

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: P973586

Luminaire Tested: FLR2-22-25-L935-CP125

Issue Date: 3/13/2025

**Test Information**

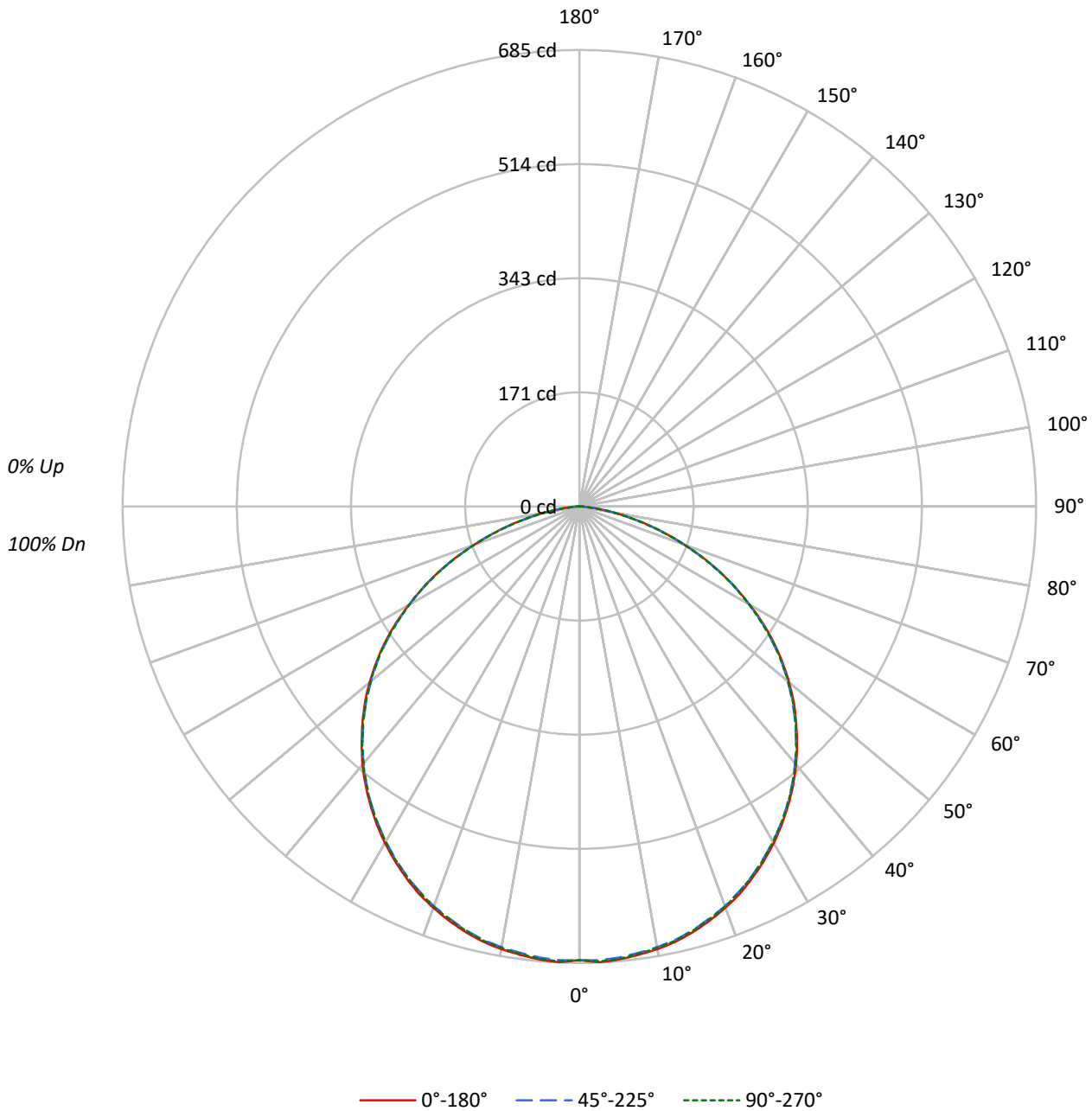
Test Method: LM-79-2019  
Report Number: P973586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25-L935-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1903.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 18.9  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    |    |    |    |    | 85  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 91  | 85  | 79  | 97  | 90  | 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  | 63  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |    |    | 51  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |    |    |    |    |    | 44  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |    |    |    | 39  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |    |    |    |    |    | 34  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 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  | 40  | 34  | 29  | 27  |    |    |    |    |    | 27  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 25  |    |    |    |    |    | 25  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1832 | 1832 | 1832 |
| 5°  | 1844 | 1836 | 1841 |
| 10° | 1843 | 1835 | 1838 |
| 15° | 1841 | 1833 | 1836 |
| 20° | 1835 | 1828 | 1830 |
| 25° | 1825 | 1818 | 1819 |
| 30° | 1812 | 1804 | 1806 |
| 35° | 1796 | 1789 | 1790 |
| 40° | 1777 | 1768 | 1770 |
| 45° | 1751 | 1743 | 1746 |
| 50° | 1720 | 1708 | 1711 |
| 55° | 1671 | 1657 | 1663 |
| 60° | 1589 | 1582 | 1582 |
| 65° | 1484 | 1480 | 1475 |
| 70° | 1313 | 1320 | 1317 |
| 75° | 1106 | 1097 | 1089 |
| 80° | 795  | 783  | 775  |
| 85° | 417  | 417  | 401  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1751 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.5   | 3.4       |
| 10°-20°   | 185.4  | 9.7       |
| 20°-30°   | 281.7  | 14.8      |
| 30°-40°   | 340.5  | 17.9      |
| 40°-50°   | 353.4  | 18.6      |
| 50°-60°   | 316.0  | 16.6      |
| 60°-70°   | 229.7  | 12.1      |
| 70°-80°   | 113.0  | 5.9       |
| 80°-90°   | 19.6   | 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°    | 531.6  | 27.9      |
| 0°-40°    | 872.1  | 45.8      |
| 0°-60°    | 1541.5 | 81.0      |
| 0°-90°    | 1903.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1903.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 681 | 681   | 681 | 681   | 681 |      |
| 5°  | 682 | 674   | 680 | 677   | 682 | 65   |
| 15° | 661 | 654   | 658 | 656   | 659 | 187  |
| 25° | 615 | 608   | 612 | 611   | 613 | 283  |
| 35° | 547 | 543   | 544 | 545   | 545 | 342  |
| 45° | 460 | 458   | 458 | 459   | 459 | 355  |
| 55° | 356 | 354   | 353 | 354   | 354 | 317  |
| 65° | 233 | 234   | 232 | 232   | 232 | 230  |
| 75° | 106 | 107   | 106 | 106   | 105 | 113  |
| 85° | 14  | 14    | 14  | 14    | 13  | 20   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 680.8 | 680.8 | 680.8 | 680.8 | 680.8 |
| 2.5°  | 684.6 | 676.6 | 681.6 | 678.7 | 683.3 |
| 5°    | 682.5 | 674.5 | 679.5 | 677.0 | 681.6 |
| 7.5°  | 678.7 | 670.7 | 675.7 | 673.2 | 677.0 |
| 10°   | 674.5 | 666.1 | 671.5 | 669.0 | 672.8 |
| 12.5° | 669.0 | 661.0 | 666.1 | 664.0 | 667.3 |
| 15°   | 661.0 | 653.5 | 658.1 | 656.4 | 658.9 |
| 17.5° | 651.4 | 643.8 | 648.4 | 647.1 | 649.2 |
| 20°   | 640.8 | 633.7 | 638.3 | 637.1 | 639.2 |
| 22.5° | 629.1 | 621.5 | 625.7 | 624.9 | 626.5 |
| 25°   | 614.8 | 608.0 | 612.2 | 611.0 | 612.7 |
| 27.5° | 599.6 | 593.3 | 596.7 | 596.7 | 597.5 |
| 30°   | 583.2 | 577.3 | 580.7 | 580.7 | 581.1 |
| 32.5° | 565.6 | 560.9 | 563.0 | 563.5 | 563.5 |
| 35°   | 546.6 | 542.9 | 544.5 | 545.0 | 545.0 |
| 37.5° | 526.9 | 523.1 | 524.4 | 525.2 | 525.2 |
| 40°   | 505.9 | 502.5 | 503.3 | 504.2 | 503.8 |
| 42.5° | 483.2 | 480.6 | 481.0 | 481.9 | 481.9 |
| 45°   | 460.0 | 457.9 | 457.9 | 458.8 | 458.8 |
| 47.5° | 436.5 | 434.4 | 433.5 | 434.4 | 434.4 |
| 50°   | 410.8 | 408.7 | 407.9 | 408.7 | 408.7 |
| 52.5° | 383.9 | 381.8 | 381.8 | 381.8 | 382.2 |
| 55°   | 356.2 | 354.1 | 353.2 | 354.1 | 354.5 |
| 57.5° | 326.7 | 325.9 | 324.6 | 325.0 | 323.8 |
| 60°   | 295.2 | 295.2 | 293.9 | 294.8 | 293.9 |
| 62.5° | 264.5 | 265.3 | 264.1 | 264.1 | 263.2 |
| 65°   | 233.0 | 233.8 | 232.5 | 232.5 | 231.7 |
| 67.5° | 200.6 | 201.8 | 200.2 | 200.2 | 199.3 |
| 70°   | 166.9 | 169.5 | 167.8 | 168.2 | 167.4 |
| 72.5° | 136.7 | 137.9 | 136.2 | 136.2 | 135.4 |
| 75°   | 106.4 | 107.2 | 105.5 | 106.0 | 104.7 |
| 77.5° | 76.5  | 77.8  | 76.1  | 76.5  | 76.1  |
| 80°   | 51.3  | 51.7  | 50.5  | 50.9  | 50.0  |
| 82.5° | 29.9  | 30.3  | 29.9  | 29.4  | 29.0  |
| 85°   | 13.5  | 13.9  | 13.5  | 13.5  | 13.0  |
| 87.5° | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)