

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P997397

Luminaire Tested: FSP-24-L3C3-CA125-4000K-MID

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/20/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-L3C3-CA125-4000K-MID  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

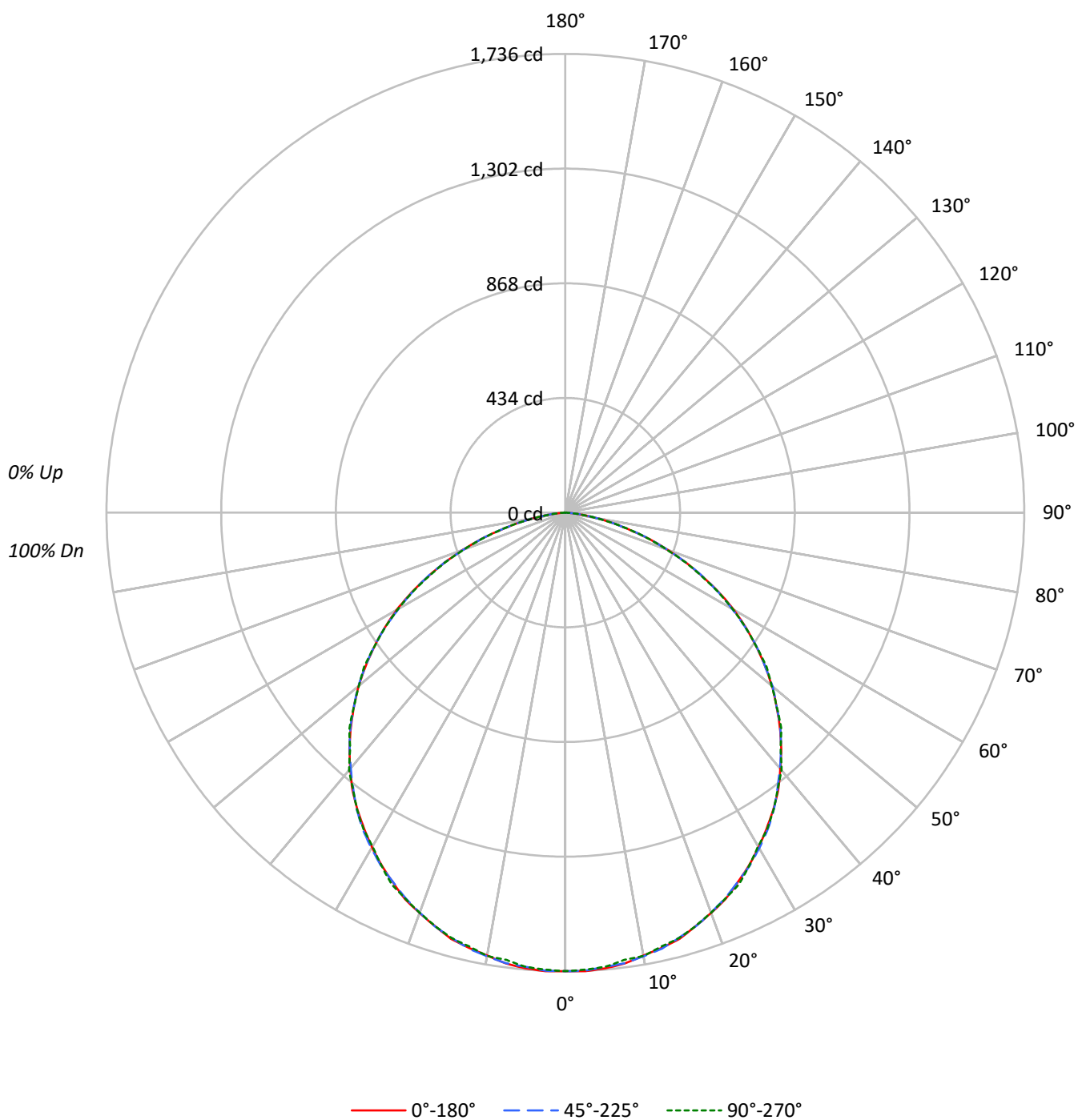
Lumens per Lamp: N/A  
Luminaire Lumens: 4762.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
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 | 103 | 99  | 95  | 98  | 95  | 92  |  | 94  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  |  | 83  | 79  | 75  |  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 88  | 79  | 72  | 66  | 76  | 70  | 64  |  | 73  | 68  | 63  |  | 71  | 66  | 62  | 60  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 54  | 51  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 57  | 51  | 47  | 44  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  | 46  | 41  | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  | 41  | 36  | 34  |
| 8   | 61  | 48  | 39  | 33  | 59  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  | 34  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 31  | 27  |  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2703 | 2703 | 2703 |
| 5°  | 2707 | 2698 | 2698 |
| 10° | 2692 | 2697 | 2694 |
| 15° | 2694 | 2685 | 2687 |
| 20° | 2673 | 2671 | 2671 |
| 25° | 2653 | 2651 | 2670 |
| 30° | 2630 | 2638 | 2623 |
| 35° | 2608 | 2613 | 2611 |
| 40° | 2573 | 2568 | 2587 |
| 45° | 2527 | 2533 | 2545 |
| 50° | 2473 | 2479 | 2469 |
| 55° | 2393 | 2397 | 2393 |
| 60° | 2295 | 2270 | 2278 |
| 65° | 2116 | 2122 | 2096 |
| 70° | 1875 | 1863 | 1856 |
| 75° | 1525 | 1541 | 1534 |
| 80° | 1087 | 1087 | 1075 |
| 85° | 517  | 517  | 542  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2545 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.0  | 3.4       |
| 10°-20°   | 469.9  | 9.9       |
| 20°-30°   | 711.9  | 14.9      |
| 30°-40°   | 857.6  | 18.0      |
| 40°-50°   | 885.5  | 18.6      |
| 50°-60°   | 787.6  | 16.5      |
| 60°-70°   | 566.6  | 11.9      |
| 70°-80°   | 273.5  | 5.7       |
| 80°-90°   | 45.4   | 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°    | 1345.8 | 28.3      |
| 0°-40°    | 2203.4 | 46.3      |
| 0°-60°    | 3876.5 | 81.4      |
| 0°-90°    | 4762.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4762.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1735 | 1735  | 1735 | 1735  | 1735 |      |
| 5°  | 1731 | 1724  | 1725 | 1721  | 1725 | 164  |
| 15° | 1670 | 1668  | 1665 | 1669  | 1666 | 470  |
| 25° | 1544 | 1544  | 1542 | 1542  | 1553 | 712  |
| 35° | 1372 | 1370  | 1374 | 1373  | 1373 | 858  |
| 45° | 1147 | 1148  | 1150 | 1148  | 1155 | 885  |
| 55° | 881  | 880   | 883  | 884   | 881  | 787  |
| 65° | 574  | 576   | 576  | 577   | 569  | 569  |
| 75° | 253  | 255   | 256  | 256   | 255  | 274  |
| 85° | 29   | 30    | 29   | 29    | 30   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1735.1 | 1735.1 | 1735.1 | 1735.1 | 1735.1 |
| 2.5°  | 1736.5 | 1735.1 | 1735.1 | 1726.8 | 1731.0 |
| 5°    | 1731.0 | 1724.1 | 1725.4 | 1721.3 | 1725.4 |
| 7.5°  | 1721.3 | 1717.2 | 1719.9 | 1710.3 | 1707.5 |
| 10°   | 1702.0 | 1703.4 | 1704.8 | 1697.9 | 1703.4 |
| 12.5° | 1686.9 | 1691.0 | 1689.6 | 1682.8 | 1681.4 |
| 15°   | 1670.4 | 1667.6 | 1664.9 | 1669.0 | 1666.2 |
| 17.5° | 1640.1 | 1637.3 | 1641.4 | 1640.1 | 1640.1 |
| 20°   | 1612.5 | 1611.1 | 1611.1 | 1607.0 | 1611.1 |
| 22.5° | 1583.6 | 1579.5 | 1579.5 | 1585.0 | 1580.9 |
| 25°   | 1543.7 | 1543.7 | 1542.3 | 1542.3 | 1553.3 |
| 27.5° | 1505.1 | 1503.7 | 1507.9 | 1510.6 | 1506.5 |
| 30°   | 1462.4 | 1462.4 | 1466.6 | 1463.8 | 1458.3 |
| 32.5° | 1417.0 | 1415.6 | 1423.9 | 1419.7 | 1421.1 |
| 35°   | 1371.5 | 1370.2 | 1374.3 | 1372.9 | 1372.9 |
| 37.5° | 1323.3 | 1315.1 | 1317.8 | 1324.7 | 1319.2 |
| 40°   | 1265.5 | 1264.1 | 1262.8 | 1265.5 | 1272.4 |
| 42.5° | 1209.1 | 1206.3 | 1207.7 | 1210.4 | 1204.9 |
| 45°   | 1147.1 | 1148.5 | 1149.8 | 1148.5 | 1155.3 |
| 47.5° | 1083.7 | 1086.5 | 1083.7 | 1090.6 | 1083.7 |
| 50°   | 1020.4 | 1019.0 | 1023.1 | 1023.1 | 1019.0 |
| 52.5° | 951.5  | 952.9  | 951.5  | 957.1  | 959.8  |
| 55°   | 881.3  | 879.9  | 882.7  | 884.1  | 881.3  |
| 57.5° | 809.7  | 809.7  | 808.3  | 813.8  | 808.3  |
| 60°   | 736.7  | 731.2  | 728.5  | 731.2  | 731.2  |
| 62.5° | 656.9  | 652.7  | 652.7  | 652.7  | 652.7  |
| 65°   | 574.2  | 575.6  | 575.6  | 577.0  | 568.7  |
| 67.5° | 494.4  | 491.6  | 494.4  | 490.2  | 491.6  |
| 70°   | 411.7  | 413.1  | 409.0  | 411.7  | 407.6  |
| 72.5° | 334.6  | 334.6  | 334.6  | 331.9  | 331.9  |
| 75°   | 253.4  | 254.8  | 256.1  | 256.1  | 254.8  |
| 77.5° | 184.5  | 183.1  | 184.5  | 184.5  | 184.5  |
| 80°   | 121.2  | 118.4  | 121.2  | 119.8  | 119.8  |
| 82.5° | 67.5   | 68.9   | 68.9   | 70.2   | 70.2   |
| 85°   | 28.9   | 30.3   | 28.9   | 28.9   | 30.3   |
| 87.5° | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 15.26            | 16.87 | 15.62 | 17.19 | 17.50 | 15.28          | 16.90 | 15.65 | 17.21 | 17.52 |
|                 | 3H   | 16.82            | 18.27 | 17.19 | 18.60 | 18.96 | 16.82          | 18.28 | 17.20 | 18.60 | 18.96 |
|                 | 4H   | 17.29            | 18.66 | 17.69 | 19.01 | 19.39 | 17.29          | 18.66 | 17.69 | 19.01 | 19.39 |
|                 | 6H   | 17.54            | 18.81 | 17.95 | 19.17 | 19.56 | 17.54          | 18.81 | 17.95 | 19.17 | 19.56 |
|                 | 8H   | 17.58            | 18.79 | 18.00 | 19.18 | 19.57 | 17.58          | 18.79 | 18.01 | 19.18 | 19.58 |
|                 | 12H  | 17.58            | 18.74 | 18.01 | 19.12 | 19.55 | 17.59          | 18.74 | 18.02 | 19.13 | 19.55 |
| 4H              | 2H   | 15.84            | 17.21 | 16.24 | 17.56 | 17.93 | 15.86          | 17.23 | 16.26 | 17.57 | 17.95 |
|                 | 3H   | 17.59            | 18.73 | 18.00 | 19.13 | 19.53 | 17.59          | 18.73 | 18.00 | 19.13 | 19.53 |
|                 | 4H   | 18.16            | 19.19 | 18.59 | 19.60 | 20.04 | 18.16          | 19.19 | 18.59 | 19.60 | 20.04 |
|                 | 6H   | 18.49            | 19.38 | 18.94 | 19.82 | 20.28 | 18.49          | 19.38 | 18.94 | 19.82 | 20.28 |
|                 | 8H   | 18.54            | 19.38 | 19.00 | 19.82 | 20.29 | 18.55          | 19.38 | 19.01 | 19.83 | 20.29 |
|                 | 12H  | 18.56            | 19.31 | 19.04 | 19.78 | 20.25 | 18.57          | 19.32 | 19.05 | 19.79 | 20.26 |
| 8H              | 4H   | 18.36            | 19.20 | 18.82 | 19.64 | 20.11 | 18.36          | 19.20 | 18.82 | 19.64 | 20.11 |
|                 | 6H   | 18.75            | 19.44 | 19.24 | 19.93 | 20.40 | 18.75          | 19.44 | 19.25 | 19.93 | 20.41 |
|                 | 8H   | 18.83            | 19.45 | 19.34 | 19.96 | 20.44 | 18.84          | 19.46 | 19.35 | 19.97 | 20.45 |
|                 | 12H  | 18.87            | 19.42 | 19.38 | 19.91 | 20.47 | 18.88          | 19.43 | 19.39 | 19.92 | 20.48 |
| 12H             | 4H   | 18.37            | 19.11 | 18.85 | 19.59 | 20.06 | 18.37          | 19.12 | 18.85 | 19.59 | 20.06 |
|                 | 6H   | 18.75            | 19.37 | 19.26 | 19.88 | 20.36 | 18.75          | 19.37 | 19.26 | 19.88 | 20.37 |
|                 | 8H   | 18.87            | 19.41 | 19.37 | 19.90 | 20.47 | 18.88          | 19.42 | 19.38 | 19.91 | 20.47 |