

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974458

Luminaire Tested: FLR2-24-30-L950-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-30-L950-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L950-CP125  
Ballast/Driver: -

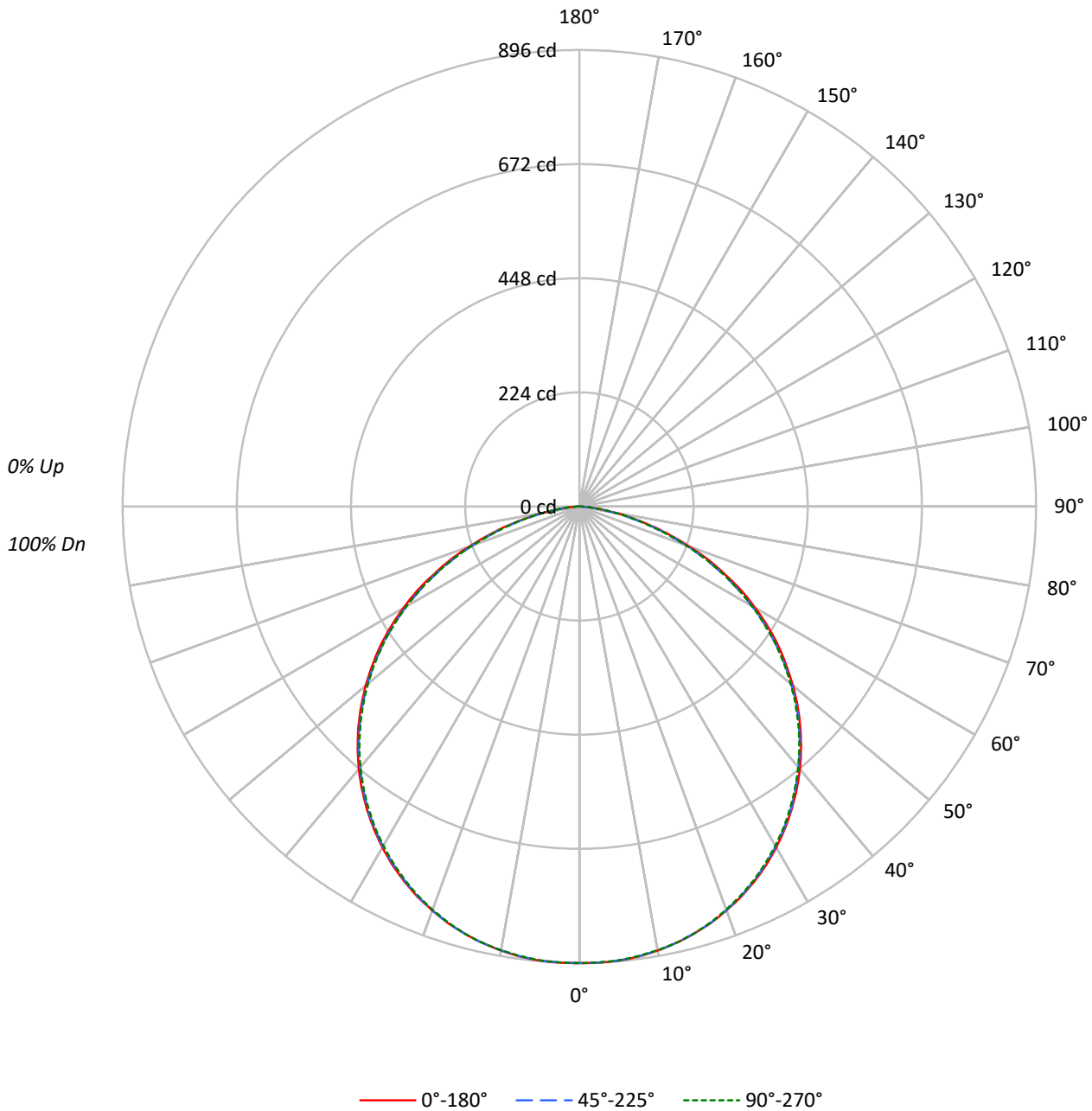
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2533.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 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 | 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   | 109 | 105 | 100 | 97  | 106 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |    |    |    |    | 71  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 70  | 66  | 62  | 60  |    |    |    |    | 60  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 57  | 53  | 51  |    |    |    |    | 51  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 46  | 44  |    |    |    |    | 44  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 38  |    |    |    |    | 38  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |    |    |    |    | 34  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 30  |    |    |    |    | 30  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 34  | 29  | 41  | 34  | 29  | 39  | 33  | 29  | 27  |    |    |    |    | 27  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 38  | 31  | 26  | 37  | 31  | 26  | 25  |    |    |    |    | 25  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1206 | 1206 | 1206 |
| 5°  | 1209 | 1209 | 1208 |
| 10° | 1209 | 1209 | 1208 |
| 15° | 1210 | 1209 | 1209 |
| 20° | 1208 | 1208 | 1206 |
| 25° | 1206 | 1204 | 1202 |
| 30° | 1201 | 1197 | 1195 |
| 35° | 1193 | 1190 | 1185 |
| 40° | 1182 | 1175 | 1173 |
| 45° | 1167 | 1160 | 1157 |
| 50° | 1145 | 1136 | 1133 |
| 55° | 1118 | 1102 | 1101 |
| 60° | 1072 | 1052 | 1052 |
| 65° | 1003 | 979  | 982  |
| 70° | 902  | 874  | 872  |
| 75° | 757  | 727  | 724  |
| 80° | 553  | 526  | 549  |
| 85° | 313  | 289  | 293  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1167 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.1   | 3.4       |
| 10°-20°   | 245.1  | 9.7       |
| 20°-30°   | 373.7  | 14.8      |
| 30°-40°   | 452.8  | 17.9      |
| 40°-50°   | 470.3  | 18.6      |
| 50°-60°   | 420.7  | 16.6      |
| 60°-70°   | 306.6  | 12.1      |
| 70°-80°   | 151.9  | 6.0       |
| 80°-90°   | 27.2   | 1.1       |
| 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°    | 703.9  | 27.8      |
| 0°-40°    | 1156.7 | 45.7      |
| 0°-60°    | 2047.8 | 80.8      |
| 0°-90°    | 2533.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2533.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 896 | 896   | 896 | 896   | 896 |      |
| 5°  | 895 | 895   | 895 | 895   | 894 | 85   |
| 15° | 868 | 868   | 868 | 869   | 868 | 245  |
| 25° | 812 | 812   | 811 | 810   | 810 | 374  |
| 35° | 726 | 725   | 724 | 723   | 722 | 454  |
| 45° | 613 | 612   | 610 | 608   | 608 | 473  |
| 55° | 477 | 473   | 470 | 470   | 469 | 425  |
| 65° | 315 | 312   | 308 | 309   | 308 | 312  |
| 75° | 146 | 143   | 140 | 142   | 139 | 155  |
| 85° | 20  | 19    | 19  | 19    | 19  | 28   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 896.4 | 896.4 | 896.4 | 896.4 | 896.4 |
| 2.5°  | 896.4 | 896.0 | 896.0 | 896.4 | 895.7 |
| 5°    | 894.8 | 895.1 | 894.8 | 894.8 | 894.1 |
| 7.5°  | 891.2 | 890.9 | 890.6 | 890.9 | 889.9 |
| 10°   | 885.1 | 885.1 | 884.8 | 885.1 | 884.5 |
| 12.5° | 877.7 | 877.7 | 877.7 | 878.0 | 877.7 |
| 15°   | 868.4 | 868.1 | 868.1 | 868.7 | 868.1 |
| 17.5° | 857.5 | 857.1 | 857.1 | 856.8 | 856.2 |
| 20°   | 843.9 | 843.9 | 843.6 | 843.3 | 842.3 |
| 22.5° | 829.5 | 829.1 | 828.2 | 828.2 | 826.9 |
| 25°   | 812.4 | 811.5 | 810.8 | 810.5 | 809.5 |
| 27.5° | 793.8 | 792.5 | 791.5 | 790.9 | 789.9 |
| 30°   | 772.9 | 771.6 | 770.6 | 769.6 | 769.0 |
| 32.5° | 750.3 | 749.7 | 748.1 | 747.8 | 746.5 |
| 35°   | 726.2 | 725.3 | 724.3 | 723.0 | 721.7 |
| 37.5° | 700.5 | 699.5 | 697.3 | 696.6 | 695.7 |
| 40°   | 673.2 | 671.9 | 669.0 | 669.0 | 668.0 |
| 42.5° | 643.9 | 642.6 | 640.7 | 639.4 | 638.7 |
| 45°   | 613.3 | 612.1 | 609.8 | 608.5 | 607.9 |
| 47.5° | 580.9 | 579.9 | 577.3 | 576.4 | 575.4 |
| 50°   | 547.1 | 545.8 | 542.9 | 542.3 | 541.3 |
| 52.5° | 511.7 | 511.1 | 507.2 | 506.9 | 505.9 |
| 55°   | 476.6 | 473.1 | 469.9 | 469.9 | 469.3 |
| 57.5° | 438.1 | 435.5 | 431.3 | 431.3 | 430.7 |
| 60°   | 398.2 | 395.9 | 391.1 | 391.7 | 391.1 |
| 62.5° | 359.3 | 354.4 | 349.9 | 351.9 | 350.2 |
| 65°   | 314.9 | 312.3 | 307.5 | 308.8 | 308.4 |
| 67.5° | 274.3 | 269.5 | 265.0 | 267.6 | 266.3 |
| 70°   | 229.3 | 226.7 | 222.2 | 224.8 | 221.6 |
| 72.5° | 186.9 | 184.6 | 180.1 | 183.0 | 179.8 |
| 75°   | 145.7 | 143.4 | 139.9 | 142.5 | 139.3 |
| 77.5° | 106.8 | 105.2 | 102.0 | 104.5 | 105.2 |
| 80°   | 71.4  | 69.5  | 67.9  | 70.1  | 70.8  |
| 82.5° | 41.8  | 40.5  | 39.9  | 40.2  | 41.8  |
| 85°   | 20.3  | 18.7  | 18.7  | 19.0  | 19.0  |
| 87.5° | 5.5   | 4.8   | 5.5   | 5.8   | 6.1   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)