

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: P572870

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572870  
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-25-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM  
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE  
  
Light Source: -  
Ballast/Driver: -

**Summary**

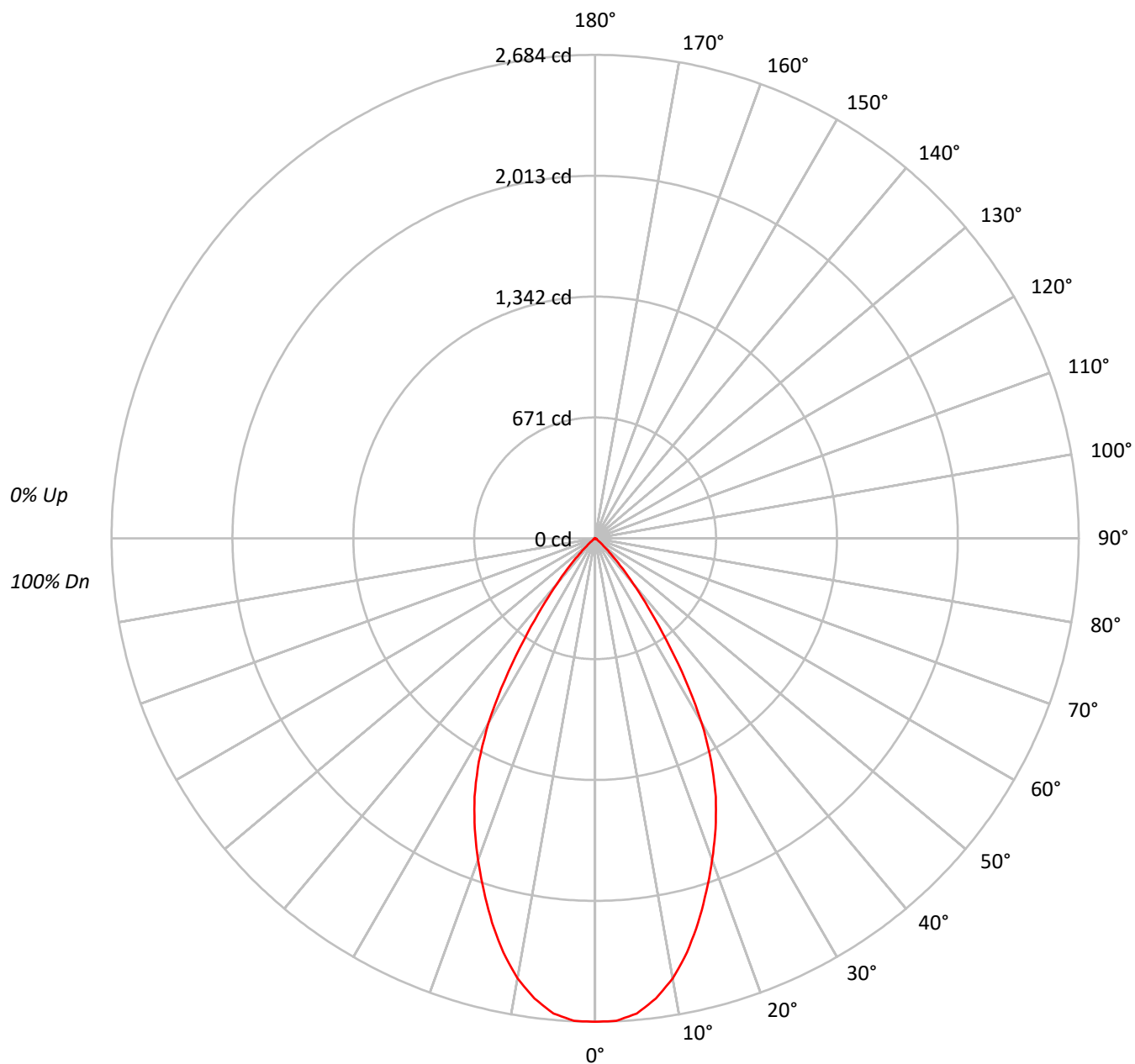
Lumens per Lamp: N/A  
Luminaire Lumens: 2145.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
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  |     |    |    | 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 |    |    |   |  |  |  |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |    |    |   |  |  |  |
| 2   | 108 | 103 | 100 | 96  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 88  |    |    |   |  |  |  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 82  |    |    |   |  |  |  |
| 4   | 98  | 91  | 85  | 81  | 96  | 89  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 83  | 80  | 78  | 76  |    |    |   |  |  |  |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 73  | 79  | 76  | 73  | 71  |    |    |   |  |  |  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 67  |    |    |   |  |  |  |
| 7   | 84  | 75  | 69  | 65  | 83  | 75  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 71  | 67  | 64  | 63  |    |    |   |  |  |  |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |    |    |   |  |  |  |
| 9   | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  |    |    |   |  |  |  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  |    |    |   |  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 329788 |
| 5°  | 326645 |
| 10° | 309526 |
| 15° | 281020 |
| 20° | 248324 |
| 25° | 214690 |
| 30° | 167819 |
| 35° | 102914 |
| 40° | 52827  |
| 45° | 20988  |
| 50° | 6823   |
| 55° | 2356   |
| 60° | 2015   |
| 65° | 1599   |
| 70° | 1006   |
| 75° | 1329   |
| 80° | 0      |
| 85° | 0      |



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CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 247.3  | 11.5      |
| 10°-20°   | 615.7  | 28.7      |
| 20°-30°   | 715.7  | 33.4      |
| 30°-40°   | 438.3  | 20.4      |
| 40°-50°   | 108.8  | 5.1       |
| 50°-60°   | 12.7   | 0.6       |
| 60°-70°   | 4.8    | 0.2       |
| 70°-80°   | 1.8    | 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°    | 1578.6 | 73.6      |
| 0°-40°    | 2016.9 | 94.0      |
| 0°-60°    | 2138.4 | 99.7      |
| 0°-90°    | 2145.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2145.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2684 |      |
| 5°  | 2649 | 247  |
| 15° | 2210 | 616  |
| 25° | 1584 | 716  |
| 35° | 686  | 438  |
| 45° | 121  | 109  |
| 55° | 11   | 13   |
| 65° | 6    | 5    |
| 75° | 3    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2684.4 |
| 2.5°  | 2681.6 |
| 5°    | 2648.7 |
| 7.5°  | 2577.3 |
| 10°   | 2481.2 |
| 12.5° | 2355.0 |
| 15°   | 2209.5 |
| 17.5° | 2053.1 |
| 20°   | 1899.4 |
| 22.5° | 1745.6 |
| 25°   | 1583.8 |
| 27.5° | 1397.1 |
| 30°   | 1183.0 |
| 32.5° | 933.2  |
| 35°   | 686.2  |
| 37.5° | 483.0  |
| 40°   | 329.4  |
| 42.5° | 205.8  |
| 45°   | 120.8  |
| 47.5° | 68.6   |
| 50°   | 35.7   |
| 52.5° | 16.5   |
| 55°   | 11.0   |
| 57.5° | 8.2    |
| 60°   | 8.2    |
| 62.5° | 5.5    |
| 65°   | 5.5    |
| 67.5° | 2.8    |
| 70°   | 2.8    |
| 72.5° | 2.8    |
| 75°   | 2.8    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)