

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: P573762

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

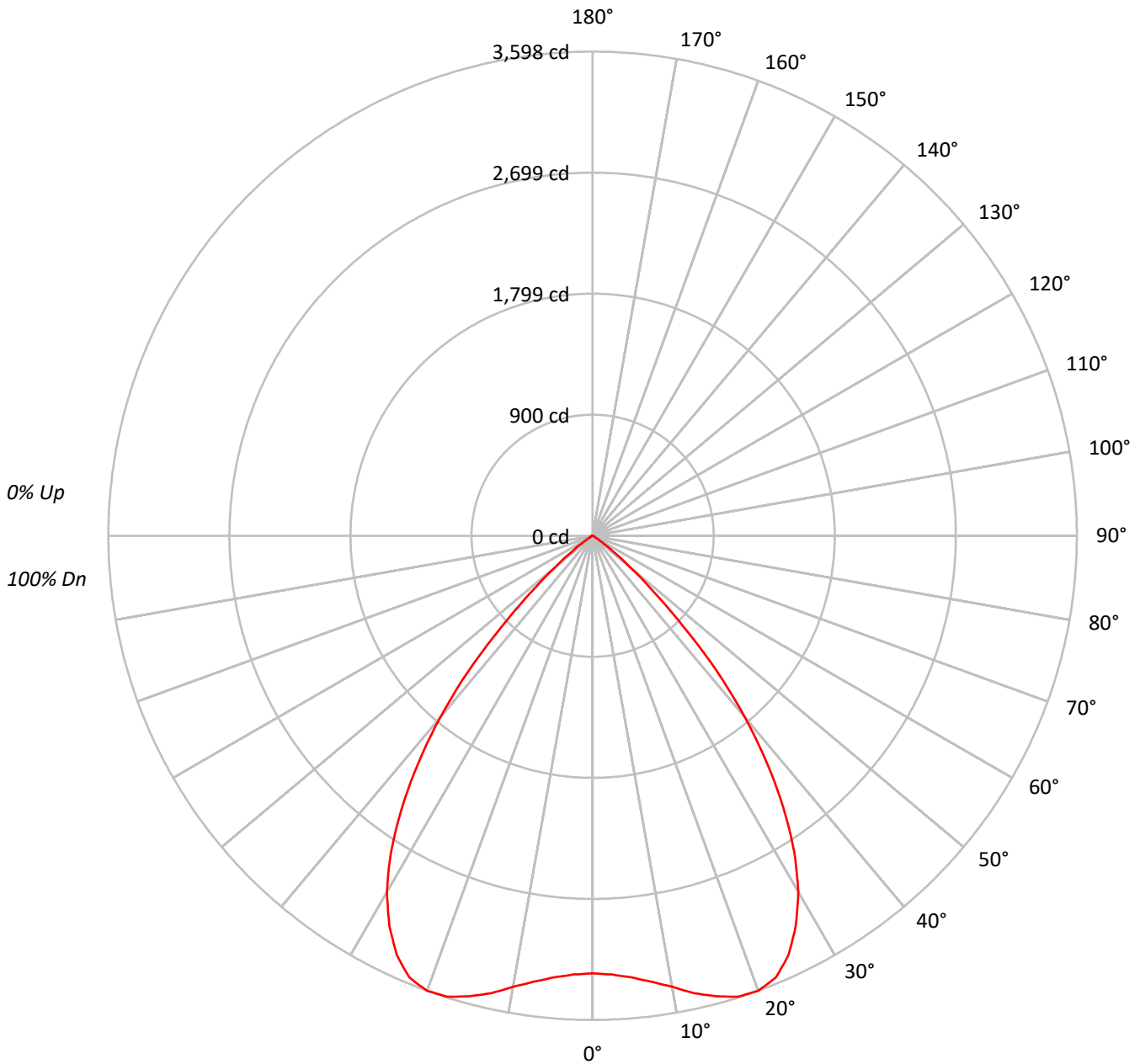
Lumens per Lamp: N/A  
Luminaire Lumens: 5306.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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: P573762

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI

### Luminous Intensity Polar Plot





TEST NUMBER: P573762

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI

**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   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 106 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  | 84  | 84  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 92  | 86  | 82  | 89  | 85  | 81  | 86  | 83  | 80  | 84  | 81  | 78  | 77  | 77  | 77  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 72  | 70  | 70  | 70  | 70  |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  | 64  | 64  | 64  |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  | 58  | 58  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 54  | 54  | 54  | 54  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  | 49  | 49  | 49  |
| 9   | 69  | 59  | 52  | 48  | 68  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  | 45  | 45  | 45  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 43  | 42  | 42  | 42  | 42  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 399397 |
| 5°  | 406163 |
| 10° | 424532 |
| 15° | 450586 |
| 20° | 470330 |
| 25° | 466251 |
| 30° | 433592 |
| 35° | 370937 |
| 40° | 282611 |
| 45° | 165766 |
| 50° | 70831  |
| 55° | 20841  |
| 60° | 5971   |
| 65° | 3546   |
| 70° | 2191   |
| 75° | 2895   |
| 80° | 0      |
| 85° | 0      |



TEST NUMBER: P573762

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 317.9  | 6.0       |
| 10°-20°   | 1003.3 | 18.9      |
| 20°-30°   | 1565.2 | 29.5      |
| 30°-40°   | 1522.9 | 28.7      |
| 40°-50°   | 760.7  | 14.3      |
| 50°-60°   | 117.7  | 2.2       |
| 60°-70°   | 14.3   | 0.3       |
| 70°-80°   | 4.0    | 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°    | 2886.4 | 54.4      |
| 0°-40°    | 4409.3 | 83.1      |
| 0°-60°    | 5287.7 | 99.7      |
| 0°-90°    | 5306.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5306.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3251 |      |
| 5°  | 3294 | 318  |
| 15° | 3543 | 1003 |
| 25° | 3440 | 1565 |
| 35° | 2473 | 1523 |
| 45° | 954  | 761  |
| 55° | 97   | 118  |
| 65° | 12   | 14   |
| 75° | 6    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P573762

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3251.0 |
| 2.5°  | 3263.1 |
| 5°    | 3293.5 |
| 7.5°  | 3342.2 |
| 10°   | 3403.1 |
| 12.5° | 3481.9 |
| 15°   | 3542.7 |
| 17.5° | 3591.4 |
| 20°   | 3597.5 |
| 22.5° | 3554.9 |
| 25°   | 3439.6 |
| 27.5° | 3269.2 |
| 30°   | 3056.5 |
| 32.5° | 2789.4 |
| 35°   | 2473.3 |
| 37.5° | 2126.7 |
| 40°   | 1762.2 |
| 42.5° | 1373.4 |
| 45°   | 954.1  |
| 47.5° | 613.7  |
| 50°   | 370.6  |
| 52.5° | 200.5  |
| 55°   | 97.3   |
| 57.5° | 42.6   |
| 60°   | 24.3   |
| 62.5° | 18.3   |
| 65°   | 12.2   |
| 67.5° | 12.2   |
| 70°   | 6.1    |
| 72.5° | 6.1    |
| 75°   | 6.1    |
| 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)