

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: P571753

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-40 F4X-M-X-LI-BL84**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P571753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-02-D010 FEU4C-X-90-40 F4X-M-X-LI-BL84  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMLI TRIM  
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE  
  
Light Source: -  
Ballast/Driver: -

**Summary**

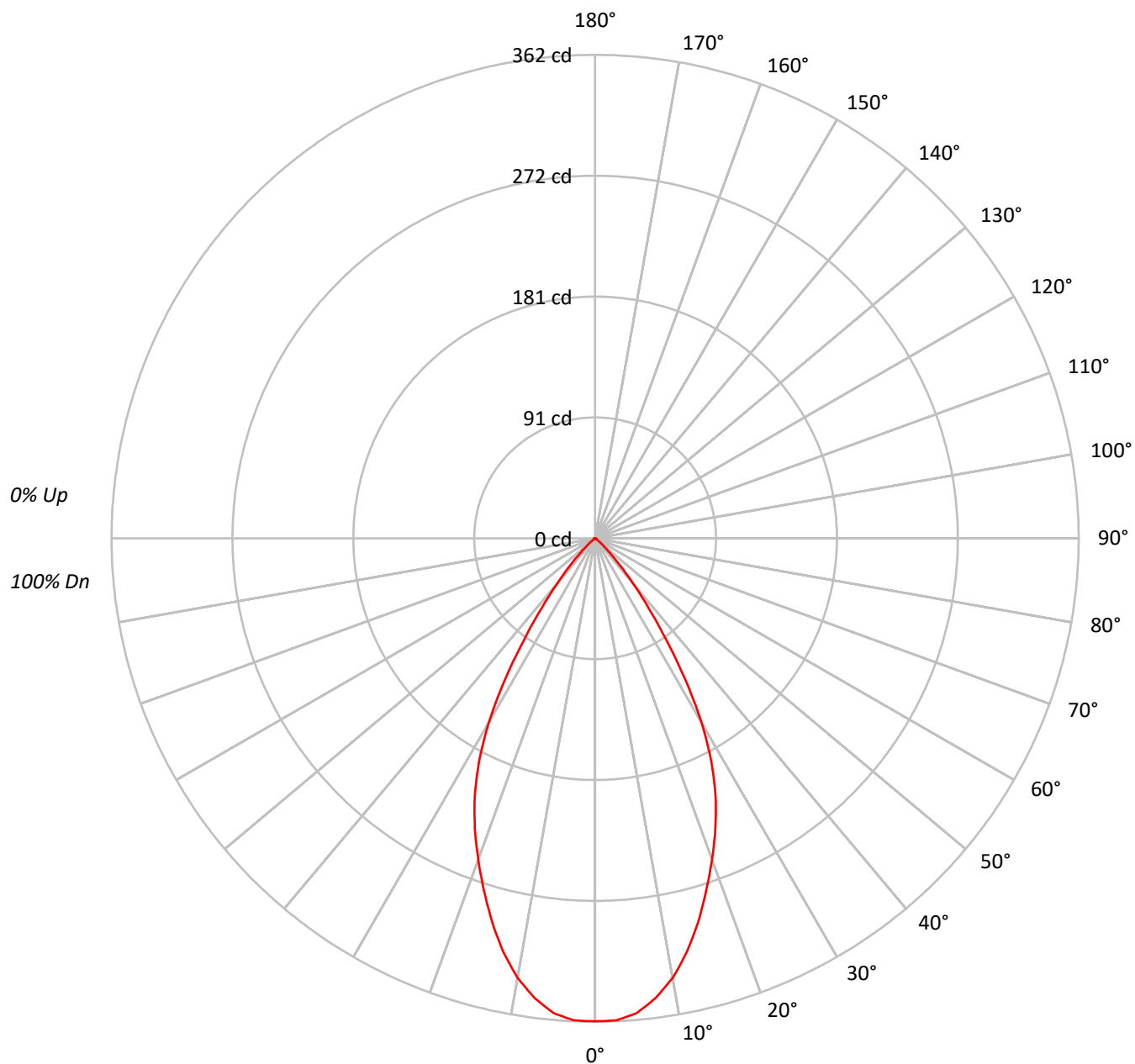
Lumens per Lamp: N/A  
Luminaire Lumens: 289.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.5  
Input Voltage (V): NR  
Input Current (Ain): 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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 114 | 111 | 109 | 106 |  | 111 | 109 | 107 | 105 |  | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 98  | 97  | 96  |
| 2   | 108 | 103 | 100 | 96  |  | 106 | 102 | 98  | 95  |  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  | 91  | 89  |
| 3   | 103 | 97  | 92  | 88  |  | 101 | 95  | 91  | 87  |  | 93  | 89  | 86  |  | 90  | 87  | 85  |  | 88  | 85  | 83  |
| 4   | 98  | 91  | 85  | 81  |  | 96  | 89  | 84  | 81  |  | 87  | 83  | 80  |  | 85  | 82  | 79  |  | 83  | 80  | 78  |
| 5   | 93  | 85  | 79  | 75  |  | 91  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 81  | 77  | 73  |  | 79  | 76  | 73  |
| 6   | 89  | 80  | 74  | 70  |  | 87  | 79  | 74  | 70  |  | 78  | 73  | 69  |  | 76  | 72  | 69  |  | 75  | 71  | 68  |
| 7   | 84  | 75  | 69  | 65  |  | 83  | 75  | 69  | 65  |  | 73  | 68  | 65  |  | 72  | 68  | 64  |  | 71  | 67  | 64  |
| 8   | 80  | 71  | 65  | 61  |  | 79  | 70  | 65  | 61  |  | 69  | 64  | 61  |  | 68  | 64  | 60  |  | 67  | 63  | 60  |
| 9   | 77  | 67  | 61  | 57  |  | 75  | 67  | 61  | 57  |  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  | 60  | 57  |
| 10  | 73  | 64  | 58  | 54  |  | 72  | 63  | 58  | 54  |  | 62  | 57  | 54  |  | 62  | 57  | 54  |  | 61  | 57  | 54  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 44436 |
| 5°  | 44014 |
| 10° | 41703 |
| 15° | 37864 |
| 20° | 33456 |
| 25° | 28927 |
| 30° | 22612 |
| 35° | 13873 |
| 40° | 7121  |
| 45° | 2832  |
| 50° | 917   |
| 55° | 321   |
| 60° | 270   |
| 65° | 203   |
| 70° | 144   |
| 75° | 190   |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.3   | 11.5      |
| 10°-20°   | 82.9   | 28.7      |
| 20°-30°   | 96.4   | 33.4      |
| 30°-40°   | 59.1   | 20.4      |
| 40°-50°   | 14.7   | 5.1       |
| 50°-60°   | 1.7    | 0.6       |
| 60°-70°   | 0.6    | 0.2       |
| 70°-80°   | 0.3    | 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°    | 212.7  | 73.6      |
| 0°-40°    | 271.7  | 94.0      |
| 0°-60°    | 288.1  | 99.7      |
| 0°-90°    | 289.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 289.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 362 |      |
| 5°  | 357 | 33   |
| 15° | 298 | 83   |
| 25° | 213 | 96   |
| 35° | 92  | 59   |
| 45° | 16  | 15   |
| 55° | 2   | 2    |
| 65° | 1   | 1    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 361.7 |
| 2.5°  | 361.3 |
| 5°    | 356.9 |
| 7.5°  | 347.2 |
| 10°   | 334.3 |
| 12.5° | 317.3 |
| 15°   | 297.7 |
| 17.5° | 276.6 |
| 20°   | 255.9 |
| 22.5° | 235.2 |
| 25°   | 213.4 |
| 27.5° | 188.2 |
| 30°   | 159.4 |
| 32.5° | 125.7 |
| 35°   | 92.5  |
| 37.5° | 65.1  |
| 40°   | 44.4  |
| 42.5° | 27.7  |
| 45°   | 16.3  |
| 47.5° | 9.2   |
| 50°   | 4.8   |
| 52.5° | 2.2   |
| 55°   | 1.5   |
| 57.5° | 1.1   |
| 60°   | 1.1   |
| 62.5° | 0.7   |
| 65°   | 0.7   |
| 67.5° | 0.4   |
| 70°   | 0.4   |
| 72.5° | 0.4   |
| 75°   | 0.4   |
| 77.5° | 0.0   |
| 80°   | 0.0   |
| 82.5° | 0.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)