

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: P592770

Luminaire Tested: **HCC4S35D010SL-HM43040850-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S35D010SL-HM43040850-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

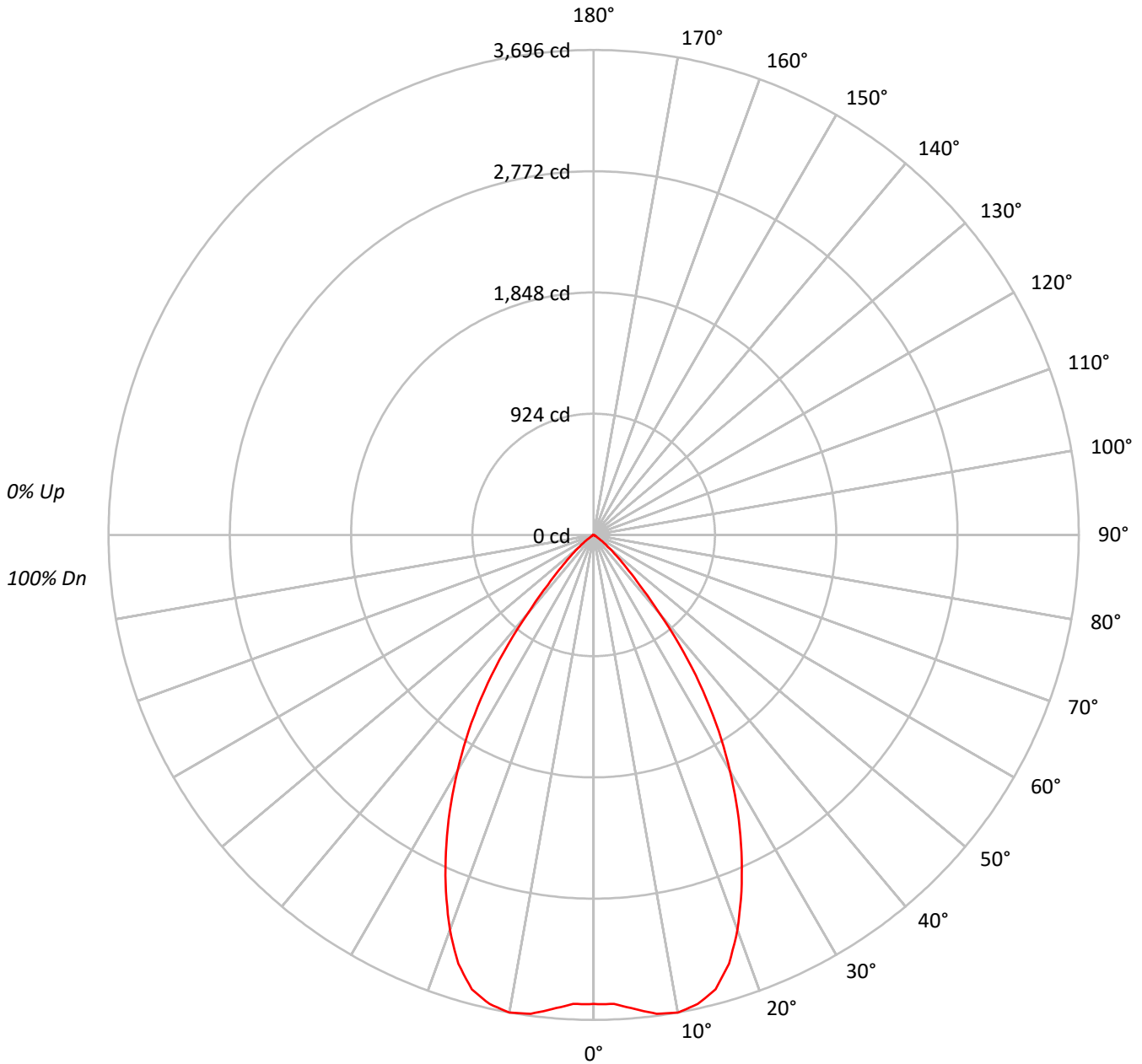
Lumens per Lamp: N/A  
Luminaire Lumens: 3807.4 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  | 93  |
| 2   | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  |  | 95  | 92  | 90  |  | 92  | 90  | 88  | 86  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  | 84  | 82  | 80  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 86  | 81  | 77  |  | 84  | 80  | 77  |  | 82  | 78  | 76  | 74  |
| 5   | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 72  |  | 78  | 74  | 71  |  | 77  | 73  | 70  | 69  |
| 6   | 87  | 78  | 71  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 72  | 68  | 65  | 64  |
| 7   | 82  | 73  | 66  | 62  | 81  | 72  | 66  | 62  | 71  | 65  | 62  |  | 69  | 65  | 61  |  | 68  | 64  | 61  | 60  |
| 8   | 78  | 68  | 62  | 58  | 77  | 68  | 62  | 58  | 67  | 61  | 57  |  | 65  | 61  | 57  |  | 65  | 60  | 57  | 56  |
| 9   | 74  | 64  | 58  | 54  | 73  | 64  | 58  | 54  | 63  | 57  | 54  |  | 62  | 57  | 54  |  | 61  | 57  | 53  | 52  |
| 10  | 70  | 61  | 55  | 51  | 69  | 60  | 54  | 51  | 59  | 54  | 50  |  | 58  | 54  | 50  |  | 58  | 53  | 50  | 49  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 440998 |
| 5°  | 449121 |
| 10° | 462956 |
| 15° | 457819 |
| 20° | 420405 |
| 25° | 362684 |
| 30° | 295551 |
| 35° | 218834 |
| 40° | 125544 |
| 45° | 60687  |
| 50° | 28880  |
| 55° | 10086  |
| 60° | 3651   |
| 65° | 2160   |
| 70° | 1767   |
| 75° | 1191   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 348.9  | 9.2       |
| 10°-20°   | 993.9  | 26.1      |
| 20°-30°   | 1213.8 | 31.9      |
| 30°-40°   | 892.3  | 23.4      |
| 40°-50°   | 295.8  | 7.8       |
| 50°-60°   | 52.2   | 1.4       |
| 60°-70°   | 7.9    | 0.2       |
| 70°-80°   | 2.6    | 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°    | 2556.6 | 67.1      |
| 0°-40°    | 3448.9 | 90.6      |
| 0°-60°    | 3796.9 | 99.7      |
| 0°-90°    | 3807.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3807.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3575 |      |
| 5°  | 3627 | 349  |
| 15° | 3585 | 994  |
| 25° | 2665 | 1214 |
| 35° | 1453 | 892  |
| 45° | 348  | 296  |
| 55° | 47   | 52   |
| 65° | 7    | 8    |
| 75° | 2    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3575.3 |
| 2.5°  | 3577.8 |
| 5°    | 3627.3 |
| 7.5°  | 3681.4 |
| 10°   | 3696.3 |
| 12.5° | 3661.8 |
| 15°   | 3585.2 |
| 17.5° | 3427.3 |
| 20°   | 3202.8 |
| 22.5° | 2941.3 |
| 25°   | 2664.9 |
| 27.5° | 2376.1 |
| 30°   | 2075.1 |
| 32.5° | 1774.1 |
| 35°   | 1453.3 |
| 37.5° | 1127.6 |
| 40°   | 779.7  |
| 42.5° | 515.7  |
| 45°   | 347.9  |
| 47.5° | 232.0  |
| 50°   | 150.5  |
| 52.5° | 88.8   |
| 55°   | 46.9   |
| 57.5° | 19.8   |
| 60°   | 14.8   |
| 62.5° | 9.9    |
| 65°   | 7.4    |
| 67.5° | 4.9    |
| 70°   | 4.9    |
| 72.5° | 2.5    |
| 75°   | 2.5    |
| 77.5° | 2.5    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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