

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: P577328

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-40-D010 FEU6C-X-90-40 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

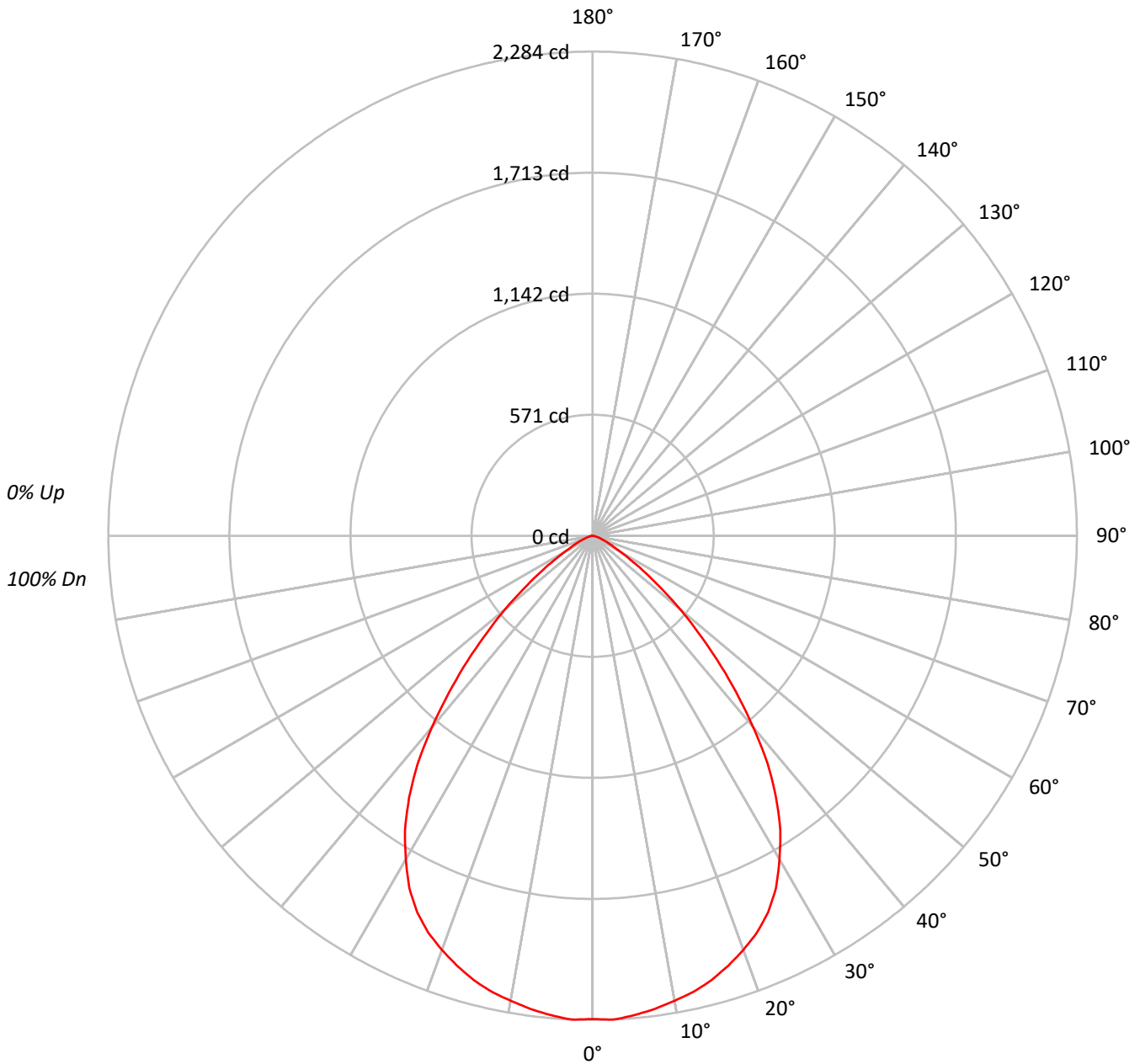
Lumens per Lamp: N/A  
Luminaire Lumens: 3695.9 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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 |    |    | 100 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |    |    | 73  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    | 65  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 66  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |    |    | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 53  |    |    | 53  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 62  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    | 44  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 51  | 46  | 42  | 41  |    |    | 41  |
| 10  | 62  | 51  | 44  | 40  | 61  | 50  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |    |    | 38  |

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

|     | 0°     |
|-----|--------|
| 0°  | 124968 |
| 5°  | 124923 |
| 10° | 123962 |
| 15° | 123128 |
| 20° | 121256 |
| 25° | 118483 |
| 30° | 111561 |
| 35° | 100960 |
| 40° | 84308  |
| 45° | 64596  |
| 50° | 45747  |
| 55° | 28845  |
| 60° | 16271  |
| 65° | 10559  |
| 70° | 6892   |
| 75° | 5062   |
| 80° | 3031   |
| 85° | 3019   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 215.3  | 5.8       |
| 10°-20°   | 610.9  | 16.5      |
| 20°-30°   | 895.8  | 24.2      |
| 30°-40°   | 932.3  | 25.2      |
| 40°-50°   | 645.0  | 17.5      |
| 50°-60°   | 280.8  | 7.6       |
| 60°-70°   | 86.1   | 2.3       |
| 70°-80°   | 25.8   | 0.7       |
| 80°-90°   | 3.9    | 0.1       |
| 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°    | 1722.0 | 46.6      |
| 0°-40°    | 2654.3 | 71.8      |
| 0°-60°    | 3580.1 | 96.9      |
| 0°-90°    | 3695.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3695.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2280 |      |
| 5°  | 2270 | 215  |
| 15° | 2170 | 611  |
| 25° | 1959 | 896  |
| 35° | 1509 | 932  |
| 45° | 833  | 645  |
| 55° | 302  | 281  |
| 65° | 81   | 86   |
| 75° | 24   | 26   |
| 85° | 5    | 4    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2279.6 |
| 2.5°  | 2284.4 |
| 5°    | 2270.1 |
| 7.5°  | 2251.0 |
| 10°   | 2226.9 |
| 12.5° | 2202.9 |
| 15°   | 2169.5 |
| 17.5° | 2126.3 |
| 20°   | 2078.5 |
| 22.5° | 2025.8 |
| 25°   | 1958.8 |
| 27.5° | 1872.6 |
| 30°   | 1762.4 |
| 32.5° | 1647.4 |
| 35°   | 1508.6 |
| 37.5° | 1355.4 |
| 40°   | 1178.1 |
| 42.5° | 1000.9 |
| 45°   | 833.2  |
| 47.5° | 675.2  |
| 50°   | 536.4  |
| 52.5° | 407.2  |
| 55°   | 301.8  |
| 57.5° | 215.5  |
| 60°   | 148.4  |
| 62.5° | 110.2  |
| 65°   | 81.4   |
| 67.5° | 62.3   |
| 70°   | 43.0   |
| 72.5° | 33.6   |
| 75°   | 23.9   |
| 77.5° | 14.3   |
| 80°   | 9.6    |
| 82.5° | 4.8    |
| 85°   | 4.8    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)