

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: P572728

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572728  
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-90-27 F4X-M-X-LI-BL89AM  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM  
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE  
  
Light Source: -  
Ballast/Driver: -

**Summary**

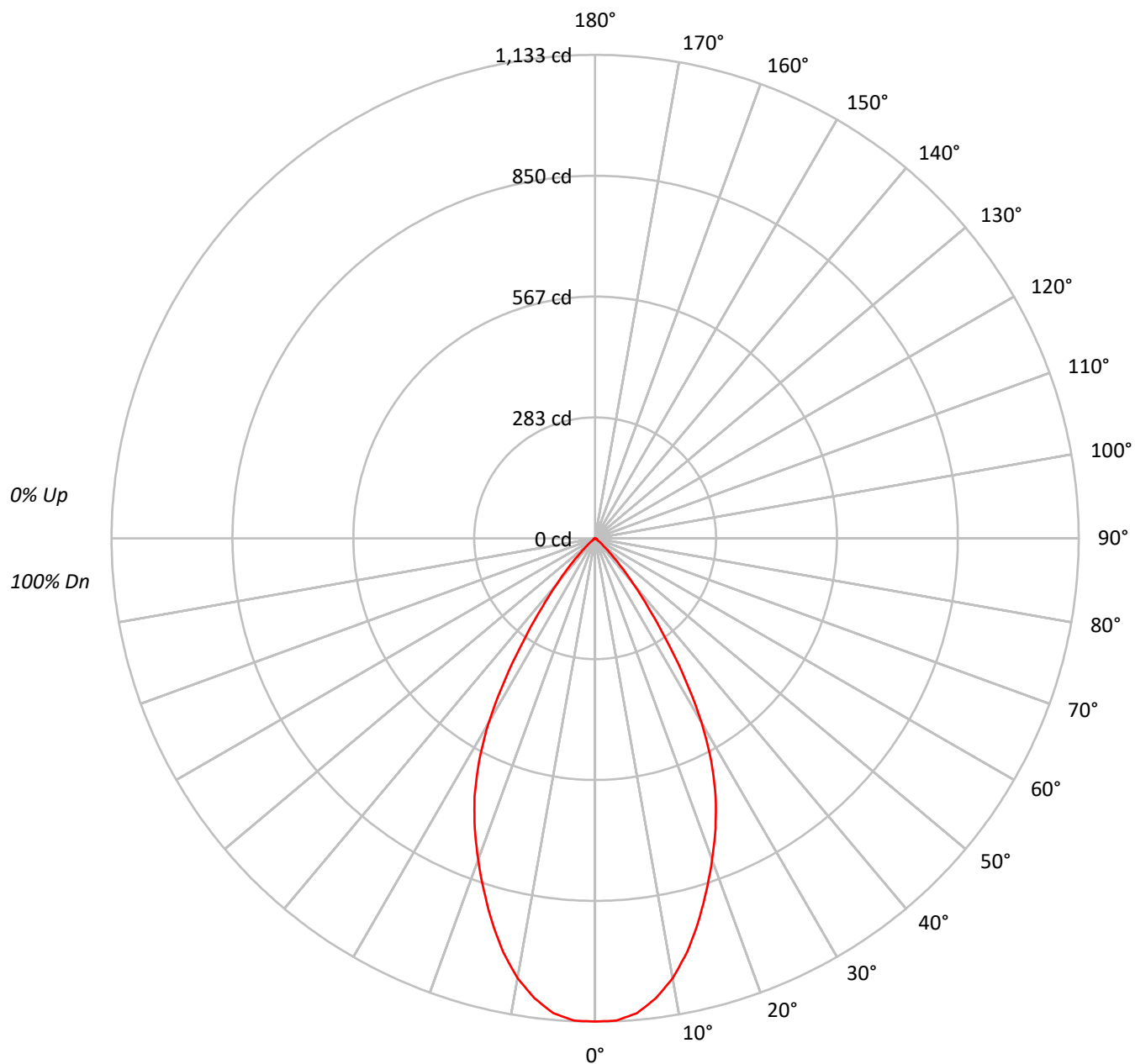
Lumens per Lamp: N/A  
Luminaire Lumens: 905.0 lumens  
Efficiency: N/A  
Efficacy: 28.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P572728

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM

### Luminous Intensity Polar Plot





TEST NUMBER: P572728

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 139144 |
| 5°  | 137813 |
| 10° | 130599 |
| 15° | 118564 |
| 20° | 104773 |
| 25° | 90577  |
| 30° | 70802  |
| 35° | 43418  |
| 40° | 22292  |
| 45° | 8861   |
| 50° | 2867   |
| 55° | 985    |
| 60° | 860    |
| 65° | 669    |
| 70° | 431    |
| 75° | 570    |
| 80° | 0      |
| 85° | 0      |



TEST NUMBER: P572728

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.3  | 11.5      |
| 10°-20°   | 259.8  | 28.7      |
| 20°-30°   | 301.9  | 33.4      |
| 30°-40°   | 184.9  | 20.4      |
| 40°-50°   | 45.9   | 5.1       |
| 50°-60°   | 5.4    | 0.6       |
| 60°-70°   | 2.0    | 0.2       |
| 70°-80°   | 0.8    | 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°    | 666.0  | 73.6      |
| 0°-40°    | 850.9  | 94.0      |
| 0°-60°    | 902.2  | 99.7      |
| 0°-90°    | 905.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 905.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1133 |      |
| 5°  | 1118 | 104  |
| 15° | 932  | 260  |
| 25° | 668  | 302  |
| 35° | 290  | 185  |
| 45° | 51   | 46   |
| 55° | 5    | 5    |
| 65° | 2    | 2    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P572728

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1132.6 |
| 2.5°  | 1131.4 |
| 5°    | 1117.5 |
| 7.5°  | 1087.4 |
| 10°   | 1046.9 |
| 12.5° | 993.6  |
| 15°   | 932.2  |
| 17.5° | 866.2  |
| 20°   | 801.4  |
| 22.5° | 736.5  |
| 25°   | 668.2  |
| 27.5° | 589.4  |
| 30°   | 499.1  |
| 32.5° | 393.7  |
| 35°   | 289.5  |
| 37.5° | 203.8  |
| 40°   | 139.0  |
| 42.5° | 86.8   |
| 45°   | 51.0   |
| 47.5° | 29.0   |
| 50°   | 15.0   |
| 52.5° | 7.0    |
| 55°   | 4.6    |
| 57.5° | 3.5    |
| 60°   | 3.5    |
| 62.5° | 2.3    |
| 65°   | 2.3    |
| 67.5° | 1.2    |
| 70°   | 1.2    |
| 72.5° | 1.2    |
| 75°   | 1.2    |
| 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)