

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: P997311

Luminaire Tested: FSP-14-L3C3-CP250-3500K-HI

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/20/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-L3C3-CP250-3500K-HI  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

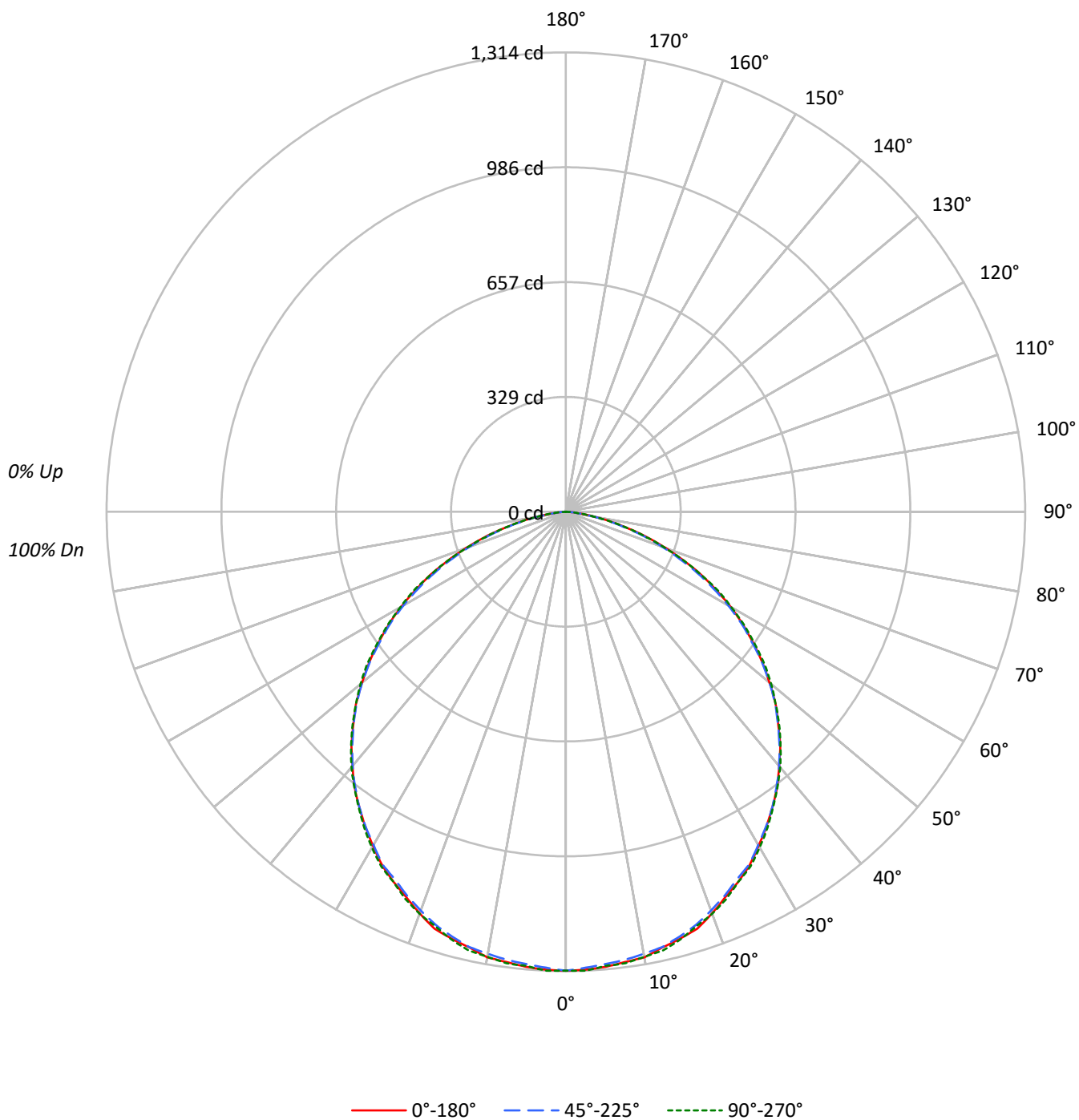
Lumens per Lamp: N/A  
Luminaire Lumens: 3553.0 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.81' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.3  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  |  | 83  | 79  | 75  |  | 80  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 66  | 60  | 55  |  | 63  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 48  | 61  | 54  | 48  |  | 59  | 52  | 47  |  | 57  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  |  | 53  | 47  | 42  |  | 52  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  |  | 49  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 33  | 46  | 38  | 33  |  | 45  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4561 | 4561 | 4561 |
| 5°  | 4557 | 4531 | 4548 |
| 10° | 4566 | 4531 | 4561 |
| 15° | 4547 | 4524 | 4556 |
| 20° | 4522 | 4489 | 4526 |
| 25° | 4477 | 4444 | 4477 |
| 30° | 4425 | 4415 | 4450 |
| 35° | 4371 | 4371 | 4382 |
| 40° | 4306 | 4306 | 4328 |
| 45° | 4223 | 4217 | 4241 |
| 50° | 4112 | 4112 | 4146 |
| 55° | 3965 | 3935 | 3995 |
| 60° | 3785 | 3733 | 3802 |
| 65° | 3522 | 3420 | 3513 |
| 70° | 3097 | 2995 | 3071 |
| 75° | 2499 | 2398 | 2499 |
| 80° | 1725 | 1675 | 1725 |
| 85° | 746  | 746  | 746  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 4247 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.0  | 3.5       |
| 10°-20°   | 355.7  | 10.0      |
| 20°-30°   | 537.1  | 15.1      |
| 30°-40°   | 644.9  | 18.1      |
| 40°-50°   | 663.1  | 18.7      |
| 50°-60°   | 585.1  | 16.5      |
| 60°-70°   | 416.4  | 11.7      |
| 70°-80°   | 196.6  | 5.5       |
| 80°-90°   | 30.2   | 0.8       |
| 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°    | 1016.8 | 28.6      |
| 0°-40°    | 1661.7 | 46.8      |
| 0°-60°    | 2909.8 | 81.9      |
| 0°-90°    | 3553.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3553.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1313 | 1313  | 1313 | 1313  | 1313 |      |
| 5°  | 1306 | 1305  | 1299 | 1309  | 1304 | 124  |
| 15° | 1264 | 1259  | 1258 | 1263  | 1266 | 357  |
| 25° | 1168 | 1160  | 1159 | 1167  | 1168 | 538  |
| 35° | 1030 | 1025  | 1030 | 1035  | 1033 | 645  |
| 45° | 859  | 857   | 858  | 864   | 863  | 663  |
| 55° | 654  | 656   | 650  | 657   | 660  | 585  |
| 65° | 428  | 422   | 416  | 422   | 427  | 421  |
| 75° | 186  | 185   | 179  | 182   | 186  | 200  |
| 85° | 19   | 20    | 19   | 19    | 19   | 31   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 |
| 2.5°  | 1311.4 | 1308.9 | 1305.2 | 1310.2 | 1313.9 |
| 5°    | 1306.4 | 1305.2 | 1298.9 | 1308.9 | 1303.9 |
| 7.5°  | 1298.9 | 1301.4 | 1292.7 | 1298.9 | 1302.7 |
| 10°   | 1294.0 | 1286.5 | 1284.0 | 1289.0 | 1292.7 |
| 12.5° | 1276.5 | 1276.5 | 1275.2 | 1276.5 | 1285.2 |
| 15°   | 1264.0 | 1259.0 | 1257.7 | 1262.7 | 1266.5 |
| 17.5° | 1250.2 | 1240.2 | 1239.0 | 1242.7 | 1242.7 |
| 20°   | 1222.8 | 1214.0 | 1214.0 | 1220.3 | 1224.0 |
| 22.5° | 1192.8 | 1191.5 | 1187.8 | 1199.0 | 1199.0 |
| 25°   | 1167.8 | 1160.3 | 1159.1 | 1166.6 | 1167.8 |
| 27.5° | 1139.1 | 1132.8 | 1136.6 | 1136.6 | 1144.1 |
| 30°   | 1102.9 | 1100.4 | 1100.4 | 1106.6 | 1109.1 |
| 32.5° | 1067.9 | 1065.4 | 1066.6 | 1070.4 | 1072.9 |
| 35°   | 1030.4 | 1025.4 | 1030.4 | 1035.4 | 1032.9 |
| 37.5° | 992.9  | 990.4  | 990.4  | 994.2  | 994.2  |
| 40°   | 949.2  | 945.5  | 949.2  | 955.5  | 954.2  |
| 42.5° | 908.0  | 903.0  | 904.3  | 910.5  | 909.3  |
| 45°   | 859.3  | 856.8  | 858.1  | 864.3  | 863.1  |
| 47.5° | 814.3  | 810.6  | 811.8  | 811.8  | 814.3  |
| 50°   | 760.6  | 760.6  | 760.6  | 764.4  | 766.9  |
| 52.5° | 709.4  | 708.2  | 706.9  | 713.2  | 716.9  |
| 55°   | 654.5  | 655.7  | 649.5  | 657.0  | 659.5  |
| 57.5° | 600.8  | 600.8  | 595.8  | 599.5  | 605.8  |
| 60°   | 544.6  | 540.8  | 537.1  | 542.1  | 547.1  |
| 62.5° | 484.6  | 482.1  | 475.9  | 479.6  | 493.4  |
| 65°   | 428.4  | 422.2  | 415.9  | 422.2  | 427.2  |
| 67.5° | 366.0  | 361.0  | 353.5  | 359.7  | 366.0  |
| 70°   | 304.8  | 301.0  | 294.8  | 298.5  | 302.3  |
| 72.5° | 246.1  | 239.8  | 234.8  | 239.8  | 242.3  |
| 75°   | 186.1  | 184.9  | 178.6  | 182.4  | 186.1  |
| 77.5° | 133.6  | 131.1  | 127.4  | 133.6  | 133.6  |
| 80°   | 86.2   | 86.2   | 83.7   | 84.9   | 86.2   |
| 82.5° | 48.7   | 46.2   | 45.0   | 47.5   | 46.2   |
| 85°   | 18.7   | 20.0   | 18.7   | 18.7   | 18.7   |
| 87.5° | 3.7    | 2.5    | 3.7    | 2.5    | 2.5    |
| 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 | 17.00            | 18.60 | 17.36 | 18.92 | 19.23 | 16.99          | 18.60 | 17.36 | 18.92 | 19.23 |
|                 | 3H   | 18.54            | 19.99 | 18.91 | 20.31 | 20.67 | 18.53          | 19.97 | 18.90 | 20.30 | 20.66 |
|                 | 4H   | 19.00            | 20.36 | 19.40 | 20.71 | 21.08 | 18.98          | 20.34 | 19.38 | 20.69 | 21.07 |
|                 | 6H   | 19.23            | 20.49 | 19.64 | 20.86 | 21.25 | 19.22          | 20.48 | 19.63 | 20.84 | 21.23 |
|                 | 8H   | 19.26            | 20.47 | 19.69 | 20.86 | 21.25 | 19.25          | 20.45 | 19.67 | 20.84 | 21.24 |
|                 | 12H  | 19.26            | 20.41 | 19.69 | 20.80 | 21.22 | 19.25          | 20.40 | 19.68 | 20.78 | 21.21 |
| 4H              | 2H   | 17.54            | 18.90 | 17.94 | 19.25 | 19.63 | 17.54          | 18.90 | 17.94 | 19.25 | 19.63 |
|                 | 3H   | 19.27            | 20.40 | 19.68 | 20.80 | 21.20 | 19.26          | 20.39 | 19.67 | 20.79 | 21.19 |
|                 | 4H   | 19.82            | 20.84 | 20.26 | 21.26 | 21.70 | 19.80          | 20.83 | 20.24 | 21.24 | 21.68 |
|                 | 6H   | 20.14            | 21.03 | 20.59 | 21.47 | 21.92 | 20.12          | 21.01 | 20.58 | 21.45 | 21.91 |
|                 | 8H   | 20.19            | 21.02 | 20.65 | 21.46 | 21.93 | 20.17          | 21.00 | 20.63 | 21.44 | 21.91 |
|                 | 12H  | 20.20            | 20.94 | 20.68 | 21.42 | 21.89 | 20.18          | 20.92 | 20.66 | 21.40 | 21.87 |
| 8H              | 4H   | 20.01            | 20.84 | 20.47 | 21.28 | 21.74 | 19.99          | 20.82 | 20.45 | 21.26 | 21.73 |
|                 | 6H   | 20.37            | 21.06 | 20.87 | 21.55 | 22.02 | 20.36          | 21.05 | 20.86 | 21.54 | 22.01 |
|                 | 8H   | 20.45            | 21.06 | 20.96 | 21.57 | 22.05 | 20.43          | 21.05 | 20.94 | 21.55 | 22.04 |
|                 | 12H  | 20.48            | 21.02 | 20.98 | 21.51 | 22.07 | 20.46          | 21.00 | 20.97 | 21.49 | 22.05 |
| 12H             | 4H   | 20.01            | 20.75 | 20.49 | 21.23 | 21.70 | 19.99          | 20.73 | 20.47 | 21.21 | 21.68 |
|                 | 6H   | 20.37            | 20.99 | 20.88 | 21.49 | 21.98 | 20.36          | 20.97 | 20.87 | 21.48 | 21.97 |
|                 | 8H   | 20.47            | 21.02 | 20.98 | 21.51 | 22.07 | 20.46          | 21.00 | 20.97 | 21.49 | 22.05 |