

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: P973326

Luminaire Tested: FLR2-14-42HE-L950-CA125

Issue Date: 3/13/2025

**Test Information**

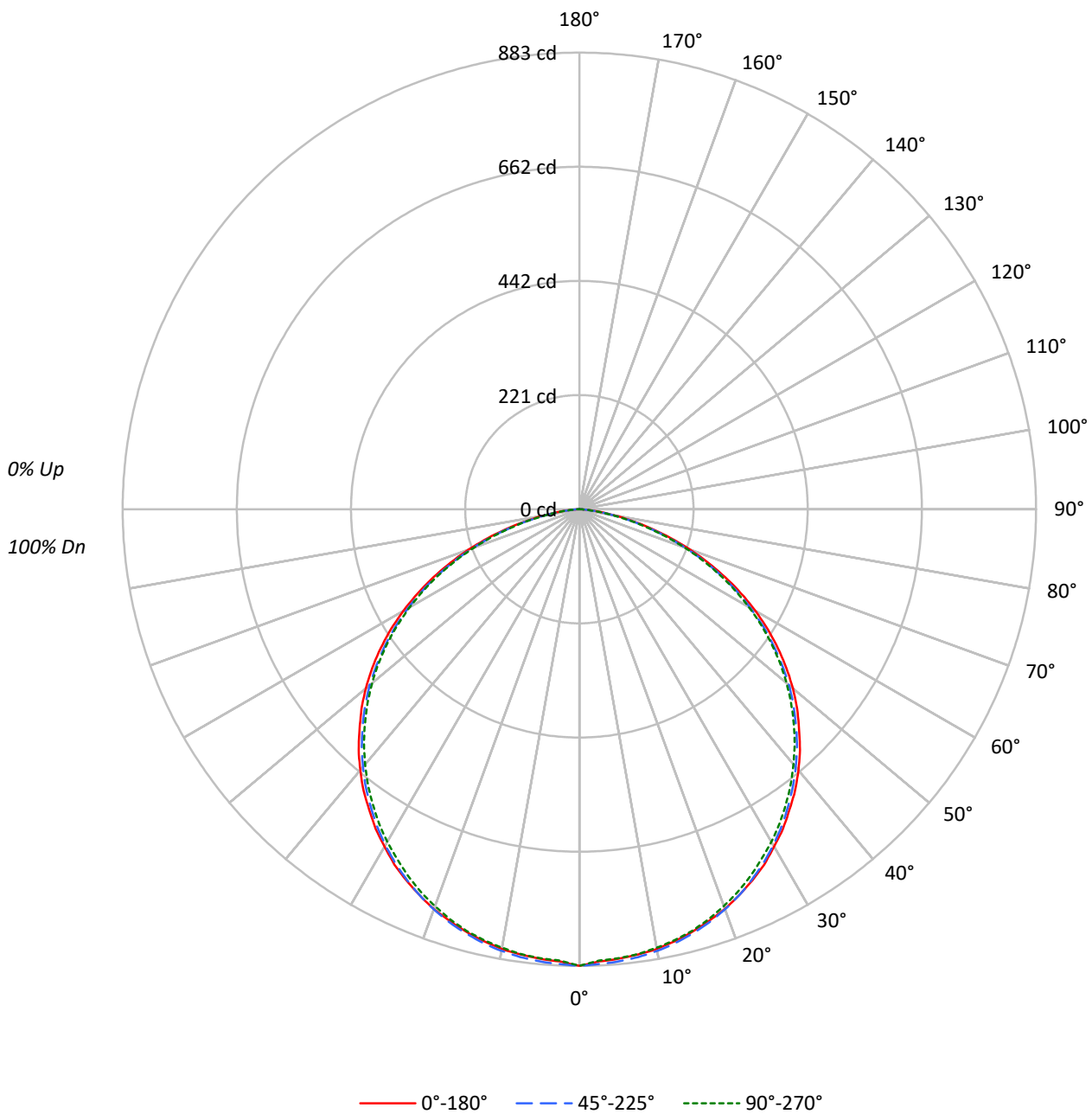
Test Method: LM-79-2019  
Report Number: P973326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42HE-L950-CA125  
Description: 1\*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Arylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2471.2 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.9  
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  |     |     |     | 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 99  | 91  | 85  | 79  | 97  | 90  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 70  | 66  | 62  | 60  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 30  |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2376 | 2376 | 2376 |
| 5°  | 2357 | 2371 | 2354 |
| 10° | 2360 | 2370 | 2353 |
| 15° | 2356 | 2365 | 2351 |
| 20° | 2356 | 2358 | 2339 |
| 25° | 2350 | 2346 | 2324 |
| 30° | 2340 | 2330 | 2307 |
| 35° | 2328 | 2310 | 2287 |
| 40° | 2315 | 2286 | 2263 |
| 45° | 2286 | 2254 | 2231 |
| 50° | 2256 | 2215 | 2189 |
| 55° | 2200 | 2148 | 2128 |
| 60° | 2115 | 2055 | 2038 |
| 65° | 1980 | 1922 | 1901 |
| 70° | 1785 | 1714 | 1699 |
| 75° | 1497 | 1421 | 1406 |
| 80° | 1088 | 1013 | 986  |
| 85° | 574  | 506  | 463  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2286 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.6   | 3.4       |
| 10°-20°   | 240.2  | 9.7       |
| 20°-30°   | 364.9  | 14.8      |
| 30°-40°   | 441.4  | 17.9      |
| 40°-50°   | 458.7  | 18.6      |
| 50°-60°   | 410.7  | 16.6      |
| 60°-70°   | 299.6  | 12.1      |
| 70°-80°   | 147.5  | 6.0       |
| 80°-90°   | 24.7   | 1.0       |
| 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°    | 688.7  | 27.9      |
| 0°-40°    | 1130.0 | 45.7      |
| 0°-60°    | 1999.5 | 80.9      |
| 0°-90°    | 2471.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2471.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 883 | 883   | 883 | 883   | 883 |      |
| 5°  | 873 | 882   | 878 | 886   | 872 | 83   |
| 15° | 846 | 853   | 849 | 856   | 844 | 239  |
| 25° | 792 | 796   | 790 | 794   | 783 | 365  |
| 35° | 709 | 710   | 703 | 706   | 696 | 444  |
| 45° | 601 | 600   | 592 | 594   | 586 | 464  |
| 55° | 469 | 465   | 458 | 457   | 454 | 419  |
| 65° | 311 | 307   | 302 | 300   | 299 | 307  |
| 75° | 144 | 141   | 137 | 135   | 135 | 154  |
| 85° | 19  | 18    | 16  | 15    | 15  | 27   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 882.9 | 882.9 | 882.9 | 882.9 | 882.9 |
| 2.5°  | 875.3 | 885.1 | 880.4 | 889.1 | 873.4 |
| 5°    | 872.7 | 882.2 | 877.8 | 886.2 | 871.6 |
| 7.5°  | 868.3 | 878.2 | 873.4 | 881.5 | 867.6 |
| 10°   | 863.6 | 872.3 | 867.2 | 875.3 | 861.0 |
| 12.5° | 855.2 | 863.9 | 859.2 | 866.5 | 853.3 |
| 15°   | 845.7 | 853.3 | 848.9 | 856.3 | 843.8 |
| 17.5° | 834.7 | 842.0 | 837.3 | 843.8 | 831.4 |
| 20°   | 822.6 | 828.5 | 823.4 | 828.8 | 816.8 |
| 22.5° | 807.7 | 813.1 | 807.7 | 811.3 | 800.7 |
| 25°   | 791.6 | 795.6 | 790.1 | 793.8 | 782.8 |
| 27.5° | 774.4 | 776.6 | 771.1 | 774.0 | 762.7 |
| 30°   | 753.2 | 755.8 | 749.9 | 753.6 | 742.6 |
| 32.5° | 732.7 | 734.2 | 727.6 | 730.5 | 720.7 |
| 35°   | 708.6 | 710.1 | 703.1 | 706.1 | 696.2 |
| 37.5° | 685.6 | 685.2 | 677.9 | 679.7 | 671.3 |
| 40°   | 658.9 | 658.5 | 650.9 | 652.3 | 644.3 |
| 42.5° | 631.5 | 630.0 | 622.7 | 623.5 | 616.2 |
| 45°   | 600.8 | 600.1 | 592.4 | 593.5 | 586.2 |
| 47.5° | 571.2 | 569.0 | 561.3 | 561.7 | 555.5 |
| 50°   | 539.0 | 535.8 | 529.2 | 528.4 | 523.0 |
| 52.5° | 504.7 | 501.0 | 493.7 | 493.0 | 489.0 |
| 55°   | 468.9 | 464.9 | 457.9 | 456.8 | 453.5 |
| 57.5° | 432.0 | 426.8 | 421.4 | 419.2 | 416.6 |
| 60°   | 392.9 | 388.1 | 381.9 | 379.7 | 378.6 |
| 62.5° | 352.3 | 347.5 | 342.8 | 340.6 | 339.1 |
| 65°   | 311.0 | 307.3 | 301.9 | 299.7 | 298.6 |
| 67.5° | 269.0 | 265.7 | 260.6 | 258.0 | 257.6 |
| 70°   | 226.9 | 223.7 | 217.8 | 216.3 | 216.0 |
| 72.5° | 184.9 | 182.0 | 176.5 | 175.1 | 175.1 |
| 75°   | 144.0 | 141.4 | 136.7 | 135.2 | 135.2 |
| 77.5° | 105.3 | 103.1 | 99.4  | 97.6  | 97.6  |
| 80°   | 70.2  | 68.7  | 65.4  | 64.0  | 63.6  |
| 82.5° | 40.6  | 39.8  | 36.9  | 35.4  | 36.2  |
| 85°   | 18.6  | 17.9  | 16.4  | 14.6  | 15.0  |
| 87.5° | 4.8   | 4.4   | 3.3   | 2.6   | 3.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)