

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: P708805

Luminaire Tested: **22APR-26L940-X-UNV**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708805  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-26L940-X-UNV  
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

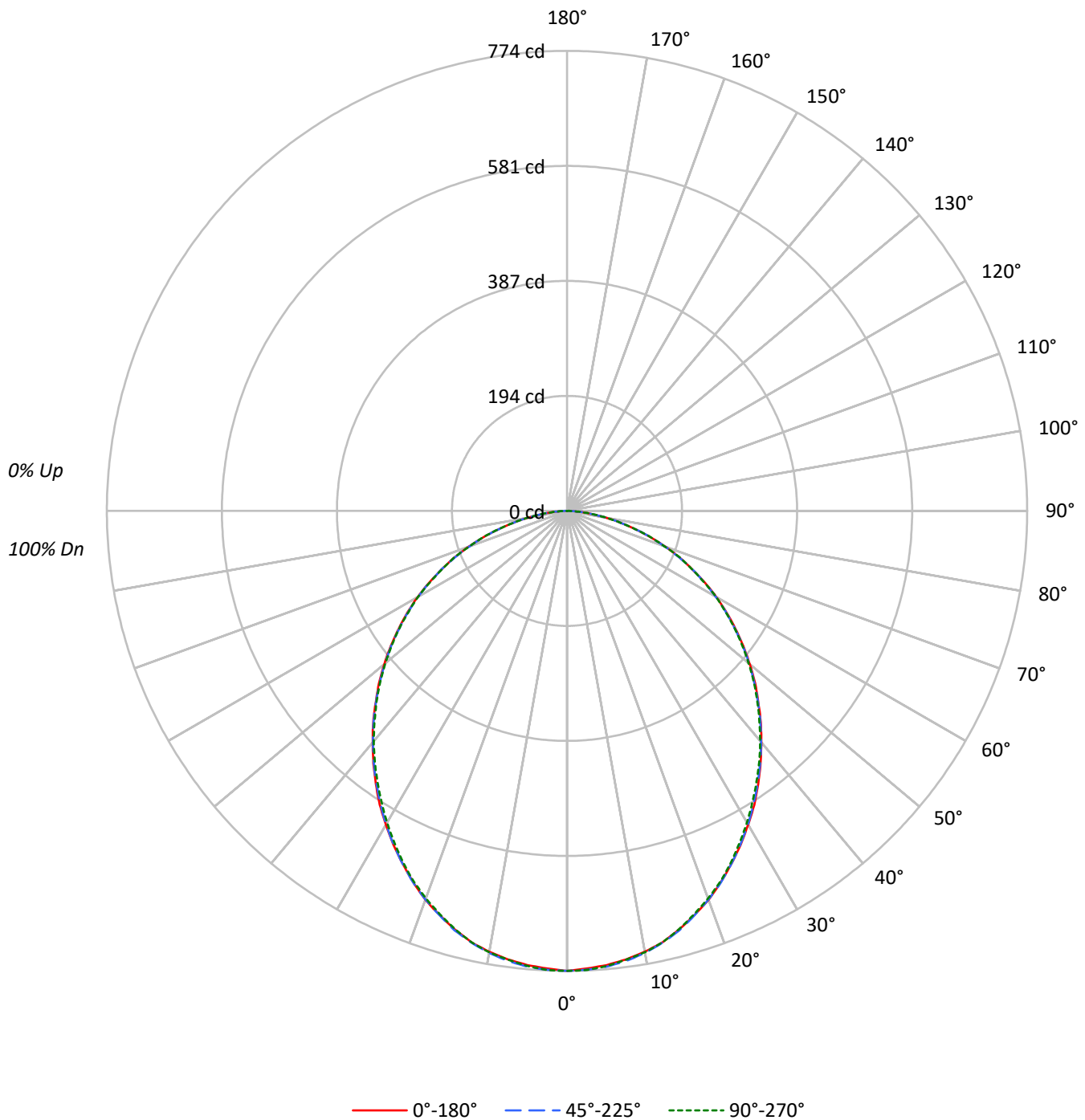
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1977.1 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.7  
Input Voltage (V): 120  
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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  |  | 83  | 78  | 74  |  | 80  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 68  | 63  |  | 71  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 54  | 48  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 57  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 47  | 42  |  | 53  | 47  | 42  |  | 52  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  |  | 49  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  |  | 45  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2083 | 2083 | 2083 |
| 5°  | 2072 | 2079 | 2076 |
| 10° | 2058 | 2064 | 2061 |
| 15° | 2031 | 2035 | 2029 |
| 20° | 1994 | 1993 | 1987 |
| 25° | 1944 | 1944 | 1938 |
| 30° | 1893 | 1891 | 1881 |
| 35° | 1842 | 1836 | 1826 |
| 40° | 1786 | 1783 | 1776 |
| 45° | 1731 | 1729 | 1723 |
| 50° | 1680 | 1674 | 1669 |
| 55° | 1622 | 1615 | 1615 |
| 60° | 1562 | 1556 | 1559 |
| 65° | 1480 | 1484 | 1473 |
| 70° | 1383 | 1375 | 1375 |
| 75° | 1233 | 1239 | 1239 |
| 80° | 1043 | 1043 | 1052 |
| 85° | 794  | 794  | 809  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.0   | 3.7       |
| 10°-20°   | 205.6  | 10.4      |
| 20°-30°   | 301.5  | 15.2      |
| 30°-40°   | 349.7  | 17.7      |
| 40°-50°   | 350.7  | 17.7      |
| 50°-60°   | 308.4  | 15.6      |
| 60°-70°   | 230.2  | 11.6      |
| 70°-80°   | 126.7  | 6.4       |
| 80°-90°   | 31.4   | 1.6       |
| 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°    | 580.1  | 29.3      |
| 0°-40°    | 929.8  | 47.0      |
| 0°-60°    | 1588.9 | 80.4      |
| 0°-90°    | 1977.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1977.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 774 | 774   | 774 | 774   | 774 |      |
| 5°  | 767 | 770   | 770 | 770   | 768 | 73   |
| 15° | 729 | 732   | 731 | 730   | 728 | 205  |
| 25° | 655 | 657   | 655 | 654   | 653 | 302  |
| 35° | 561 | 561   | 559 | 557   | 556 | 351  |
| 45° | 455 | 456   | 454 | 454   | 453 | 352  |
| 55° | 346 | 346   | 344 | 345   | 344 | 309  |
| 65° | 232 | 232   | 233 | 232   | 231 | 230  |
| 75° | 119 | 119   | 119 | 118   | 119 | 127  |
| 85° | 26  | 26    | 26  | 26    | 26  | 31   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 773.9 | 773.9 | 773.9 | 773.9 | 773.9 |
| 2.5°  | 770.7 | 773.3 | 772.8 | 774.4 | 773.3 |
| 5°    | 766.9 | 769.6 | 769.6 | 769.6 | 768.5 |
| 7.5°  | 761.0 | 763.7 | 763.7 | 763.7 | 761.6 |
| 10°   | 753.0 | 755.7 | 755.2 | 755.2 | 754.1 |
| 12.5° | 743.4 | 745.0 | 743.9 | 743.9 | 743.4 |
| 15°   | 729.0 | 732.2 | 730.6 | 729.5 | 728.4 |
| 17.5° | 712.9 | 716.2 | 713.5 | 712.9 | 711.3 |
| 20°   | 696.4 | 698.5 | 695.8 | 695.8 | 693.7 |
| 22.5° | 676.1 | 678.2 | 676.6 | 675.5 | 674.5 |
| 25°   | 654.7 | 657.4 | 654.7 | 654.2 | 652.6 |
| 27.5° | 632.8 | 634.9 | 632.2 | 630.1 | 629.0 |
| 30°   | 609.3 | 610.9 | 608.7 | 607.1 | 605.5 |
| 32.5° | 586.3 | 586.3 | 584.1 | 582.5 | 580.4 |
| 35°   | 560.6 | 561.2 | 559.0 | 557.4 | 555.8 |
| 37.5° | 535.0 | 536.0 | 533.9 | 532.3 | 531.2 |
| 40°   | 508.3 | 509.3 | 507.7 | 506.1 | 505.6 |
| 42.5° | 482.6 | 482.6 | 481.5 | 479.9 | 478.9 |
| 45°   | 454.8 | 456.4 | 454.3 | 453.7 | 452.7 |
| 47.5° | 429.2 | 429.2 | 427.0 | 426.0 | 426.0 |
| 50°   | 401.4 | 402.4 | 399.8 | 399.2 | 398.7 |
| 52.5° | 373.6 | 373.0 | 372.5 | 372.0 | 371.4 |
| 55°   | 345.8 | 346.3 | 344.2 | 344.7 | 344.2 |
| 57.5° | 318.0 | 317.5 | 316.9 | 316.4 | 315.9 |
| 60°   | 290.2 | 289.7 | 289.1 | 288.6 | 289.7 |
| 62.5° | 261.3 | 261.9 | 260.3 | 261.9 | 259.7 |
| 65°   | 232.5 | 232.5 | 233.0 | 231.9 | 231.4 |
| 67.5° | 204.7 | 204.7 | 203.6 | 203.6 | 205.8 |
| 70°   | 175.8 | 176.4 | 174.8 | 176.9 | 174.8 |
| 72.5° | 147.5 | 148.0 | 147.5 | 147.0 | 148.0 |
| 75°   | 118.6 | 119.2 | 119.2 | 118.1 | 119.2 |
| 77.5° | 92.5  | 93.0  | 92.5  | 91.9  | 92.5  |
| 80°   | 67.3  | 67.9  | 67.3  | 66.8  | 67.9  |
| 82.5° | 44.9  | 45.4  | 44.9  | 44.9  | 45.4  |
| 85°   | 25.7  | 26.2  | 25.7  | 25.7  | 26.2  |
| 87.5° | 10.2  | 10.7  | 10.7  | 10.7  | 10.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)