

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: P698454

Luminaire Tested: **MRI-FEU6C-30-L930 F6X-M-X-H**

Issue Date: 08/03/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P698454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 08/03/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-FEU6C-30-L930 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM  
Light Source: -  
Ballast/Driver: -

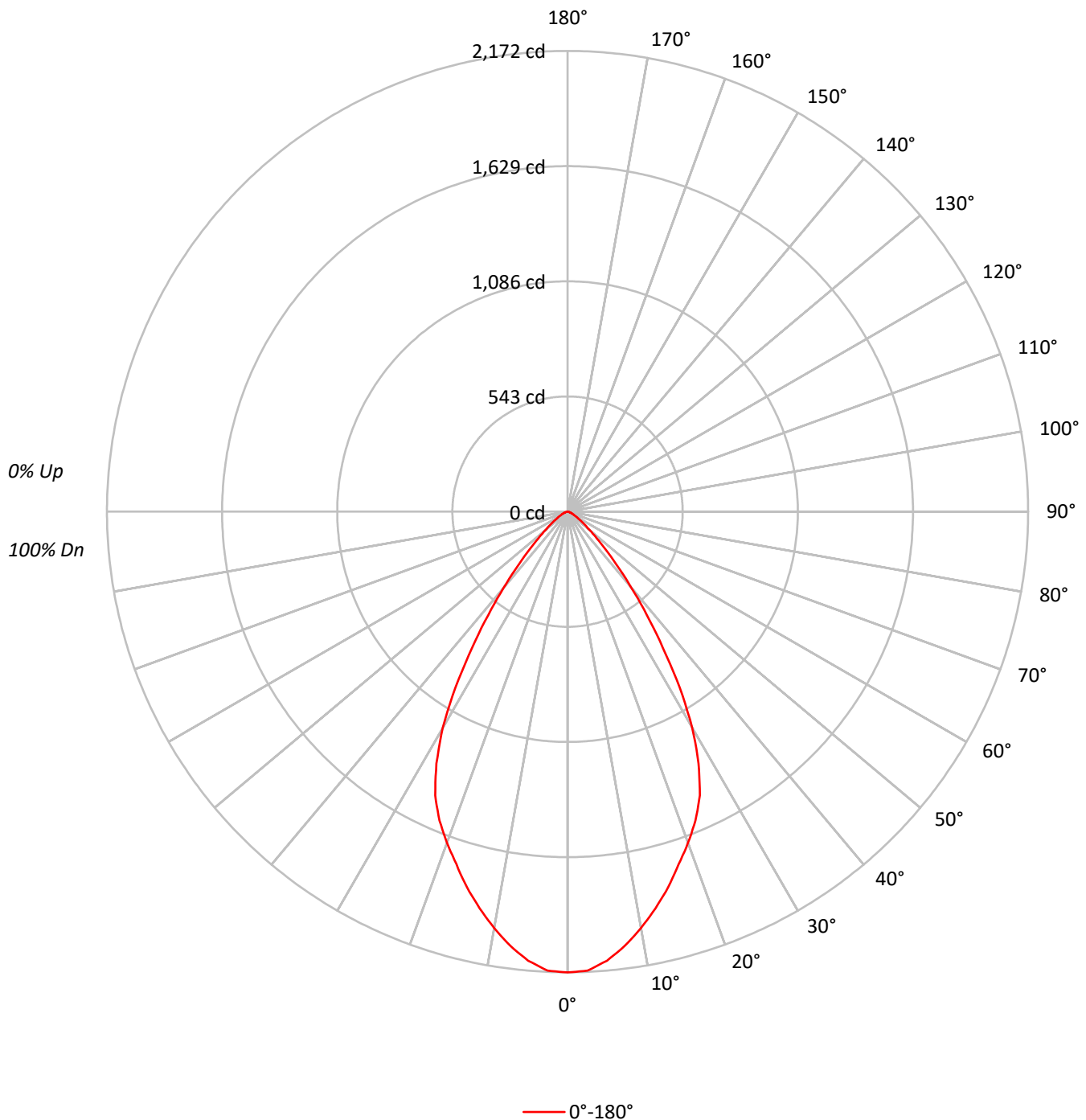
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2195.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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  |
| 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   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 97  | 93  | 105 | 100 | 96  | 92  | 97  | 93  | 90  |  | 94  | 91  | 88  |  | 91  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 88  | 84  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 85  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 80  |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  |
| 6   | 85  | 75  | 69  | 64  | 83  | 75  | 69  | 64  | 73  | 68  | 64  |  | 72  | 67  | 63  |  | 70  |
| 7   | 80  | 70  | 64  | 59  | 79  | 70  | 64  | 59  | 68  | 63  | 59  |  | 67  | 62  | 59  |  | 66  |
| 8   | 76  | 66  | 60  | 55  | 75  | 65  | 59  | 55  | 64  | 59  | 55  |  | 63  | 58  | 55  |  | 62  |
| 9   | 72  | 62  | 56  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  |  | 60  | 55  | 51  |  | 59  |
| 10  | 69  | 58  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 56  | 51  | 48  |  | 55  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 119086 |
| 5°  | 116954 |
| 10° | 110975 |
| 15° | 104070 |
| 20° | 96918  |
| 25° | 89304  |
| 30° | 74410  |
| 35° | 52441  |
| 40° | 33420  |
| 45° | 19932  |
| 50° | 11761  |
| 55° | 7484   |
| 60° | 5153   |
| 65° | 3658   |
| 70° | 2516   |
| 75° | 1991   |
| 80° | 979    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 198.6  | 9.0       |
| 10°-20°   | 513.8  | 23.4      |
| 20°-30°   | 665.8  | 30.3      |
| 30°-40°   | 494.3  | 22.5      |
| 40°-50°   | 208.7  | 9.5       |
| 50°-60°   | 74.1   | 3.4       |
| 60°-70°   | 28.6   | 1.3       |
| 70°-80°   | 9.9    | 0.5       |
| 80°-90°   | 1.3    | 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°    | 1378.2 | 62.8      |
| 0°-40°    | 1872.5 | 85.3      |
| 0°-60°    | 2155.2 | 98.2      |
| 0°-90°    | 2195.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2195.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2172 |      |
| 5°  | 2125 | 199  |
| 15° | 1834 | 514  |
| 25° | 1476 | 666  |
| 35° | 784  | 494  |
| 45° | 257  | 209  |
| 55° | 78   | 74   |
| 65° | 28   | 29   |
| 75° | 9    | 10   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2172.3 |
| 2.5°  | 2166.0 |
| 5°    | 2125.3 |
| 7.5°  | 2065.6 |
| 10°   | 1993.6 |
| 12.5° | 1915.2 |
| 15°   | 1833.7 |
| 17.5° | 1742.9 |
| 20°   | 1661.3 |
| 22.5° | 1576.7 |
| 25°   | 1476.4 |
| 27.5° | 1338.4 |
| 30°   | 1175.5 |
| 32.5° | 984.2  |
| 35°   | 783.6  |
| 37.5° | 614.4  |
| 40°   | 467.0  |
| 42.5° | 347.9  |
| 45°   | 257.1  |
| 47.5° | 188.1  |
| 50°   | 137.9  |
| 52.5° | 103.4  |
| 55°   | 78.3   |
| 57.5° | 59.5   |
| 60°   | 47.0   |
| 62.5° | 34.5   |
| 65°   | 28.2   |
| 67.5° | 21.9   |
| 70°   | 15.7   |
| 72.5° | 12.5   |
| 75°   | 9.4    |
| 77.5° | 6.3    |
| 80°   | 3.1    |
| 82.5° | 3.1    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)