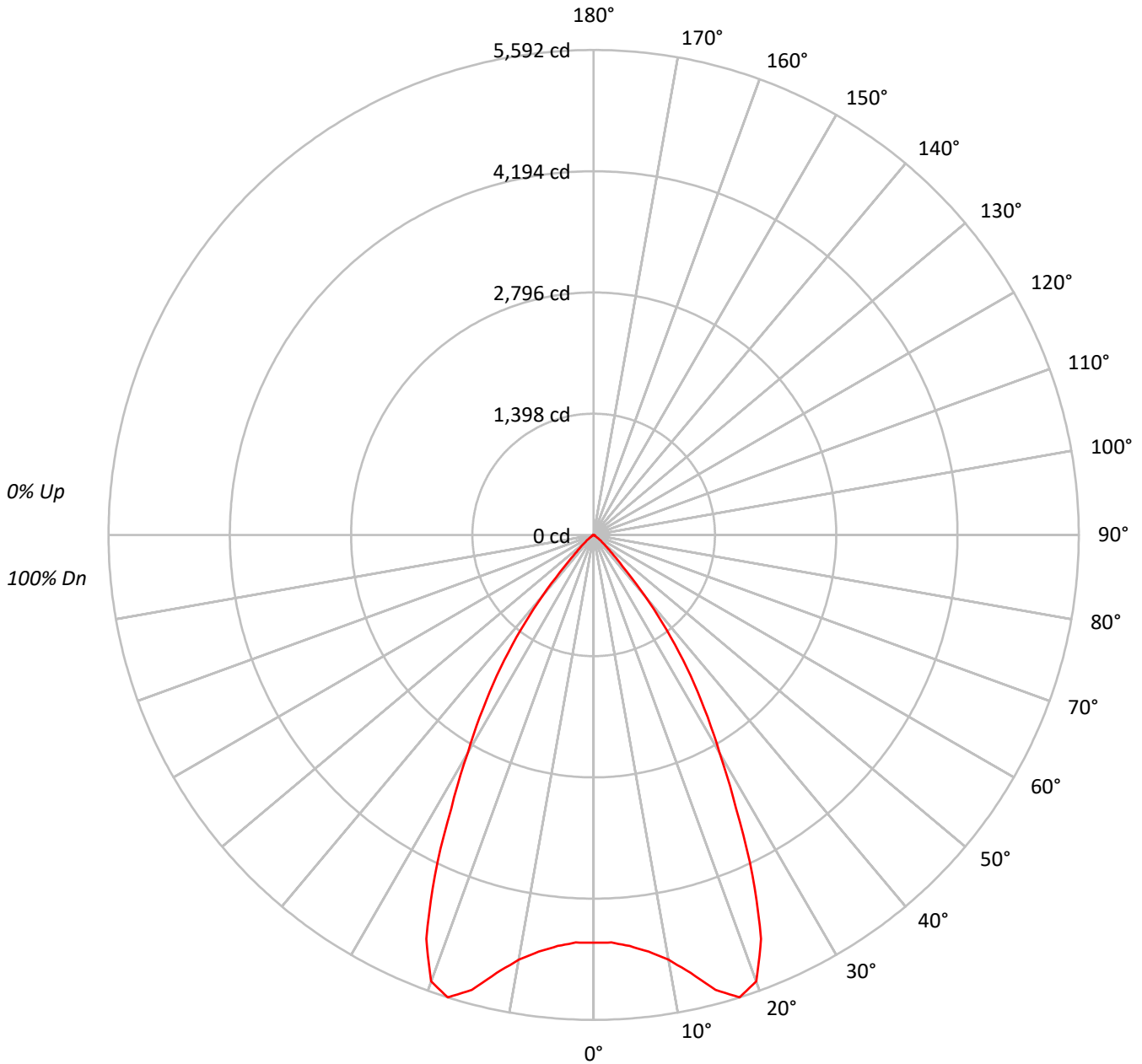
Lumens per Lamp: N/A  
Luminaire Lumens: 5429.3 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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





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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   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 92  | 90  | 89  | 87  |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  | 81  |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 79  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 79  | 77  | 75  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 73  | 81  | 76  | 73  | 80  | 75  | 72  | 78  | 74  | 72  | 70  |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 63  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 62  | 61  |
| 8   | 79  | 70  | 63  | 59  | 78  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 57  |
| 9   | 75  | 66  | 60  | 56  | 74  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 54  |
| 10  | 72  | 62  | 56  | 52  | 71  | 61  | 56  | 52  | 61  | 55  | 52  | 60  | 55  | 52  | 59  | 55  | 52  | 50  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 257825 |
| 5°  | 261847 |
| 10° | 276760 |
| 15° | 308157 |
| 20° | 319572 |
| 25° | 262201 |
| 30° | 183731 |
| 35° | 125347 |
| 40° | 65294  |
| 45° | 22956  |
| 50° | 10277  |
| 55° | 3297   |
| 60° | 1886   |
| 65° | 1336   |
| 70° | 1106   |
| 75° | 720    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 460.9  | 8.5       |
| 10°-20°   | 1527.0 | 28.1      |
| 20°-30°   | 1944.3 | 35.8      |
| 30°-40°   | 1158.8 | 21.3      |
| 40°-50°   | 281.0  | 5.2       |
| 50°-60°   | 43.1   | 0.8       |
| 60°-70°   | 10.6   | 0.2       |
| 70°-80°   | 3.6    | 0.1       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 3932.3 | 72.4      |
| 0°-40°    | 5091.1 | 93.8      |
| 0°-60°    | 5415.2 | 99.7      |
| 0°-90°    | 5429.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5429.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4703 |      |
| 5°  | 4758 | 461  |
| 15° | 5430 | 1527 |
| 25° | 4335 | 1944 |
| 35° | 1873 | 1159 |
| 45° | 296  | 281  |
| 55° | 34   | 43   |
| 65° | 10   | 11   |
| 75° | 3    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4703.1 |
| 2.5°  | 4703.1 |
| 5°    | 4758.3 |
| 7.5°  | 4844.4 |
| 10°   | 4971.8 |
| 12.5° | 5171.4 |
| 15°   | 5429.7 |
| 17.5° | 5591.5 |
| 20°   | 5477.9 |
| 22.5° | 5040.6 |
| 25°   | 4334.8 |
| 27.5° | 3556.7 |
| 30°   | 2902.5 |
| 32.5° | 2372.3 |
| 35°   | 1873.0 |
| 37.5° | 1380.6 |
| 40°   | 912.4  |
| 42.5° | 492.3  |
| 45°   | 296.1  |
| 47.5° | 185.9  |
| 50°   | 120.5  |
| 52.5° | 72.3   |
| 55°   | 34.5   |
| 57.5° | 20.6   |
| 60°   | 17.2   |
| 62.5° | 13.7   |
| 65°   | 10.3   |
| 67.5° | 6.9    |
| 70°   | 6.9    |
| 72.5° | 3.4    |
| 75°   | 3.4    |
| 77.5° | 3.4    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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