

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: P698054

Luminaire Tested: **MRI-FEU6C-20-L950 F6X-N-X-H**

Issue Date: 08/03/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P698054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 08/03/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-FEU6C-20-L950 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

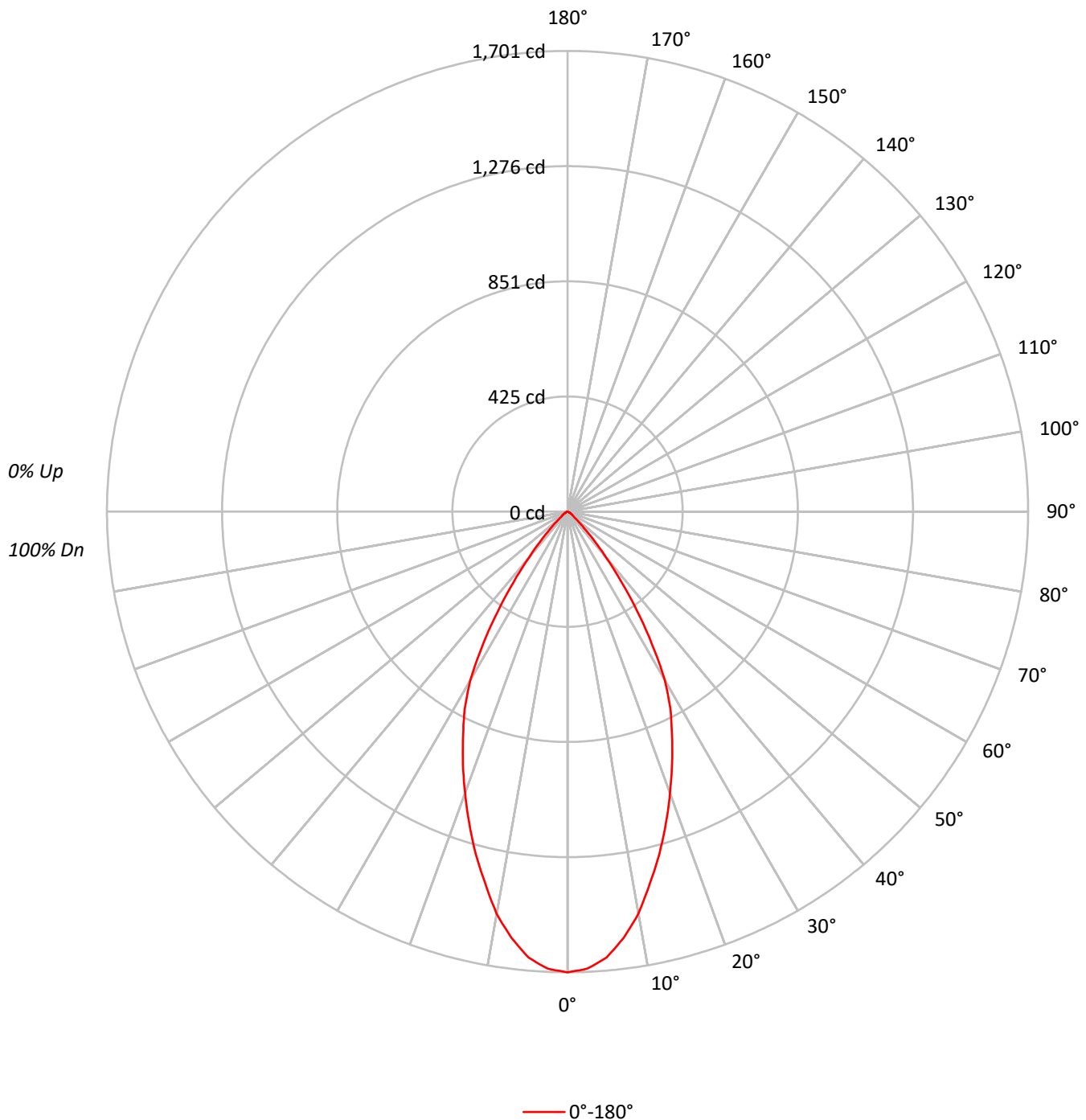
Lumens per Lamp: N/A  
Luminaire Lumens: 1326.9 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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  |  | 0   |     |     |     |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 113 | 111 | 108 | 106 |  | 111 | 109 | 106 | 104 |  | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  | 93  |
| 2   | 108 | 103 | 99  | 96  |  | 106 | 101 | 98  | 94  |  | 98  | 95  | 92  |  | 95  | 93  | 90  |  | 92  | 90  | 89  | 87  |
| 3   | 102 | 96  | 91  | 87  |  | 100 | 95  | 90  | 86  |  | 92  | 88  | 85  |  | 90  | 86  | 84  |  | 87  | 85  | 82  | 81  |
| 4   | 97  | 90  | 84  | 80  |  | 95  | 89  | 83  | 79  |  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 83  | 79  | 77  | 75  |
| 5   | 92  | 84  | 78  | 74  |  | 91  | 83  | 78  | 73  |  | 81  | 76  | 73  |  | 80  | 75  | 72  |  | 78  | 74  | 72  | 70  |
| 6   | 88  | 79  | 73  | 69  |  | 86  | 78  | 72  | 68  |  | 77  | 72  | 68  |  | 75  | 71  | 67  |  | 74  | 70  | 67  | 65  |
| 7   | 83  | 74  | 68  | 64  |  | 82  | 73  | 68  | 64  |  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  | 66  | 63  | 61  |
| 8   | 79  | 70  | 64  | 60  |  | 78  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  | 63  | 59  |  | 66  | 62  | 59  | 58  |
| 9   | 76  | 66  | 60  | 56  |  | 75  | 66  | 60  | 56  |  | 65  | 59  | 56  |  | 64  | 59  | 56  |  | 63  | 59  | 55  | 54  |
| 10  | 72  | 62  | 57  | 53  |  | 71  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  | 56  | 52  |  | 60  | 55  | 52  | 51  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 93255 |
| 5°  | 90947 |
| 10° | 83916 |
| 15° | 74297 |
| 20° | 64511 |
| 25° | 55177 |
| 30° | 45488 |
| 35° | 29955 |
| 40° | 16102 |
| 45° | 7133  |
| 50° | 2891  |
| 55° | 2084  |
| 60° | 1327  |
| 65° | 947   |
| 70° | 785   |
| 75° | 508   |
| 80° | 758   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.0  | 11.5      |
| 10°-20°   | 364.8  | 27.5      |
| 20°-30°   | 417.9  | 31.5      |
| 30°-40°   | 280.8  | 21.2      |
| 40°-50°   | 80.2   | 6.0       |
| 50°-60°   | 19.6   | 1.5       |
| 60°-70°   | 7.5    | 0.6       |
| 70°-80°   | 2.9    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 935.7  | 70.5      |
| 0°-40°    | 1216.4 | 91.7      |
| 0°-60°    | 1316.3 | 99.2      |
| 0°-90°    | 1326.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1326.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1701 |      |
| 5°  | 1653 | 153  |
| 15° | 1309 | 365  |
| 25° | 912  | 418  |
| 35° | 448  | 281  |
| 45° | 92   | 80   |
| 55° | 22   | 20   |
| 65° | 7    | 7    |
| 75° | 2    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1701.1 |
| 2.5°  | 1689.0 |
| 5°    | 1652.7 |
| 7.5°  | 1587.3 |
| 10°   | 1507.5 |
| 12.5° | 1405.8 |
| 15°   | 1309.1 |
| 17.5° | 1207.5 |
| 20°   | 1105.8 |
| 22.5° | 1009.0 |
| 25°   | 912.2  |
| 27.5° | 822.7  |
| 30°   | 718.6  |
| 32.5° | 580.7  |
| 35°   | 447.6  |
| 37.5° | 326.6  |
| 40°   | 225.0  |
| 42.5° | 147.6  |
| 45°   | 92.0   |
| 47.5° | 55.6   |
| 50°   | 33.9   |
| 52.5° | 26.6   |
| 55°   | 21.8   |
| 57.5° | 16.9   |
| 60°   | 12.1   |
| 62.5° | 9.6    |
| 65°   | 7.3    |
| 67.5° | 4.9    |
| 70°   | 4.9    |
| 72.5° | 2.4    |
| 75°   | 2.4    |
| 77.5° | 2.4    |
| 80°   | 2.4    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)