

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P696494

Luminaire Tested: **MRI-FEU4C-15-L927 F4X-W-X-H**

Issue Date: 08/03/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P696494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 08/03/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-FEU4C-15-L927 F4X-W-X-H  
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM  
Light Source: -  
Ballast/Driver: -

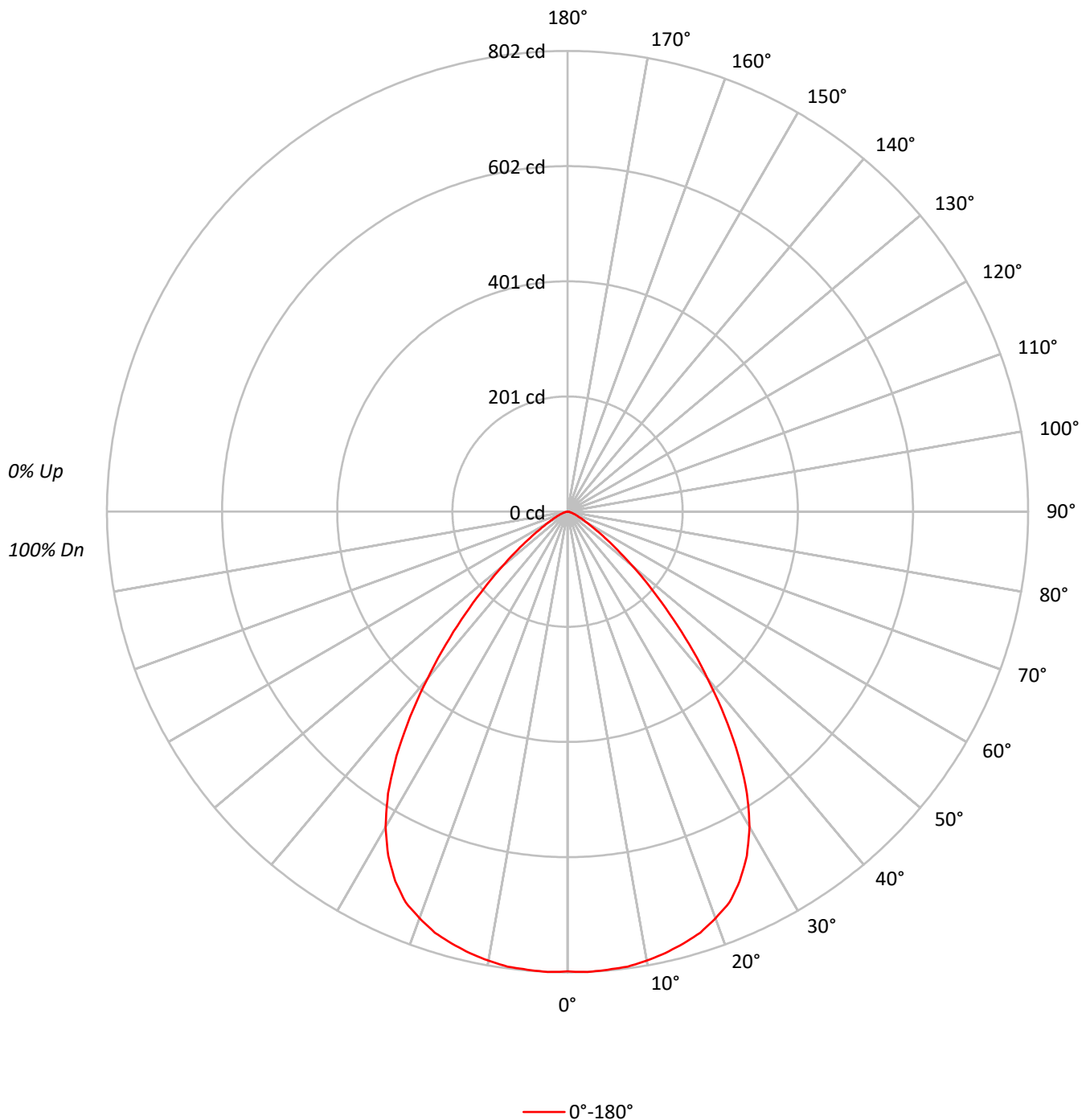
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1242.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  |  | 91  | 88  | 86  |  | 89  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 75  | 70  |  | 78  | 73  | 70  |  | 76  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  |  | 72  | 67  | 63  |  | 70  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 65  |
| 7   | 76  | 65  | 58  | 53  | 75  | 65  | 58  | 53  | 63  | 57  | 53  |  | 62  | 56  | 52  |  | 61  |
| 8   | 72  | 60  | 53  | 49  | 70  | 60  | 53  | 49  | 59  | 53  | 48  |  | 58  | 52  | 48  |  | 57  |
| 9   | 68  | 56  | 49  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  |
| 10  | 64  | 52  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 49  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 98344 |
| 5°  | 98720 |
| 10° | 99026 |
| 15° | 99028 |
| 20° | 98485 |
| 25° | 96175 |
| 30° | 89896 |
| 35° | 77838 |
| 40° | 60814 |
| 45° | 43626 |
| 50° | 28344 |
| 55° | 16964 |
| 60° | 9927  |
| 65° | 6366  |
| 70° | 4239  |
| 75° | 3180  |
| 80° | 2405  |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.2   | 6.1       |
| 10°-20°   | 219.7  | 17.7      |
| 20°-30°   | 324.1  | 26.1      |
| 30°-40°   | 319.9  | 25.8      |
| 40°-50°   | 195.8  | 15.8      |
| 50°-60°   | 75.1   | 6.0       |
| 60°-70°   | 23.5   | 1.9       |
| 70°-80°   | 6.9    | 0.6       |
| 80°-90°   | 0.9    | 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°    | 620.0  | 49.9      |
| 0°-40°    | 939.9  | 75.7      |
| 0°-60°    | 1210.8 | 97.5      |
| 0°-90°    | 1242.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1242.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 800 |      |
| 5°  | 800 | 76   |
| 15° | 779 | 220  |
| 25° | 710 | 324  |
| 35° | 519 | 320  |
| 45° | 251 | 196  |
| 55° | 79  | 75   |
| 65° | 22  | 23   |
| 75° | 7   | 7    |
| 85° | 0   | 1    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 800.5 |
| 2.5°  | 802.2 |
| 5°    | 800.5 |
| 7.5°  | 798.9 |
| 10°   | 793.8 |
| 12.5° | 787.0 |
| 15°   | 778.6 |
| 17.5° | 768.5 |
| 20°   | 753.3 |
| 22.5° | 736.5 |
| 25°   | 709.5 |
| 27.5° | 675.8 |
| 30°   | 633.7 |
| 32.5° | 581.5 |
| 35°   | 519.0 |
| 37.5° | 450.0 |
| 40°   | 379.2 |
| 42.5° | 313.5 |
| 45°   | 251.1 |
| 47.5° | 195.5 |
| 50°   | 148.3 |
| 52.5° | 109.6 |
| 55°   | 79.2  |
| 57.5° | 55.6  |
| 60°   | 40.4  |
| 62.5° | 30.4  |
| 65°   | 21.9  |
| 67.5° | 16.9  |
| 70°   | 11.8  |
| 72.5° | 8.4   |
| 75°   | 6.7   |
| 77.5° | 3.4   |
| 80°   | 3.4   |
| 82.5° | 1.7   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)