

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: P974749

Luminaire Tested: FLR2-24-35HE-L935-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974749  
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: FLR2-24-35HE-L935-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

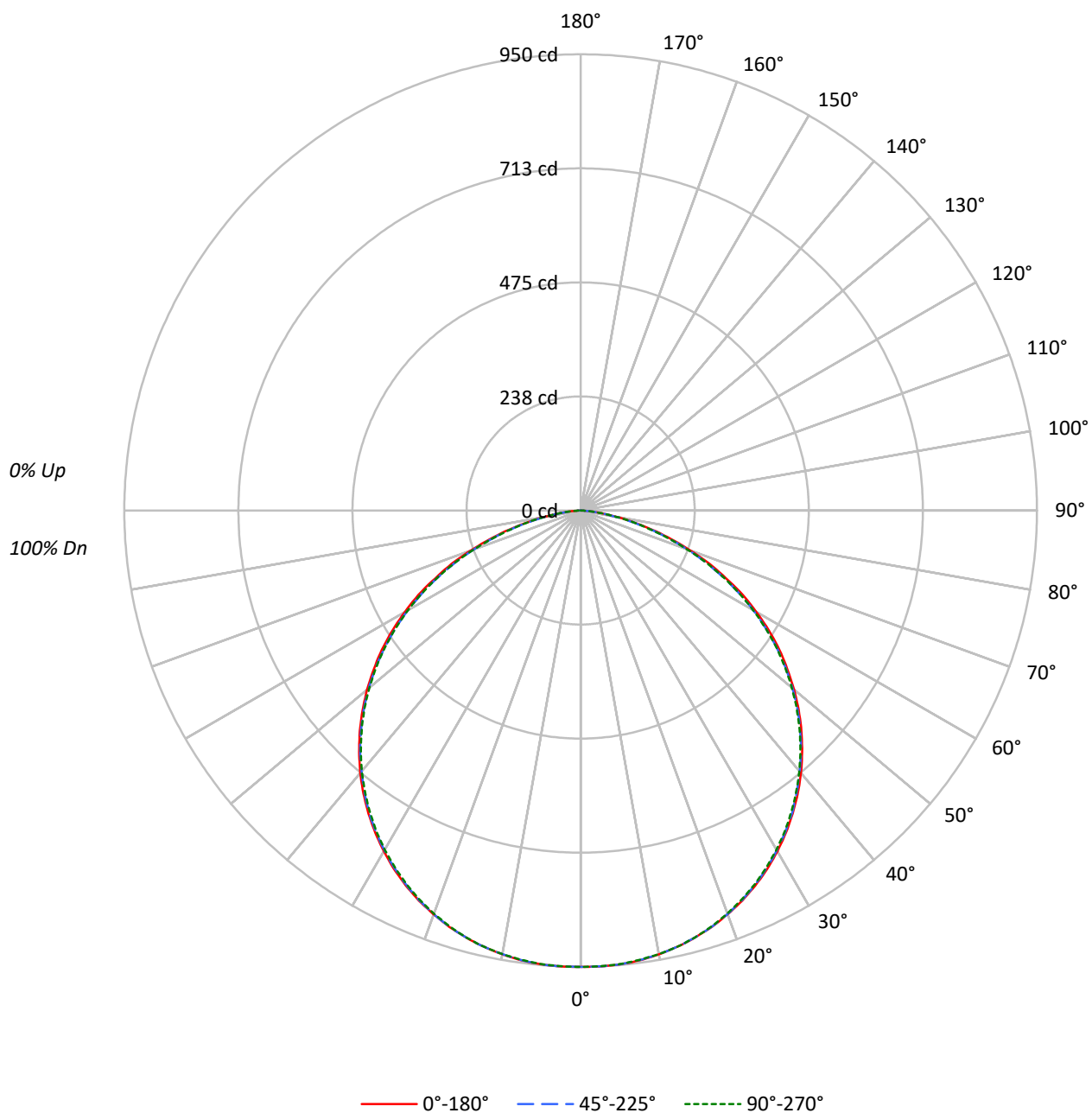
Lumens per Lamp: N/A  
Luminaire Lumens: 2686.1 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
Input Voltage (V):  
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°  | 1279 | 1279 | 1279 |
| 5°  | 1281 | 1281 | 1280 |
| 10° | 1282 | 1282 | 1281 |
| 15° | 1282 | 1282 | 1282 |
| 20° | 1281 | 1281 | 1279 |
| 25° | 1279 | 1276 | 1274 |
| 30° | 1273 | 1269 | 1267 |
| 35° | 1265 | 1261 | 1257 |
| 40° | 1254 | 1246 | 1244 |
| 45° | 1237 | 1230 | 1226 |
| 50° | 1214 | 1205 | 1201 |
| 55° | 1186 | 1169 | 1167 |
| 60° | 1136 | 1116 | 1116 |
| 65° | 1063 | 1038 | 1041 |
| 70° | 956  | 927  | 924  |
| 75° | 803  | 771  | 768  |
| 80° | 587  | 558  | 581  |
| 85° | 332  | 306  | 310  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1237 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.2   | 3.4       |
| 10°-20°   | 259.9  | 9.7       |
| 20°-30°   | 396.2  | 14.8      |
| 30°-40°   | 480.1  | 17.9      |
| 40°-50°   | 498.7  | 18.6      |
| 50°-60°   | 446.1  | 16.6      |
| 60°-70°   | 325.1  | 12.1      |
| 70°-80°   | 161.0  | 6.0       |
| 80°-90°   | 28.8   | 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°    | 746.3  | 27.8      |
| 0°-40°    | 1226.4 | 45.7      |
| 0°-60°    | 2171.2 | 80.8      |
| 0°-90°    | 2686.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2686.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 950 | 950   | 950 | 950   | 950 |      |
| 5°  | 949 | 949   | 949 | 949   | 948 | 90   |
| 15° | 921 | 920   | 920 | 921   | 920 | 260  |
| 25° | 861 | 860   | 860 | 859   | 858 | 397  |
| 35° | 770 | 769   | 768 | 767   | 765 | 482  |
| 45° | 650 | 649   | 647 | 645   | 644 | 501  |
| 55° | 505 | 502   | 498 | 498   | 498 | 450  |
| 65° | 334 | 331   | 326 | 327   | 327 | 331  |
| 75° | 154 | 152   | 148 | 151   | 148 | 165  |
| 85° | 22  | 20    | 20  | 20    | 20  | 30   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 950.4 | 950.4 | 950.4 | 950.4 | 950.4 |
| 2.5°  | 950.4 | 950.1 | 950.1 | 950.4 | 949.7 |
| 5°    | 948.7 | 949.0 | 948.7 | 948.7 | 948.0 |
| 7.5°  | 944.9 | 944.6 | 944.3 | 944.6 | 943.6 |
| 10°   | 938.5 | 938.5 | 938.1 | 938.5 | 937.8 |
| 12.5° | 930.6 | 930.6 | 930.6 | 931.0 | 930.6 |
| 15°   | 920.7 | 920.4 | 920.4 | 921.1 | 920.4 |
| 17.5° | 909.1 | 908.8 | 908.8 | 908.4 | 907.8 |
| 20°   | 894.8 | 894.8 | 894.5 | 894.1 | 893.1 |
| 22.5° | 879.5 | 879.1 | 878.1 | 878.1 | 876.7 |
| 25°   | 861.4 | 860.4 | 859.7 | 859.3 | 858.3 |
| 27.5° | 841.6 | 840.2 | 839.2 | 838.5 | 837.5 |
| 30°   | 819.4 | 818.1 | 817.1 | 816.0 | 815.4 |
| 32.5° | 795.6 | 794.9 | 793.2 | 792.8 | 791.5 |
| 35°   | 770.0 | 769.0 | 768.0 | 766.6 | 765.2 |
| 37.5° | 742.7 | 741.7 | 739.3 | 738.6 | 737.6 |
| 40°   | 713.7 | 712.4 | 709.3 | 709.3 | 708.3 |
| 42.5° | 682.7 | 681.3 | 679.3 | 677.9 | 677.2 |
| 45°   | 650.3 | 648.9 | 646.6 | 645.2 | 644.5 |
| 47.5° | 615.9 | 614.8 | 612.1 | 611.1 | 610.1 |
| 50°   | 580.1 | 578.7 | 575.6 | 574.9 | 573.9 |
| 52.5° | 542.5 | 541.9 | 537.8 | 537.4 | 536.4 |
| 55°   | 505.4 | 501.6 | 498.2 | 498.2 | 497.5 |
| 57.5° | 464.5 | 461.7 | 457.3 | 457.3 | 456.6 |
| 60°   | 422.2 | 419.8 | 414.7 | 415.3 | 414.7 |
| 62.5° | 380.9 | 375.8 | 371.0 | 373.1 | 371.4 |
| 65°   | 333.8 | 331.1 | 326.0 | 327.4 | 327.0 |
| 67.5° | 290.9 | 285.8 | 281.0 | 283.7 | 282.4 |
| 70°   | 243.1 | 240.4 | 235.6 | 238.4 | 235.0 |
| 72.5° | 198.1 | 195.7 | 191.0 | 194.0 | 190.6 |
| 75°   | 154.5 | 152.1 | 148.3 | 151.1 | 147.7 |
| 77.5° | 113.2 | 111.5 | 108.1 | 110.8 | 111.5 |
| 80°   | 75.7  | 73.7  | 72.0  | 74.3  | 75.0  |
| 82.5° | 44.3  | 43.0  | 42.3  | 42.6  | 44.3  |
| 85°   | 21.5  | 19.8  | 19.8  | 20.1  | 20.1  |
| 87.5° | 5.8   | 5.1   | 5.8   | 6.1   | 6.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)