

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: P973670

Luminaire Tested: FLR2-22-25-L850-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973670  
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-L850-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

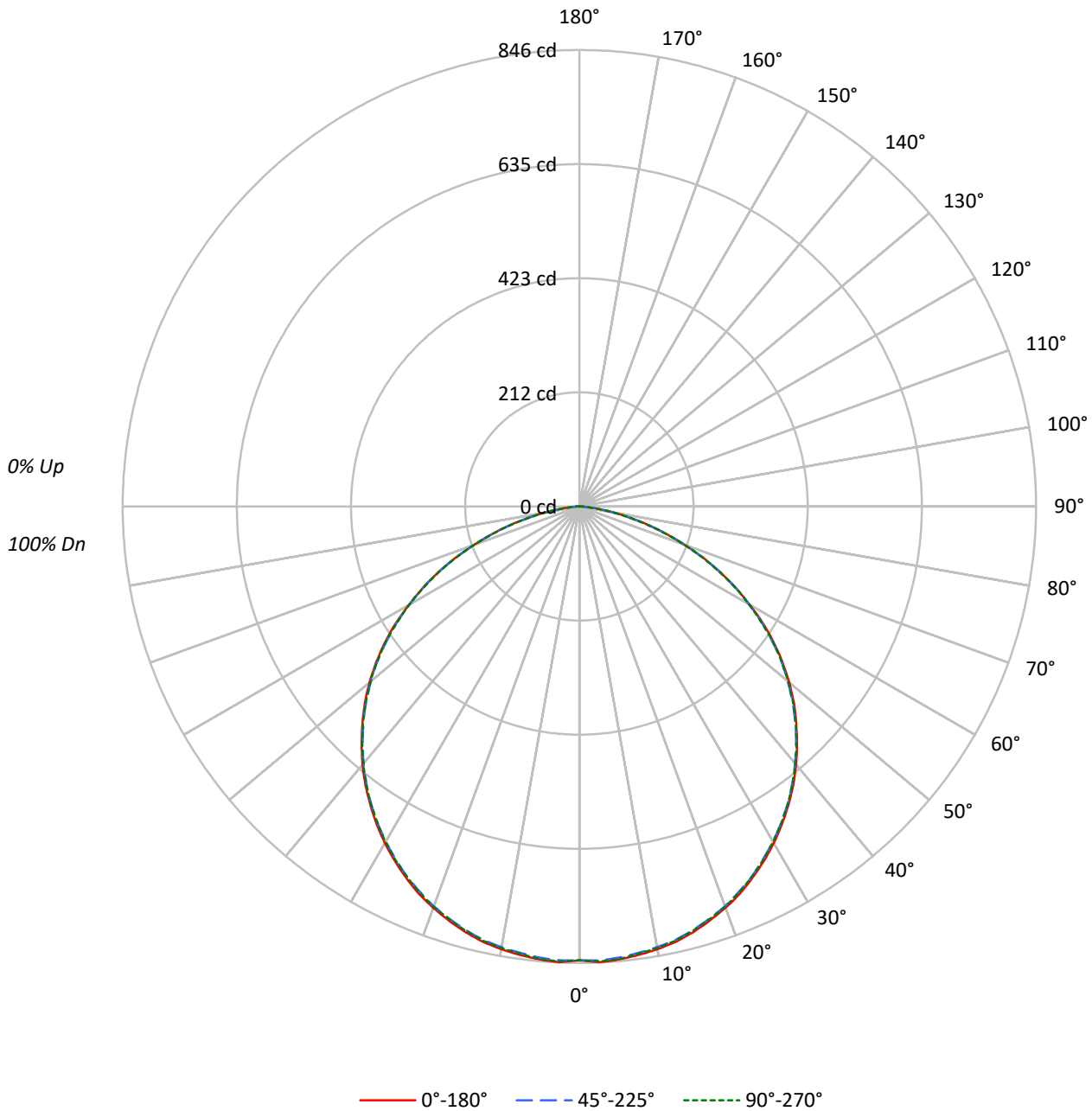
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2351.8 lumens  
Efficiency: N/A  
Efficacy: 124.4 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  |     |     |     | 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  | 63  | 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   | 71  | 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  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 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  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2263 | 2263 | 2263 |
| 5°  | 2277 | 2267 | 2274 |
| 10° | 2277 | 2267 | 2271 |
| 15° | 2275 | 2265 | 2268 |
| 20° | 2267 | 2258 | 2261 |
| 25° | 2255 | 2246 | 2247 |
| 30° | 2239 | 2229 | 2231 |
| 35° | 2218 | 2210 | 2212 |
| 40° | 2195 | 2184 | 2186 |
| 45° | 2163 | 2153 | 2157 |
| 50° | 2125 | 2110 | 2114 |
| 55° | 2064 | 2047 | 2054 |
| 60° | 1962 | 1954 | 1954 |
| 65° | 1833 | 1829 | 1822 |
| 70° | 1622 | 1631 | 1626 |
| 75° | 1366 | 1356 | 1344 |
| 80° | 982  | 965  | 958  |
| 85° | 513  | 513  | 497  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2163 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.6   | 3.4       |
| 10°-20°   | 229.0  | 9.7       |
| 20°-30°   | 348.0  | 14.8      |
| 30°-40°   | 420.6  | 17.9      |
| 40°-50°   | 436.6  | 18.6      |
| 50°-60°   | 390.3  | 16.6      |
| 60°-70°   | 283.8  | 12.1      |
| 70°-80°   | 139.6  | 5.9       |
| 80°-90°   | 24.2   | 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°    | 656.6  | 27.9      |
| 0°-40°    | 1077.3 | 45.8      |
| 0°-60°    | 1904.2 | 81.0      |
| 0°-90°    | 2351.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2351.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 841 | 841   | 841 | 841   | 841 |      |
| 5°  | 843 | 833   | 839 | 836   | 842 | 80   |
| 15° | 817 | 807   | 813 | 811   | 814 | 230  |
| 25° | 759 | 751   | 756 | 755   | 757 | 350  |
| 35° | 675 | 671   | 673 | 673   | 673 | 422  |
| 45° | 568 | 566   | 566 | 567   | 567 | 438  |
| 55° | 440 | 437   | 436 | 437   | 438 | 392  |
| 65° | 288 | 289   | 287 | 287   | 286 | 284  |
| 75° | 131 | 132   | 130 | 131   | 129 | 139  |
| 85° | 17  | 17    | 17  | 17    | 16  | 24   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 841.0 | 841.0 | 841.0 | 841.0 | 841.0 |
| 2.5°  | 845.6 | 835.8 | 842.0 | 838.4 | 844.1 |
| 5°    | 843.0 | 833.2 | 839.4 | 836.3 | 842.0 |
| 7.5°  | 838.4 | 828.5 | 834.7 | 831.6 | 836.3 |
| 10°   | 833.2 | 822.8 | 829.5 | 826.4 | 831.1 |
| 12.5° | 826.4 | 816.6 | 822.8 | 820.2 | 824.3 |
| 15°   | 816.6 | 807.2 | 812.9 | 810.8 | 814.0 |
| 17.5° | 804.6 | 795.3 | 801.0 | 799.4 | 802.0 |
| 20°   | 791.6 | 782.8 | 788.5 | 786.9 | 789.5 |
| 22.5° | 777.1 | 767.7 | 772.9 | 771.9 | 774.0 |
| 25°   | 759.4 | 751.1 | 756.3 | 754.7 | 756.8 |
| 27.5° | 740.7 | 732.9 | 737.1 | 737.1 | 738.1 |
| 30°   | 720.5 | 713.2 | 717.3 | 717.3 | 717.9 |
| 32.5° | 698.6 | 692.9 | 695.5 | 696.0 | 696.0 |
| 35°   | 675.3 | 670.6 | 672.7 | 673.2 | 673.2 |
| 37.5° | 650.9 | 646.2 | 647.7 | 648.8 | 648.8 |
| 40°   | 624.9 | 620.7 | 621.8 | 622.8 | 622.3 |
| 42.5° | 596.8 | 593.7 | 594.2 | 595.3 | 595.3 |
| 45°   | 568.3 | 565.7 | 565.7 | 566.7 | 566.7 |
| 47.5° | 539.2 | 536.6 | 535.5 | 536.6 | 536.6 |
| 50°   | 507.5 | 504.9 | 503.9 | 504.9 | 504.9 |
| 52.5° | 474.2 | 471.7 | 471.7 | 471.7 | 472.2 |
| 55°   | 440.0 | 437.4 | 436.3 | 437.4 | 437.9 |
| 57.5° | 403.6 | 402.6 | 401.0 | 401.5 | 400.0 |
| 60°   | 364.6 | 364.6 | 363.1 | 364.1 | 363.1 |
| 62.5° | 326.7 | 327.8 | 326.2 | 326.2 | 325.2 |
| 65°   | 287.8 | 288.8 | 287.2 | 287.2 | 286.2 |
| 67.5° | 247.8 | 249.3 | 247.3 | 247.3 | 246.2 |
| 70°   | 206.2 | 209.3 | 207.3 | 207.8 | 206.7 |
| 72.5° | 168.8 | 170.4 | 168.3 | 168.3 | 167.3 |
| 75°   | 131.4 | 132.5 | 130.4 | 130.9 | 129.3 |
| 77.5° | 94.5  | 96.1  | 94.0  | 94.5  | 94.0  |
| 80°   | 63.4  | 63.9  | 62.3  | 62.9  | 61.8  |
| 82.5° | 36.9  | 37.4  | 36.9  | 36.4  | 35.8  |
| 85°   | 16.6  | 17.1  | 16.6  | 16.6  | 16.1  |
| 87.5° | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)