

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: P573289

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-27 F4X-W-X-LI-BL84**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573289  
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-40-D010 FEU4C-X-90-27 F4X-W-X-LI-BL84  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM  
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE  
  
Light Source: -  
Ballast/Driver: -

**Summary**

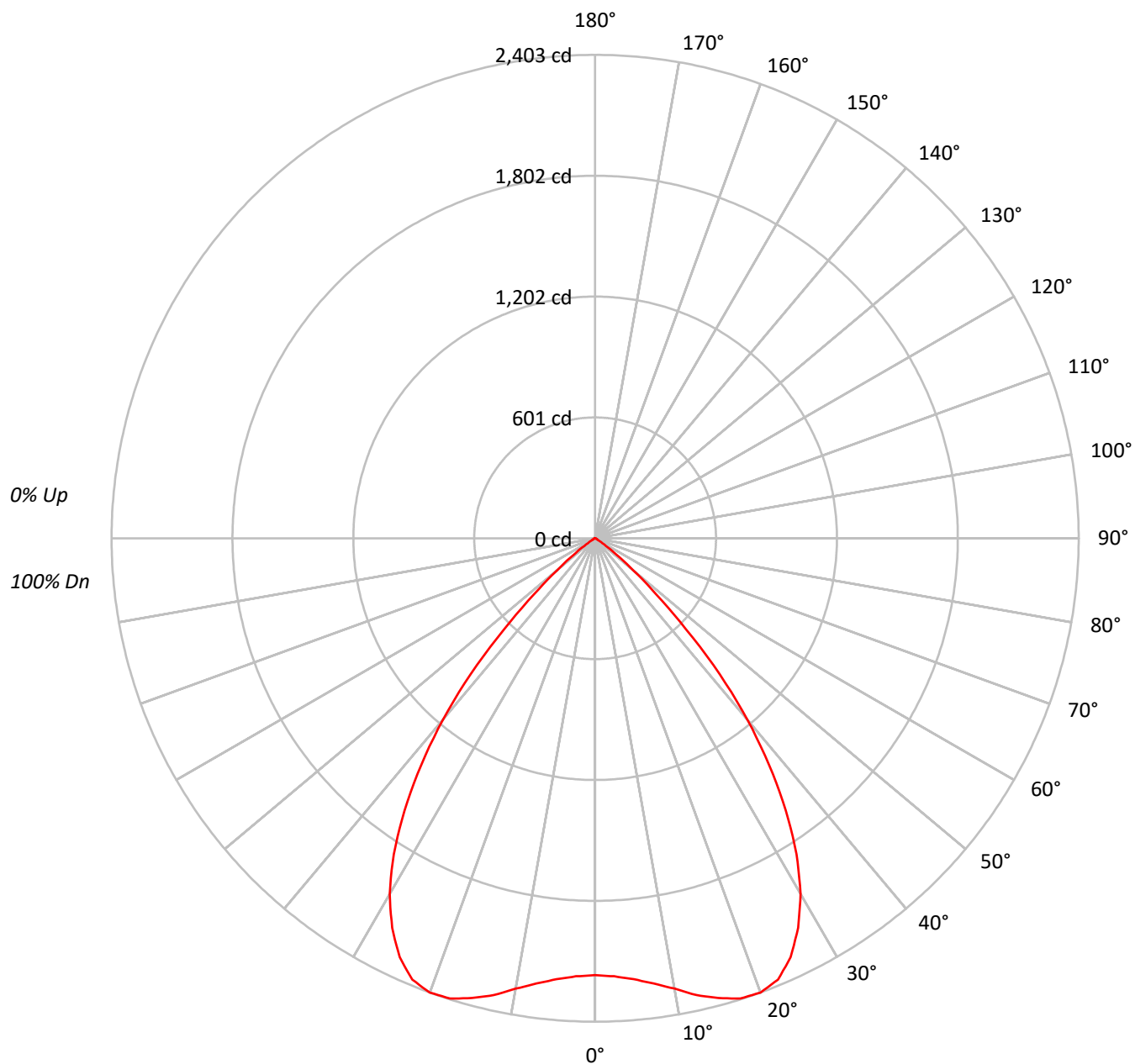
Lumens per Lamp: N/A  
Luminaire Lumens: 3544.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 266764 |
| 5°  | 271285 |
| 10° | 283554 |
| 15° | 300963 |
| 20° | 314137 |
| 25° | 311421 |
| 30° | 289605 |
| 35° | 247761 |
| 40° | 188760 |
| 45° | 110725 |
| 50° | 47304  |
| 55° | 13922  |
| 60° | 4005   |
| 65° | 2355   |
| 70° | 1473   |
| 75° | 1946   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 212.3  | 6.0       |
| 10°-20°   | 670.1  | 18.9      |
| 20°-30°   | 1045.4 | 29.5      |
| 30°-40°   | 1017.2 | 28.7      |
| 40°-50°   | 508.1  | 14.3      |
| 50°-60°   | 78.6   | 2.2       |
| 60°-70°   | 9.5    | 0.3       |
| 70°-80°   | 2.7    | 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°    | 1927.9 | 54.4      |
| 0°-40°    | 2945.1 | 83.1      |
| 0°-60°    | 3531.8 | 99.7      |
| 0°-90°    | 3544.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3544.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2171 |      |
| 5°  | 2200 | 212  |
| 15° | 2366 | 670  |
| 25° | 2297 | 1045 |
| 35° | 1652 | 1017 |
| 45° | 637  | 508  |
| 55° | 65   | 79   |
| 65° | 8    | 10   |
| 75° | 4    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2171.4 |
| 2.5°  | 2179.5 |
| 5°    | 2199.8 |
| 7.5°  | 2232.3 |
| 10°   | 2273.0 |
| 12.5° | 2325.6 |
| 15°   | 2366.3 |
| 17.5° | 2398.8 |
| 20°   | 2402.8 |
| 22.5° | 2374.4 |
| 25°   | 2297.4 |
| 27.5° | 2183.6 |
| 30°   | 2041.5 |
| 32.5° | 1863.1 |
| 35°   | 1652.0 |
| 37.5° | 1420.5 |
| 40°   | 1177.0 |
| 42.5° | 917.3  |
| 45°   | 637.3  |
| 47.5° | 409.9  |
| 50°   | 247.5  |
| 52.5° | 133.9  |
| 55°   | 65.0   |
| 57.5° | 28.4   |
| 60°   | 16.3   |
| 62.5° | 12.2   |
| 65°   | 8.1    |
| 67.5° | 8.1    |
| 70°   | 4.1    |
| 72.5° | 4.1    |
| 75°   | 4.1    |
| 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)