

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: P580979

Luminaire Tested: **HCC4W05D010MB-HM40525827-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010MB-HM40525827-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

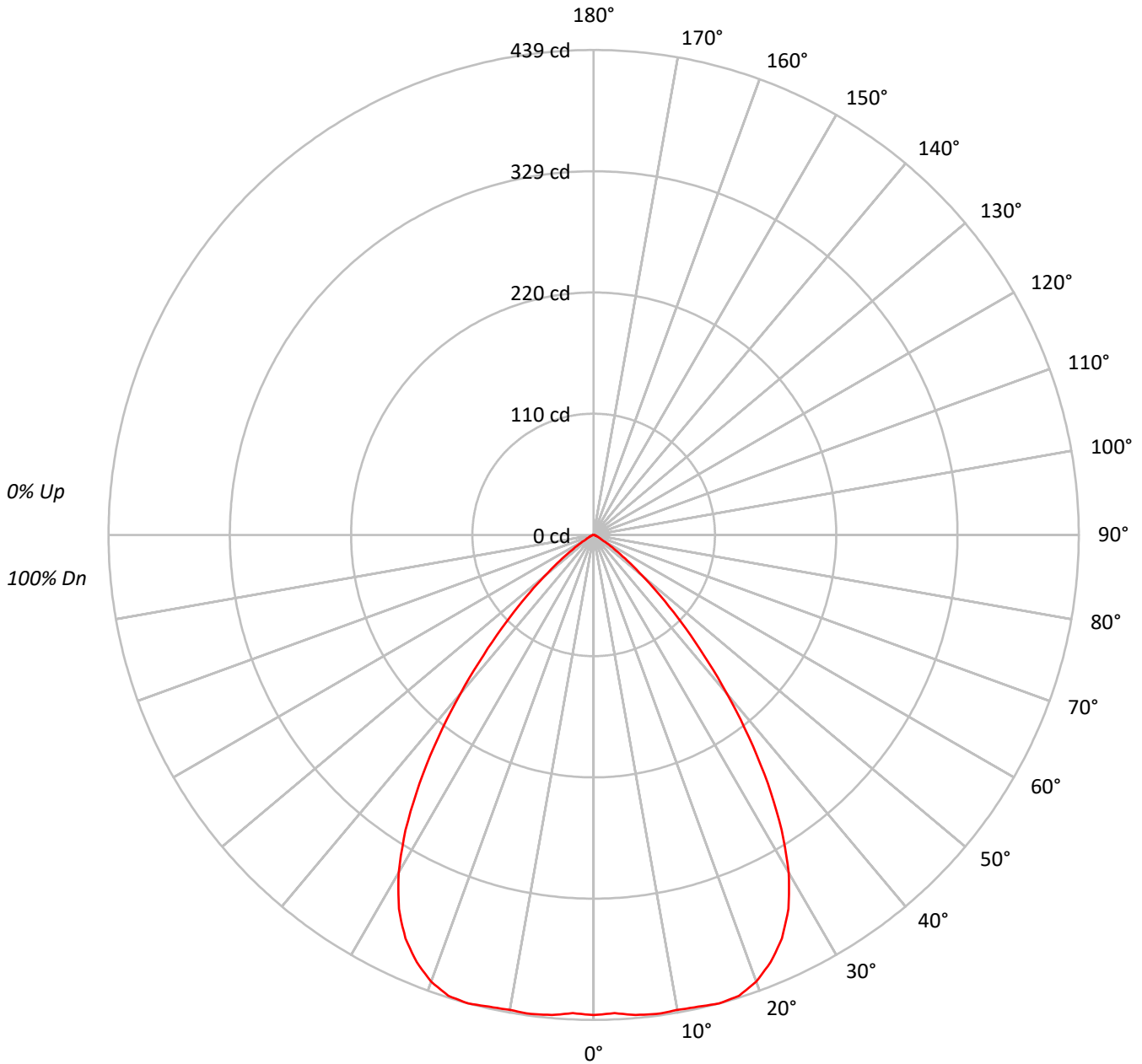
Lumens per Lamp: N/A  
Luminaire Lumens: 637.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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   | 113 | 110 | 107 | 104 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 82  | 98  | 91  | 86  | 82  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 75  | 72  | 78  | 74  | 71  | 69  |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 66  | 72  | 68  | 65  | 63  |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  |
| 8   | 74  | 63  | 56  | 51  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |
| 9   | 69  | 59  | 52  | 47  | 68  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 43  | 42  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 53606 |
| 5°  | 54009 |
| 10° | 54683 |
| 15° | 56059 |
| 20° | 56469 |
| 25° | 54847 |
| 30° | 50291 |
| 35° | 41379 |
| 40° | 30174 |
| 45° | 19589 |
| 50° | 11034 |
| 55° | 5247  |
| 60° | 2072  |
| 65° | 1284  |
| 70° | 866   |
| 75° | 572   |
| 80° | 355   |
| 85° | 708   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.6   | 6.5       |
| 10°-20°   | 123.8  | 19.4      |
| 20°-30°   | 183.5  | 28.8      |
| 30°-40°   | 169.6  | 26.6      |
| 40°-50°   | 88.5   | 13.9      |
| 50°-60°   | 24.3   | 3.8       |
| 60°-70°   | 4.7    | 0.7       |
| 70°-80°   | 1.3    | 0.2       |
| 80°-90°   | 0.3    | 0.1       |
| 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°    | 349.0  | 54.7      |
| 0°-40°    | 518.5  | 81.3      |
| 0°-60°    | 631.4  | 99.0      |
| 0°-90°    | 637.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 637.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 435 |      |
| 5°  | 436 | 42   |
| 15° | 439 | 124  |
| 25° | 403 | 184  |
| 35° | 275 | 170  |
| 45° | 112 | 89   |
| 55° | 24  | 24   |
| 65° | 4   | 5    |
| 75° | 1   | 1    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 434.6 |
| 2.5°  | 433.3 |
| 5°    | 436.2 |
| 7.5°  | 437.4 |
| 10°   | 436.6 |
| 12.5° | 437.4 |
| 15°   | 439.0 |
| 17.5° | 437.4 |
| 20°   | 430.2 |
| 22.5° | 418.6 |
| 25°   | 403.0 |
| 27.5° | 381.8 |
| 30°   | 353.1 |
| 32.5° | 316.8 |
| 35°   | 274.8 |
| 37.5° | 230.9 |
| 40°   | 187.4 |
| 42.5° | 147.4 |
| 45°   | 112.3 |
| 47.5° | 82.3  |
| 50°   | 57.5  |
| 52.5° | 38.4  |
| 55°   | 24.4  |
| 57.5° | 14.4  |
| 60°   | 8.4   |
| 62.5° | 6.0   |
| 65°   | 4.4   |
| 67.5° | 3.2   |
| 70°   | 2.4   |
| 72.5° | 1.6   |
| 75°   | 1.2   |
| 77.5° | 0.8   |
| 80°   | 0.5   |
| 82.5° | 0.5   |
| 85°   | 0.5   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

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Scaled Data Report



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— 0°-180°

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