

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: P580527

Luminaire Tested: **HCC4W35D010MB-HM43040940-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W35D010MB-HM43040940-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

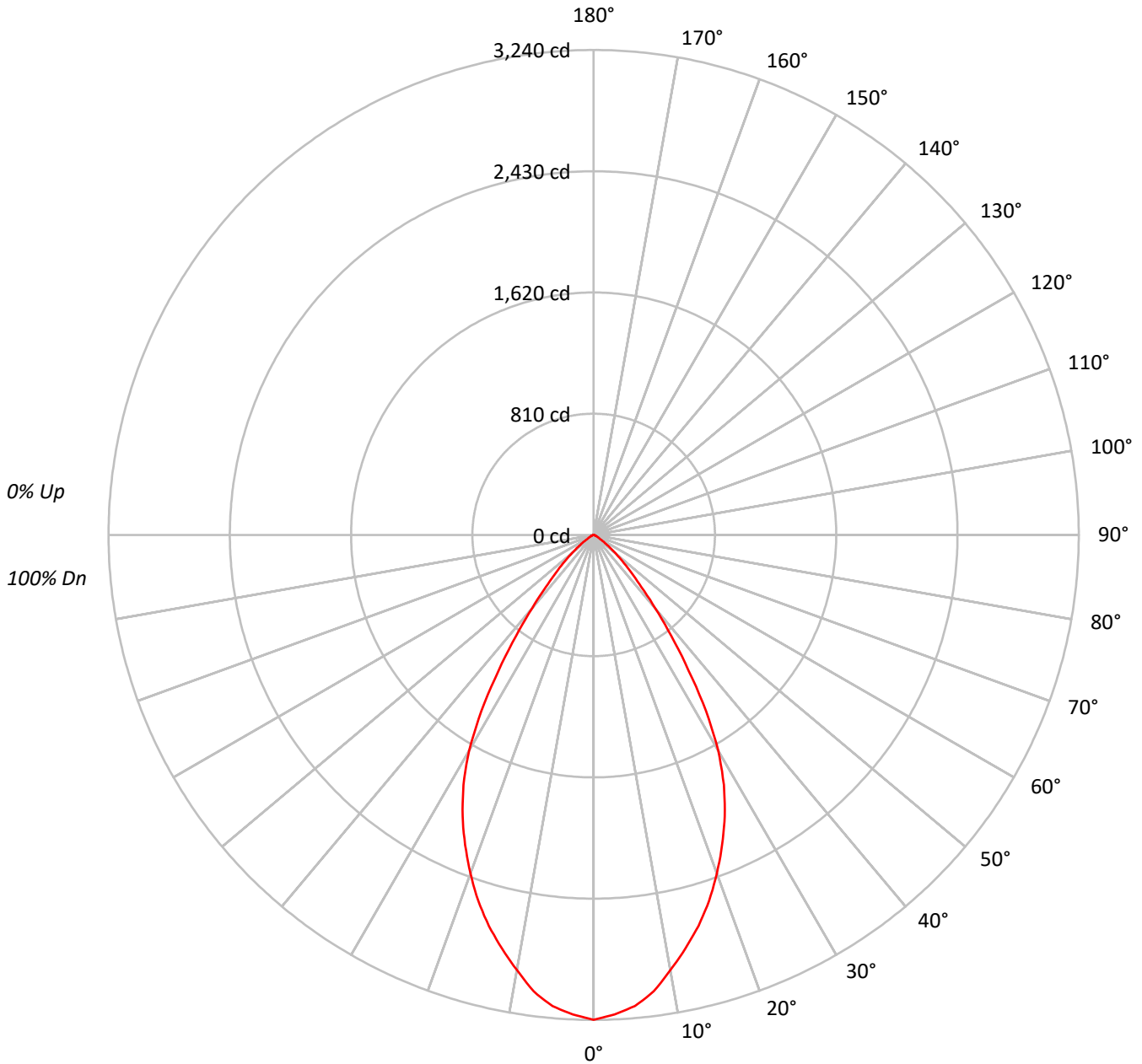
Lumens per Lamp: N/A  
Luminaire Lumens: 3086.6 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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  | 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 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  | 93  |    |    | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 86  |    |    | 86  |
| 3   | 101 | 95  | 89  | 85  | 99  | 93  | 88  | 84  | 91  | 86  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |    |    | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 81  | 77  | 85  | 80  | 76  | 82  | 79  | 75  | 81  | 77  | 74  | 73  |    |    | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  |    |    | 67  |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |    |    | 62  |
| 7   | 81  | 71  | 65  | 61  | 80  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |    |    | 58  |
| 8   | 77  | 67  | 61  | 56  | 76  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 54  |    |    | 54  |
| 9   | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |    |    | 51  |
| 10  | 70  | 59  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 47  |    |    | 47  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 399590 |
| 5°  | 391249 |
| 10° | 369733 |
| 15° | 345318 |
| 20° | 315829 |
| 25° | 282033 |
| 30° | 236828 |
| 35° | 166614 |
| 40° | 102777 |
| 45° | 61524  |
| 50° | 36248  |
| 55° | 18064  |
| 60° | 9325   |
| 65° | 6129   |
| 70° | 3787   |
| 75° | 3002   |
| 80° | 1492   |
| 85° | 2972   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 295.1  | 9.6       |
| 10°-20°   | 755.9  | 24.5      |
| 20°-30°   | 942.7  | 30.5      |
| 30°-40°   | 694.4  | 22.5      |
| 40°-50°   | 285.6  | 9.3       |
| 50°-60°   | 83.4   | 2.7       |
| 60°-70°   | 21.5   | 0.7       |
| 70°-80°   | 6.6    | 0.2       |
| 80°-90°   | 1.4    | 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°    | 1993.7 | 64.6      |
| 0°-40°    | 2688.1 | 87.1      |
| 0°-60°    | 3057.1 | 99.0      |
| 0°-90°    | 3086.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3086.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3240 |      |
| 5°  | 3160 | 295  |
| 15° | 2704 | 756  |
| 25° | 2072 | 943  |
| 35° | 1106 | 694  |
| 45° | 353  | 286  |
| 55° | 84   | 83   |
| 65° | 21   | 21   |
| 75° | 6    | 7    |
| 85° | 2    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3239.6 |
| 2.5°  | 3206.1 |
| 5°    | 3159.9 |
| 7.5°  | 3075.8 |
| 10°   | 2952.0 |
| 12.5° | 2830.2 |
| 15°   | 2704.2 |
| 17.5° | 2563.6 |
| 20°   | 2406.1 |
| 22.5° | 2242.4 |
| 25°   | 2072.3 |
| 27.5° | 1883.3 |
| 30°   | 1662.8 |
| 32.5° | 1396.2 |
| 35°   | 1106.5 |
| 37.5° | 850.3  |
| 40°   | 638.3  |
| 42.5° | 472.4  |
| 45°   | 352.7  |
| 47.5° | 260.3  |
| 50°   | 188.9  |
| 52.5° | 130.2  |
| 55°   | 84.0   |
| 57.5° | 50.4   |
| 60°   | 37.8   |
| 62.5° | 27.3   |
| 65°   | 21.0   |
| 67.5° | 14.7   |
| 70°   | 10.5   |
| 72.5° | 8.4    |
| 75°   | 6.3    |
| 77.5° | 4.2    |
| 80°   | 2.1    |
| 82.5° | 2.1    |
| 85°   | 2.1    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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— 0°-180°

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