

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: P727180

Luminaire Tested: **MRI-DRV-FLD4C-30-L940 F4LC-M-X-LI**

Issue Date: 08/03/2023



**Test Information**

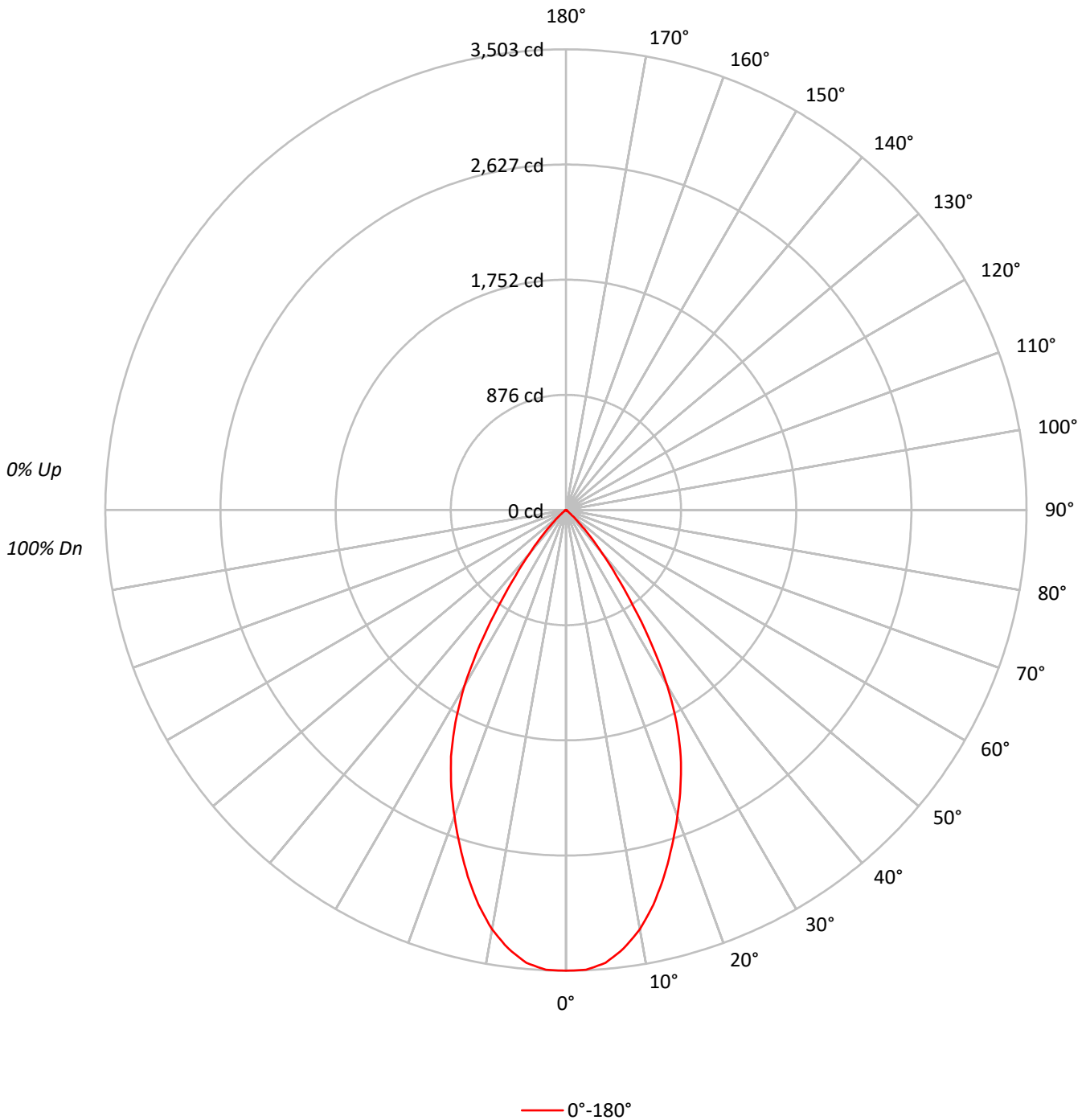
Test Method: LM-79-08  
Report Number: P727180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 08/03/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-DRV-FLD4C-30-L940 F4LC-M-X-LI  
Description: 4 INCH FAIL-SAFE MRI REMOTE DRIVER LED DOWNLIGHT WITH 4000K, 90 CRI  
LEDS, 4LBMLI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2799.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.6  
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  | 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 | 100 | 100 |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  | 94  | 94  | 94  |
| 2   | 108 | 103 | 100 | 96  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 88  | 88  | 88  | 88  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 82  | 82  | 82  | 82  |
| 4   | 98  | 91  | 85  | 81  | 96  | 89  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 83  | 80  | 78  | 76  | 76  | 76  | 76  |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 73  | 79  | 76  | 73  | 71  | 71  | 71  | 71  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 67  | 67  | 67  | 67  |
| 7   | 84  | 75  | 69  | 65  | 83  | 75  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 71  | 67  | 64  | 63  | 63  | 63  | 63  |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 59  | 59  | 59  | 59  |
| 9   | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  | 55  | 55  | 55  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  | 52  | 52  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 430331 |
| 5°  | 426240 |
| 10° | 403899 |
| 15° | 366706 |
| 20° | 324034 |
| 25° | 280136 |
| 30° | 218988 |
| 35° | 134289 |
| 40° | 68929  |
| 45° | 27382  |
| 50° | 8887   |
| 55° | 3063   |
| 60° | 2629   |
| 65° | 2093   |
| 70° | 1293   |
| 75° | 1709   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 322.7  | 11.5      |
| 10°-20°   | 803.4  | 28.7      |
| 20°-30°   | 933.9  | 33.4      |
| 30°-40°   | 571.9  | 20.4      |
| 40°-50°   | 142.0  | 5.1       |
| 50°-60°   | 16.6   | 0.6       |
| 60°-70°   | 6.2    | 0.2       |
| 70°-80°   | 2.4    | 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°    | 2059.9 | 73.6      |
| 0°-40°    | 2631.8 | 94.0      |
| 0°-60°    | 2790.4 | 99.7      |
| 0°-90°    | 2799.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2799.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3503 |      |
| 5°  | 3456 | 323  |
| 15° | 2883 | 803  |
| 25° | 2067 | 934  |
| 35° | 895  | 572  |
| 45° | 158  | 142  |
| 55° | 14   | 17   |
| 65° | 7    | 6    |
| 75° | 4    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3502.8 |
| 2.5°  | 3499.2 |
| 5°    | 3456.3 |
| 7.5°  | 3363.1 |
| 10°   | 3237.7 |
| 12.5° | 3073.0 |
| 15°   | 2883.2 |
| 17.5° | 2679.0 |
| 20°   | 2478.5 |
| 22.5° | 2277.9 |
| 25°   | 2066.6 |
| 27.5° | 1823.1 |
| 30°   | 1543.7 |
| 32.5° | 1217.7 |
| 35°   | 895.4  |
| 37.5° | 630.3  |
| 40°   | 429.8  |
| 42.5° | 268.6  |
| 45°   | 157.6  |
| 47.5° | 89.6   |
| 50°   | 46.5   |
| 52.5° | 21.5   |
| 55°   | 14.3   |
| 57.5° | 10.7   |
| 60°   | 10.7   |
| 62.5° | 7.2    |
| 65°   | 7.2    |
| 67.5° | 3.6    |
| 70°   | 3.6    |
| 72.5° | 3.6    |
| 75°   | 3.6    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)