

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: P974672

Luminaire Tested: FLR2-24-35HE-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974672  
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-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

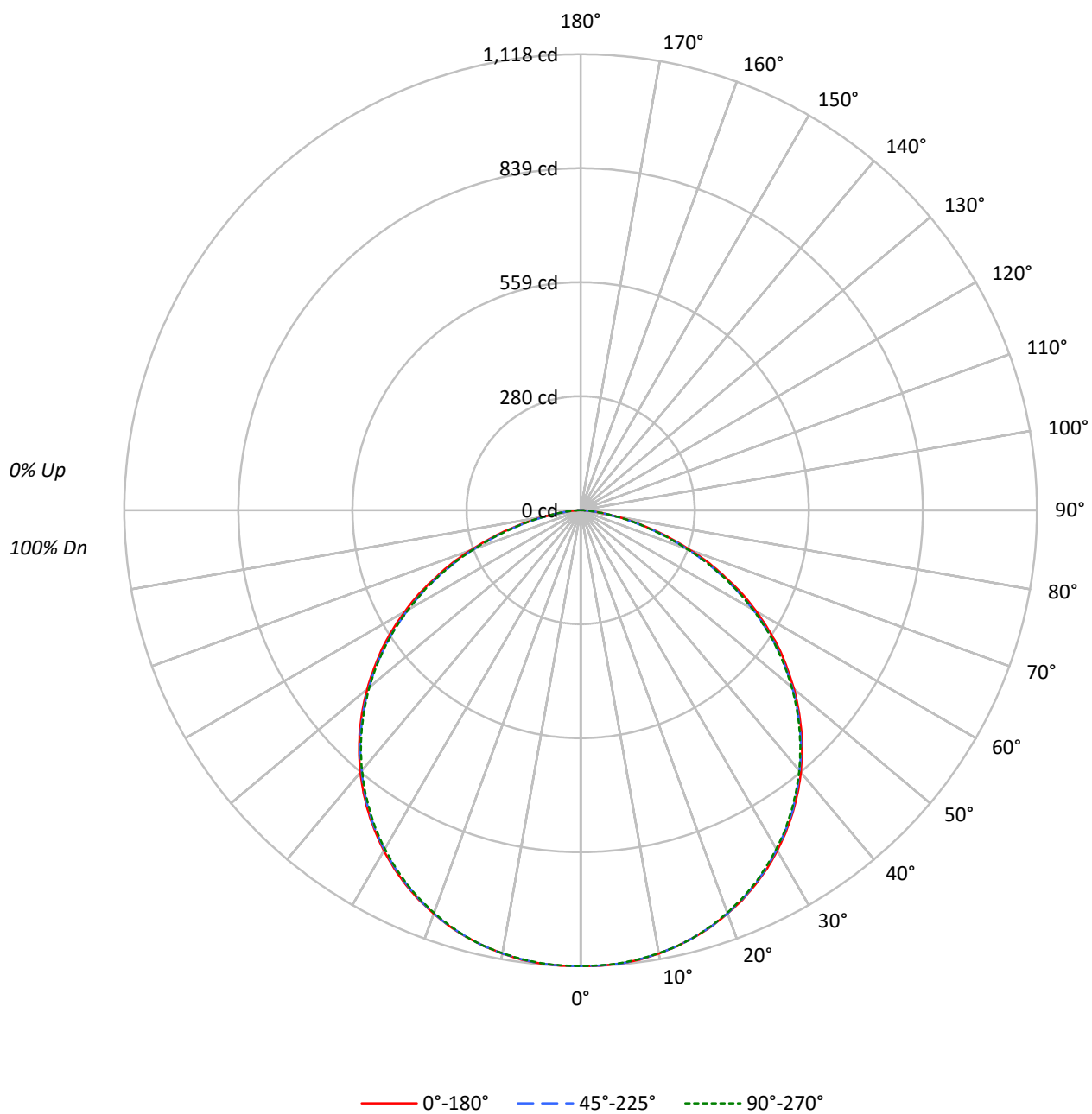
Lumens per Lamp: N/A  
Luminaire Lumens: 3160.1 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°  | 1504 | 1504 | 1504 |
| 5°  | 1507 | 1507 | 1506 |
| 10° | 1508 | 1508 | 1507 |
| 15° | 1509 | 1508 | 1508 |
| 20° | 1507 | 1507 | 1504 |
| 25° | 1504 | 1502 | 1499 |
| 30° | 1498 | 1493 | 1490 |
| 35° | 1488 | 1484 | 1479 |
| 40° | 1475 | 1466 | 1464 |
| 45° | 1456 | 1447 | 1443 |
| 50° | 1428 | 1418 | 1413 |
| 55° | 1395 | 1375 | 1373 |
| 60° | 1337 | 1313 | 1313 |
| 65° | 1251 | 1221 | 1225 |
| 70° | 1125 | 1090 | 1087 |
| 75° | 945  | 907  | 903  |
| 80° | 690  | 656  | 684  |
| 85° | 391  | 360  | 366  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1456 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.1  | 3.4       |
| 10°-20°   | 305.7  | 9.7       |
| 20°-30°   | 466.2  | 14.8      |
| 30°-40°   | 564.8  | 17.9      |
| 40°-50°   | 586.7  | 18.6      |
| 50°-60°   | 524.8  | 16.6      |
| 60°-70°   | 382.5  | 12.1      |
| 70°-80°   | 189.4  | 6.0       |
| 80°-90°   | 33.9   | 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°    | 878.0  | 27.8      |
| 0°-40°    | 1442.9 | 45.7      |
| 0°-60°    | 2554.3 | 80.8      |
| 0°-90°    | 3160.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3160.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1118 | 1118  | 1118 | 1118  | 1118 |      |
| 5°  | 1116 | 1116  | 1116 | 1116  | 1115 | 106  |
| 15° | 1083 | 1083  | 1083 | 1084  | 1083 | 306  |
| 25° | 1013 | 1012  | 1011 | 1011  | 1010 | 467  |
| 35° | 906  | 905   | 904  | 902   | 900  | 567  |
| 45° | 765  | 764   | 761  | 759   | 758  | 590  |
| 55° | 595  | 590   | 586  | 586   | 585  | 530  |
| 65° | 393  | 390   | 384  | 385   | 385  | 389  |
| 75° | 182  | 179   | 174  | 178   | 174  | 194  |
| 85° | 25   | 23    | 23   | 24    | 24   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1118.1 | 1118.1 | 1118.1 | 1118.1 | 1118.1 |
| 2.5°  | 1118.1 | 1117.7 | 1117.7 | 1118.1 | 1117.3 |
| 5°    | 1116.1 | 1116.5 | 1116.1 | 1116.1 | 1115.3 |
| 7.5°  | 1111.7 | 1111.3 | 1110.9 | 1111.3 | 1110.1 |
| 10°   | 1104.1 | 1104.1 | 1103.7 | 1104.1 | 1103.3 |
| 12.5° | 1094.8 | 1094.8 | 1094.8 | 1095.2 | 1094.8 |
| 15°   | 1083.2 | 1082.8 | 1082.8 | 1083.6 | 1082.8 |
| 17.5° | 1069.6 | 1069.2 | 1069.2 | 1068.8 | 1068.0 |
| 20°   | 1052.7 | 1052.7 | 1052.3 | 1051.9 | 1050.7 |
| 22.5° | 1034.7 | 1034.3 | 1033.1 | 1033.1 | 1031.5 |
| 25°   | 1013.4 | 1012.2 | 1011.4 | 1011.0 | 1009.8 |
| 27.5° | 990.1  | 988.5  | 987.3  | 986.5  | 985.3  |
| 30°   | 964.1  | 962.4  | 961.2  | 960.0  | 959.2  |
| 32.5° | 936.0  | 935.2  | 933.2  | 932.8  | 931.2  |
| 35°   | 905.9  | 904.7  | 903.5  | 901.9  | 900.3  |
| 37.5° | 873.8  | 872.6  | 869.8  | 869.0  | 867.8  |
| 40°   | 839.7  | 838.1  | 834.5  | 834.5  | 833.3  |
| 42.5° | 803.2  | 801.6  | 799.2  | 797.6  | 796.8  |
| 45°   | 765.1  | 763.5  | 760.7  | 759.0  | 758.2  |
| 47.5° | 724.5  | 723.3  | 720.1  | 718.9  | 717.7  |
| 50°   | 682.4  | 680.8  | 677.2  | 676.4  | 675.2  |
| 52.5° | 638.3  | 637.5  | 632.7  | 632.3  | 631.1  |
| 55°   | 594.6  | 590.1  | 586.1  | 586.1  | 585.3  |
| 57.5° | 546.4  | 543.2  | 538.0  | 538.0  | 537.2  |
| 60°   | 496.7  | 493.9  | 487.8  | 488.6  | 487.8  |
| 62.5° | 448.1  | 442.1  | 436.5  | 438.9  | 436.9  |
| 65°   | 392.8  | 389.6  | 383.5  | 385.1  | 384.7  |
| 67.5° | 342.2  | 336.2  | 330.6  | 333.8  | 332.2  |
| 70°   | 286.0  | 282.8  | 277.2  | 280.4  | 276.4  |
| 72.5° | 233.1  | 230.3  | 224.7  | 228.3  | 224.3  |
| 75°   | 181.7  | 178.9  | 174.5  | 177.7  | 173.7  |
| 77.5° | 133.2  | 131.2  | 127.2  | 130.4  | 131.2  |
| 80°   | 89.1   | 86.7   | 84.7   | 87.5   | 88.3   |
| 82.5° | 52.2   | 50.5   | 49.7   | 50.1   | 52.2   |
| 85°   | 25.3   | 23.3   | 23.3   | 23.7   | 23.7   |
| 87.5° | 6.8    | 6.0    | 6.8    | 7.2    | 7.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)