

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: P699164

Luminaire Tested: **MRI-FEU6C-40-L935 F6X-W-X-LI**

Issue Date: 08/03/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P699164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 08/03/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-FEU6C-40-L935 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWLI TRIM  
Light Source: -  
Ballast/Driver: -

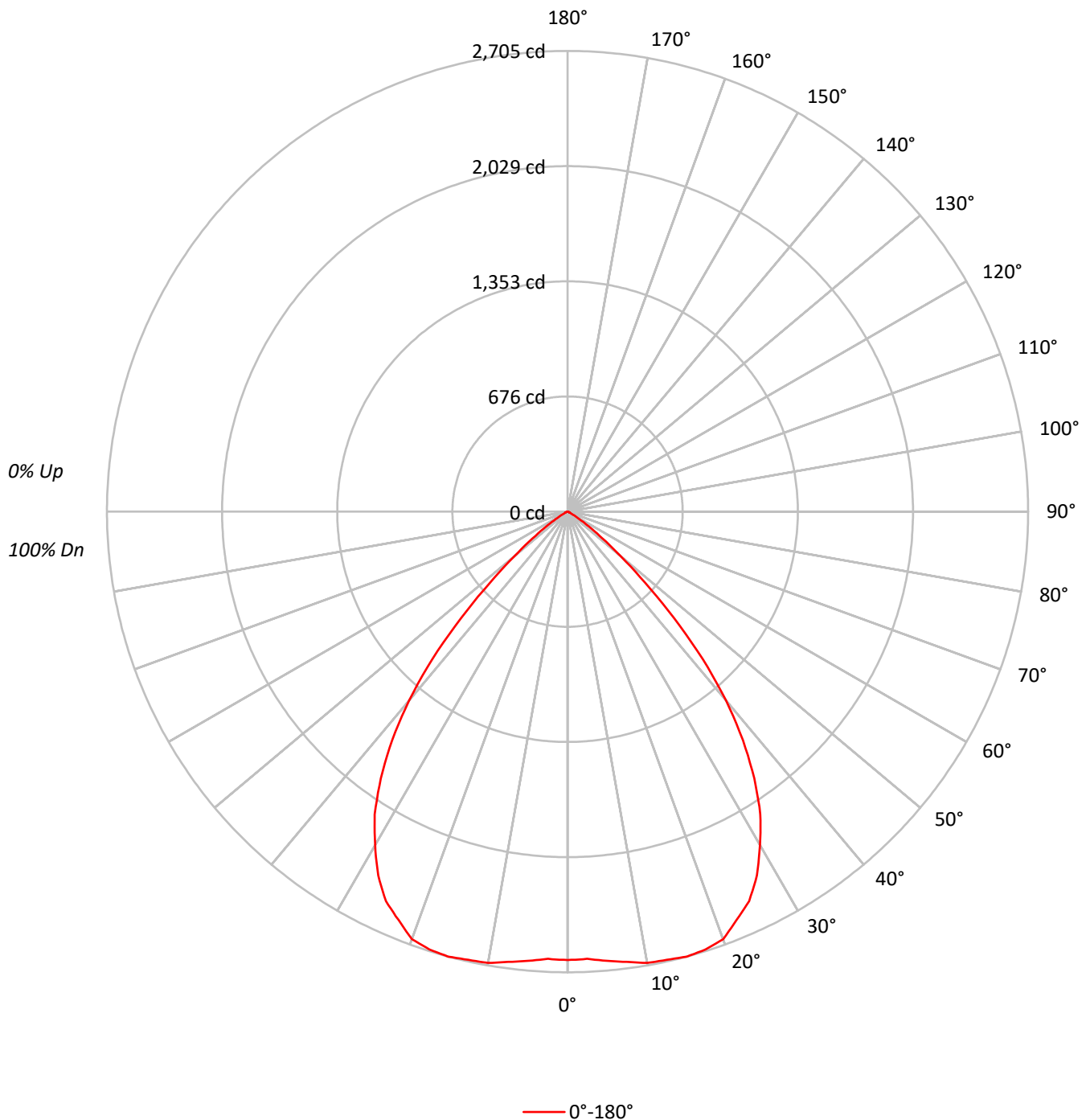
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4215.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99  |  | 100 | 98  | 97  |  | 96  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 95  | 92  | 89  |  | 92  | 90  | 87  |  | 90  |
| 3   | 100 | 92  | 87  | 82  | 97  | 91  | 86  | 81  | 88  | 84  | 80  |  | 86  | 82  | 79  |  | 83  |
| 4   | 93  | 85  | 78  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 72  |  | 79  | 75  | 71  |  | 77  |
| 5   | 88  | 78  | 71  | 66  | 86  | 77  | 71  | 66  | 75  | 70  | 65  |  | 73  | 69  | 65  |  | 72  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 70  | 64  | 59  |  | 68  | 63  | 59  |  | 67  |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 59  | 55  | 65  | 59  | 54  |  | 63  | 58  | 54  |  | 62  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 55  | 50  | 60  | 54  | 50  |  | 59  | 54  | 50  |  | 58  |
| 9   | 69  | 57  | 51  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 54  |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 144352 |
| 5°  | 145691 |
| 10° | 149763 |
| 15° | 153514 |
| 20° | 155845 |
| 25° | 152622 |
| 30° | 143092 |
| 35° | 127930 |
| 40° | 103623 |
| 45° | 68550  |
| 50° | 34643  |
| 55° | 14614  |
| 60° | 4715   |
| 65° | 1855   |
| 70° | 1539   |
| 75° | 1017   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 254.0  | 6.0       |
| 10°-20°   | 763.5  | 18.1      |
| 20°-30°   | 1151.0 | 27.3      |
| 30°-40°   | 1178.1 | 27.9      |
| 40°-50°   | 686.3  | 16.3      |
| 50°-60°   | 157.7  | 3.7       |
| 60°-70°   | 19.4   | 0.5       |
| 70°-80°   | 5.1    | 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°    | 2168.5 | 51.4      |
| 0°-40°    | 3346.6 | 79.4      |
| 0°-60°    | 4190.6 | 99.4      |
| 0°-90°    | 4215.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4215.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2633 |      |
| 5°  | 2648 | 254  |
| 15° | 2705 | 764  |
| 25° | 2523 | 1151 |
| 35° | 1912 | 1178 |
| 45° | 884  | 686  |
| 55° | 153  | 158  |
| 65° | 14   | 19   |
| 75° | 5    | 5    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2633.2 |
| 2.5°  | 2628.4 |
| 5°    | 2647.5 |
| 7.5°  | 2666.6 |
| 10°   | 2690.4 |
| 12.5° | 2695.3 |
| 15°   | 2704.9 |
| 17.5° | 2695.3 |
| 20°   | 2671.4 |
| 22.5° | 2594.9 |
| 25°   | 2523.2 |
| 27.5° | 2408.6 |
| 30°   | 2260.5 |
| 32.5° | 2107.5 |
| 35°   | 1911.6 |
| 37.5° | 1691.7 |
| 40°   | 1448.0 |
| 42.5° | 1175.6 |
| 45°   | 884.2  |
| 47.5° | 616.4  |
| 50°   | 406.2  |
| 52.5° | 258.1  |
| 55°   | 152.9  |
| 57.5° | 81.3   |
| 60°   | 43.0   |
| 62.5° | 23.9   |
| 65°   | 14.3   |
| 67.5° | 14.3   |
| 70°   | 9.6    |
| 72.5° | 4.8    |
| 75°   | 4.8    |
| 77.5° | 4.8    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)