

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: P974263

Luminaire Tested: FLR2-24-65-L935-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974263  
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-L935-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-65-L935-CP375  
Ballast/Driver: -

**Summary**

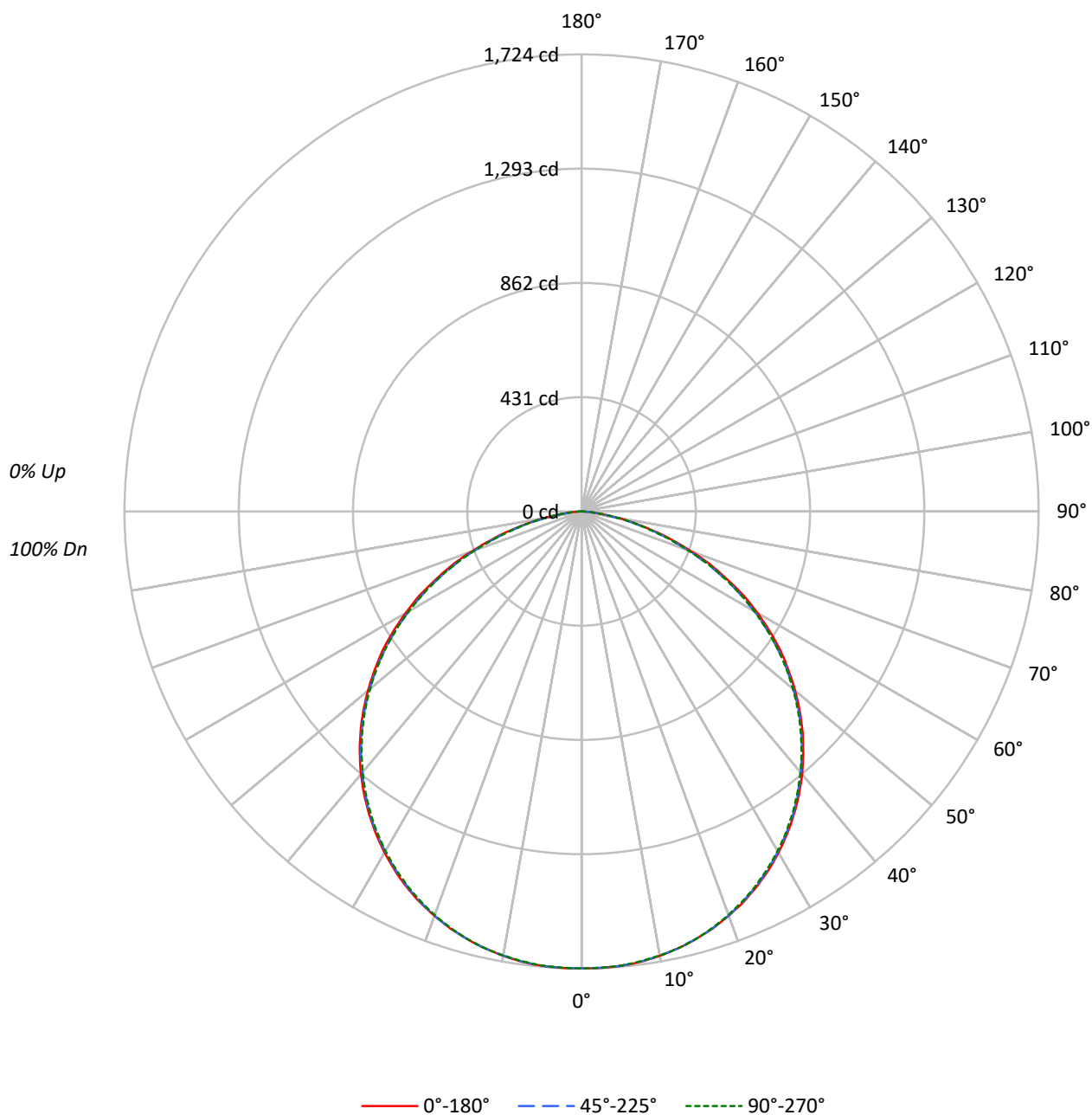
Lumens per Lamp: N/A  
Luminaire Lumens: 4871.7 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°  | 2319 | 2319 | 2319 |
| 5°  | 2324 | 2324 | 2322 |
| 10° | 2325 | 2325 | 2324 |
| 15° | 2326 | 2325 | 2325 |
| 20° | 2324 | 2323 | 2319 |
| 25° | 2319 | 2315 | 2311 |
| 30° | 2309 | 2302 | 2298 |
| 35° | 2294 | 2288 | 2280 |
| 40° | 2274 | 2259 | 2256 |
| 45° | 2244 | 2231 | 2224 |
| 50° | 2202 | 2185 | 2179 |
| 55° | 2150 | 2120 | 2117 |
| 60° | 2060 | 2024 | 2024 |
| 65° | 1928 | 1883 | 1888 |
| 70° | 1735 | 1681 | 1676 |
| 75° | 1457 | 1398 | 1392 |
| 80° | 1064 | 1011 | 1055 |
| 85° | 602  | 554  | 563  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2244 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.6  | 3.4       |
| 10°-20°   | 471.3  | 9.7       |
| 20°-30°   | 718.6  | 14.8      |
| 30°-40°   | 870.7  | 17.9      |
| 40°-50°   | 904.4  | 18.6      |
| 50°-60°   | 809.1  | 16.6      |
| 60°-70°   | 589.7  | 12.1      |
| 70°-80°   | 292.0  | 6.0       |
| 80°-90°   | 52.2   | 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°    | 1353.6 | 27.8      |
| 0°-40°    | 2224.3 | 45.7      |
| 0°-60°    | 3937.8 | 80.8      |
| 0°-90°    | 4871.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4871.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1724 | 1724  | 1724 | 1724  | 1724 |      |
| 5°  | 1721 | 1721  | 1721 | 1721  | 1719 | 164  |
| 15° | 1670 | 1669  | 1669 | 1670  | 1669 | 471  |
| 25° | 1562 | 1560  | 1559 | 1559  | 1557 | 720  |
| 35° | 1396 | 1395  | 1393 | 1390  | 1388 | 873  |
| 45° | 1179 | 1177  | 1173 | 1170  | 1169 | 909  |
| 55° | 917  | 910   | 904  | 904   | 902  | 817  |
| 65° | 606  | 600   | 591  | 594   | 593  | 600  |
| 75° | 280  | 276   | 269  | 274   | 268  | 299  |
| 85° | 39   | 36    | 36   | 36    | 36   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1723.7 | 1723.7 | 1723.7 | 1723.7 | 1723.7 |
| 2.5°  | 1723.7 | 1723.1 | 1723.1 | 1723.7 | 1722.5 |
| 5°    | 1720.6 | 1721.2 | 1720.6 | 1720.6 | 1719.4 |
| 7.5°  | 1713.8 | 1713.2 | 1712.6 | 1713.2 | 1711.3 |
| 10°   | 1702.1 | 1702.1 | 1701.4 | 1702.1 | 1700.8 |
| 12.5° | 1687.8 | 1687.8 | 1687.8 | 1688.5 | 1687.8 |
| 15°   | 1669.9 | 1669.3 | 1669.3 | 1670.5 | 1669.3 |
| 17.5° | 1648.9 | 1648.2 | 1648.2 | 1647.6 | 1646.4 |
| 20°   | 1622.9 | 1622.9 | 1622.3 | 1621.7 | 1619.8 |
| 22.5° | 1595.1 | 1594.4 | 1592.6 | 1592.6 | 1590.1 |
| 25°   | 1562.3 | 1560.4 | 1559.2 | 1558.6 | 1556.7 |
| 27.5° | 1526.4 | 1523.9 | 1522.1 | 1520.8 | 1519.0 |
| 30°   | 1486.2 | 1483.7 | 1481.9 | 1480.0 | 1478.8 |
| 32.5° | 1442.9 | 1441.7 | 1438.6 | 1438.0 | 1435.5 |
| 35°   | 1396.5 | 1394.7 | 1392.8 | 1390.3 | 1387.9 |
| 37.5° | 1347.0 | 1345.2 | 1340.9 | 1339.6 | 1337.8 |
| 40°   | 1294.5 | 1292.0 | 1286.4 | 1286.4 | 1284.6 |
| 42.5° | 1238.2 | 1235.7 | 1232.0 | 1229.5 | 1228.3 |
| 45°   | 1179.4 | 1177.0 | 1172.6 | 1170.2 | 1168.9 |
| 47.5° | 1117.0 | 1115.1 | 1110.2 | 1108.3 | 1106.5 |
| 50°   | 1052.0 | 1049.6 | 1044.0 | 1042.8 | 1040.9 |
| 52.5° | 984.0  | 982.8  | 975.3  | 974.7  | 972.9  |
| 55°   | 916.6  | 909.8  | 903.6  | 903.6  | 902.4  |
| 57.5° | 842.4  | 837.4  | 829.4  | 829.4  | 828.1  |
| 60°   | 765.7  | 761.3  | 752.1  | 753.3  | 752.1  |
| 62.5° | 690.8  | 681.6  | 672.9  | 676.6  | 673.5  |
| 65°   | 605.5  | 600.5  | 591.3  | 593.7  | 593.1  |
| 67.5° | 527.6  | 518.3  | 509.6  | 514.6  | 512.1  |
| 70°   | 441.0  | 436.0  | 427.4  | 432.3  | 426.1  |
| 72.5° | 359.3  | 355.0  | 346.3  | 351.9  | 345.7  |
| 75°   | 280.2  | 275.8  | 269.0  | 274.0  | 267.8  |
| 77.5° | 205.3  | 202.2  | 196.1  | 201.0  | 202.2  |
| 80°   | 137.3  | 133.6  | 130.5  | 134.8  | 136.1  |
| 82.5° | 80.4   | 77.9   | 76.7   | 77.3   | 80.4   |
| 85°   | 39.0   | 35.9   | 35.9   | 36.5   | 36.5   |
| 87.5° | 10.5   | 9.3    | 10.5   | 11.1   | 11.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)