

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: P974127

Luminaire Tested: FLR2-24-65-L930-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974127  
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: FLR2-24-65-L930-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-65-L930-CP125  
Ballast/Driver: -

**Summary**

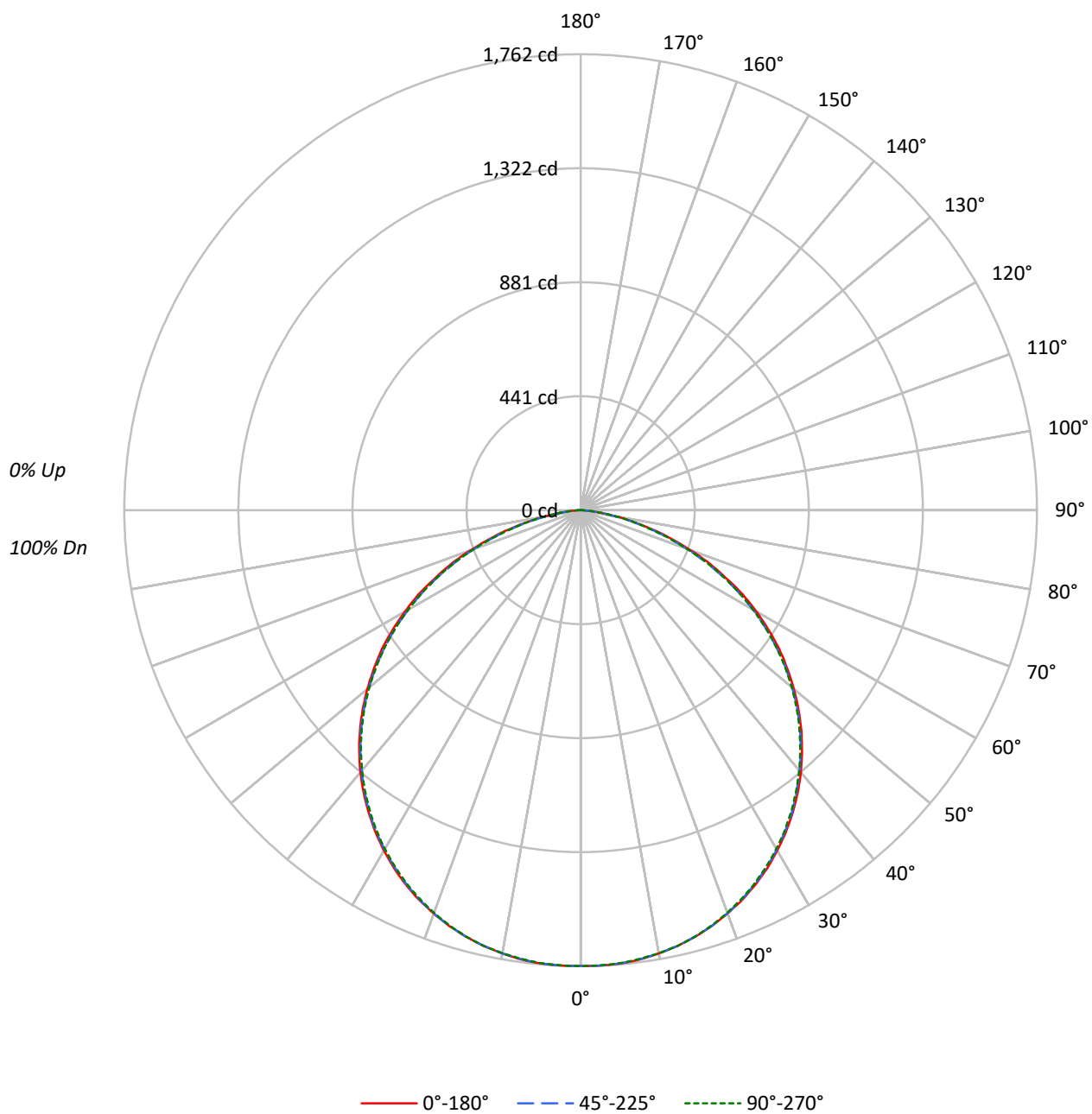
Lumens per Lamp: N/A  
Luminaire Lumens: 4979.4 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.4  
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  |     |     |     |    | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 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°  | 2370 | 2370 | 2370 |
| 5°  | 2375 | 2375 | 2374 |
| 10° | 2377 | 2376 | 2375 |
| 15° | 2377 | 2377 | 2377 |
| 20° | 2375 | 2374 | 2371 |
| 25° | 2371 | 2366 | 2362 |
| 30° | 2360 | 2353 | 2348 |
| 35° | 2345 | 2338 | 2330 |
| 40° | 2324 | 2310 | 2306 |
| 45° | 2294 | 2281 | 2273 |
| 50° | 2251 | 2234 | 2227 |
| 55° | 2198 | 2167 | 2164 |
| 60° | 2106 | 2069 | 2069 |
| 65° | 1970 | 1924 | 1930 |
| 70° | 1773 | 1718 | 1713 |
| 75° | 1489 | 1430 | 1423 |
| 80° | 1087 | 1034 | 1078 |
| 85° | 614  | 567  | 576  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2294 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.2  | 3.4       |
| 10°-20°   | 481.8  | 9.7       |
| 20°-30°   | 734.5  | 14.8      |
| 30°-40°   | 889.9  | 17.9      |
| 40°-50°   | 924.4  | 18.6      |
| 50°-60°   | 827.0  | 16.6      |
| 60°-70°   | 602.7  | 12.1      |
| 70°-80°   | 298.5  | 6.0       |
| 80°-90°   | 53.4   | 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°    | 1383.5 | 27.8      |
| 0°-40°    | 2273.5 | 45.7      |
| 0°-60°    | 4024.8 | 80.8      |
| 0°-90°    | 4979.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4979.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1762 | 1762  | 1762 | 1762  | 1762 |      |
| 5°  | 1759 | 1759  | 1759 | 1759  | 1757 | 167  |
| 15° | 1707 | 1706  | 1706 | 1707  | 1706 | 482  |
| 25° | 1597 | 1595  | 1594 | 1593  | 1591 | 736  |
| 35° | 1427 | 1426  | 1424 | 1421  | 1418 | 893  |
| 45° | 1206 | 1203  | 1198 | 1196  | 1195 | 929  |
| 55° | 937  | 930   | 924  | 924   | 922  | 835  |
| 65° | 619  | 614   | 604  | 607   | 606  | 614  |
| 75° | 286  | 282   | 275  | 280   | 274  | 305  |
| 85° | 40   | 37    | 37   | 37    | 37   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1761.8 | 1761.8 | 1761.8 | 1761.8 | 1761.8 |
| 2.5°  | 1761.8 | 1761.2 | 1761.2 | 1761.8 | 1760.5 |
| 5°    | 1758.6 | 1759.3 | 1758.6 | 1758.6 | 1757.4 |
| 7.5°  | 1751.7 | 1751.0 | 1750.4 | 1751.0 | 1749.1 |
| 10°   | 1739.7 | 1739.7 | 1739.0 | 1739.7 | 1738.4 |
| 12.5° | 1725.1 | 1725.1 | 1725.1 | 1725.8 | 1725.1 |
| 15°   | 1706.8 | 1706.2 | 1706.2 | 1707.4 | 1706.2 |
| 17.5° | 1685.3 | 1684.7 | 1684.7 | 1684.0 | 1682.8 |
| 20°   | 1658.7 | 1658.7 | 1658.1 | 1657.5 | 1655.6 |
| 22.5° | 1630.3 | 1629.7 | 1627.8 | 1627.8 | 1625.2 |
| 25°   | 1596.8 | 1594.9 | 1593.6 | 1593.0 | 1591.1 |
| 27.5° | 1560.1 | 1557.6 | 1555.7 | 1554.4 | 1552.5 |
| 30°   | 1519.0 | 1516.5 | 1514.6 | 1512.7 | 1511.5 |
| 32.5° | 1474.8 | 1473.5 | 1470.4 | 1469.7 | 1467.2 |
| 35°   | 1427.4 | 1425.5 | 1423.6 | 1421.1 | 1418.5 |
| 37.5° | 1376.8 | 1374.9 | 1370.5 | 1369.2 | 1367.3 |
| 40°   | 1323.1 | 1320.5 | 1314.9 | 1314.9 | 1313.0 |
| 42.5° | 1265.6 | 1263.0 | 1259.2 | 1256.7 | 1255.4 |
| 45°   | 1205.5 | 1203.0 | 1198.5 | 1196.0 | 1194.8 |
| 47.5° | 1141.7 | 1139.8 | 1134.7 | 1132.8 | 1130.9 |
| 50°   | 1075.3 | 1072.7 | 1067.1 | 1065.8 | 1063.9 |
| 52.5° | 1005.7 | 1004.5 | 996.9  | 996.3  | 994.4  |
| 55°   | 936.8  | 929.9  | 923.6  | 923.6  | 922.3  |
| 57.5° | 861.0  | 855.9  | 847.7  | 847.7  | 846.4  |
| 60°   | 782.6  | 778.2  | 768.7  | 770.0  | 768.7  |
| 62.5° | 706.1  | 696.6  | 687.8  | 691.6  | 688.4  |
| 65°   | 618.9  | 613.8  | 604.3  | 606.9  | 606.2  |
| 67.5° | 539.2  | 529.7  | 520.9  | 525.9  | 523.4  |
| 70°   | 450.7  | 445.7  | 436.8  | 441.9  | 435.5  |
| 72.5° | 367.3  | 362.9  | 354.0  | 359.7  | 353.4  |
| 75°   | 286.4  | 281.9  | 275.0  | 280.0  | 273.7  |
| 77.5° | 209.9  | 206.7  | 200.4  | 205.4  | 206.7  |
| 80°   | 140.3  | 136.5  | 133.4  | 137.8  | 139.1  |
| 82.5° | 82.2   | 79.7   | 78.4   | 79.0   | 82.2   |
| 85°   | 39.8   | 36.7   | 36.7   | 37.3   | 37.3   |
| 87.5° | 10.7   | 9.5    | 10.7   | 11.4   | 12.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)