

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: P997299

Luminaire Tested: FSP-14-L3C3-CP187-3000K-HI

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/20/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-L3C3-CP187-3000K-HI  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

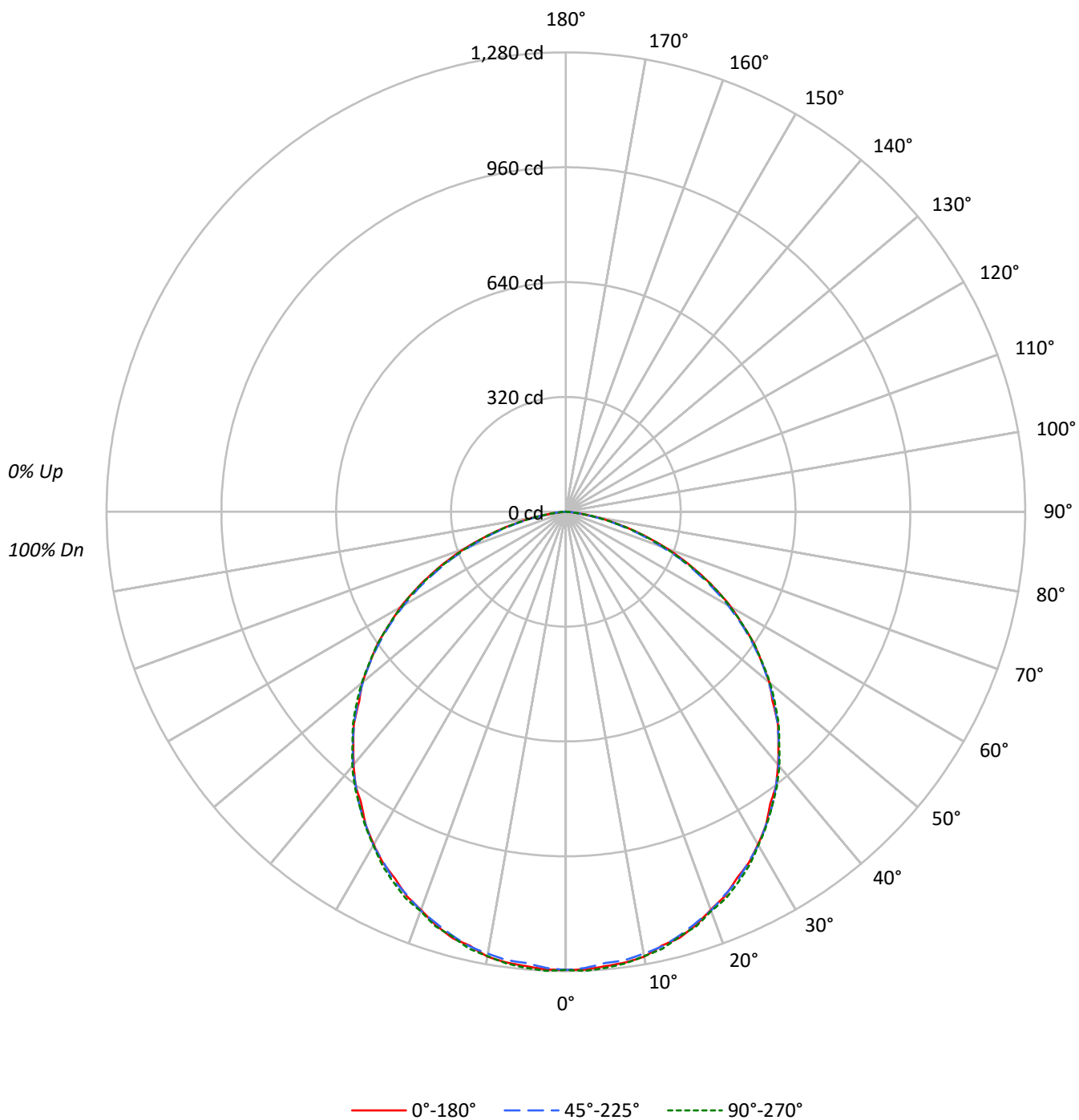
Lumens per Lamp: N/A  
Luminaire Lumens: 3456.0 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.81' x L: 3.81' x H: 0')  
CIE Type: Direct

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  | 59  | 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  | 34  | 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°  | 4436 | 4436 | 4436 |
| 5°  | 4432 | 4403 | 4449 |
| 10° | 4441 | 4411 | 4437 |
| 15° | 4419 | 4398 | 4407 |
| 20° | 4365 | 4373 | 4378 |
| 25° | 4322 | 4345 | 4364 |
| 30° | 4296 | 4305 | 4305 |
| 35° | 4214 | 4250 | 4250 |
| 40° | 4173 | 4184 | 4200 |
| 45° | 4106 | 4100 | 4123 |
| 50° | 4001 | 3988 | 4015 |
| 55° | 3878 | 3834 | 3871 |
| 60° | 3695 | 3628 | 3670 |
| 65° | 3420 | 3311 | 3390 |
| 70° | 3050 | 2890 | 2989 |
| 75° | 2477 | 2331 | 2443 |
| 80° | 1713 | 1593 | 1689 |
| 85° | 817  | 722  | 769  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4123 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.7  | 3.5       |
| 10°-20°   | 345.5  | 10.0      |
| 20°-30°   | 522.1  | 15.1      |
| 30°-40°   | 626.7  | 18.1      |
| 40°-50°   | 644.7  | 18.7      |
| 50°-60°   | 568.5  | 16.4      |
| 60°-70°   | 405.3  | 11.7      |
| 70°-80°   | 192.5  | 5.6       |
| 80°-90°   | 30.0   | 0.9       |
| 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°    | 988.3  | 28.6      |
| 0°-40°    | 1615.0 | 46.7      |
| 0°-60°    | 2828.2 | 81.8      |
| 0°-90°    | 3456.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3456.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1277 | 1277  | 1277 | 1277  | 1277 |      |
| 5°  | 1271 | 1271  | 1262 | 1272  | 1276 | 121  |
| 15° | 1228 | 1224  | 1222 | 1226  | 1225 | 346  |
| 25° | 1127 | 1131  | 1133 | 1136  | 1138 | 521  |
| 35° | 993  | 1001  | 1002 | 1007  | 1002 | 624  |
| 45° | 836  | 839   | 834  | 839   | 839  | 641  |
| 55° | 640  | 640   | 633  | 637   | 639  | 569  |
| 65° | 416  | 414   | 403  | 409   | 412  | 411  |
| 75° | 184  | 183   | 174  | 176   | 182  | 198  |
| 85° | 20   | 19    | 18   | 18    | 19   | 31   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1276.7 | 1276.7 | 1276.7 | 1276.7 | 1276.7 |
| 2.5°  | 1276.7 | 1274.3 | 1271.9 | 1275.5 | 1280.3 |
| 5°    | 1270.7 | 1270.7 | 1262.3 | 1271.9 | 1275.5 |
| 7.5°  | 1267.1 | 1259.9 | 1259.9 | 1264.7 | 1269.5 |
| 10°   | 1258.6 | 1251.4 | 1250.2 | 1255.0 | 1257.4 |
| 12.5° | 1238.2 | 1238.2 | 1240.6 | 1241.8 | 1246.6 |
| 15°   | 1228.5 | 1223.7 | 1222.5 | 1226.1 | 1224.9 |
| 17.5° | 1206.8 | 1203.2 | 1202.0 | 1209.2 | 1210.4 |
| 20°   | 1180.3 | 1181.5 | 1182.7 | 1183.9 | 1183.9 |
| 22.5° | 1158.6 | 1159.8 | 1156.2 | 1168.2 | 1165.8 |
| 25°   | 1127.2 | 1130.9 | 1133.3 | 1135.7 | 1138.1 |
| 27.5° | 1103.1 | 1100.7 | 1100.7 | 1105.5 | 1109.2 |
| 30°   | 1070.6 | 1069.4 | 1073.0 | 1075.4 | 1073.0 |
| 32.5° | 1036.8 | 1038.0 | 1036.8 | 1040.4 | 1039.2 |
| 35°   | 993.4  | 1000.6 | 1001.9 | 1006.7 | 1001.9 |
| 37.5° | 962.1  | 962.1  | 962.1  | 965.7  | 965.7  |
| 40°   | 919.9  | 923.5  | 922.3  | 929.5  | 925.9  |
| 42.5° | 876.5  | 880.1  | 878.9  | 887.3  | 880.1  |
| 45°   | 835.5  | 839.1  | 834.3  | 839.1  | 839.1  |
| 47.5° | 781.2  | 787.3  | 786.1  | 794.5  | 790.9  |
| 50°   | 740.2  | 745.1  | 737.8  | 741.4  | 742.7  |
| 52.5° | 687.2  | 692.0  | 687.2  | 689.6  | 689.6  |
| 55°   | 640.2  | 640.2  | 632.9  | 636.6  | 639.0  |
| 57.5° | 582.3  | 585.9  | 578.7  | 581.1  | 583.5  |
| 60°   | 531.7  | 530.5  | 522.0  | 523.2  | 528.1  |
| 62.5° | 473.8  | 472.6  | 464.2  | 465.4  | 472.6  |
| 65°   | 415.9  | 413.5  | 402.7  | 408.7  | 412.3  |
| 67.5° | 358.1  | 356.9  | 346.0  | 347.2  | 352.0  |
| 70°   | 300.2  | 299.0  | 284.5  | 289.3  | 294.2  |
| 72.5° | 241.1  | 239.9  | 229.1  | 232.7  | 238.7  |
| 75°   | 184.5  | 183.3  | 173.6  | 176.0  | 182.0  |
| 77.5° | 133.8  | 130.2  | 124.2  | 127.8  | 131.4  |
| 80°   | 85.6   | 85.6   | 79.6   | 83.2   | 84.4   |
| 82.5° | 47.0   | 47.0   | 44.6   | 45.8   | 47.0   |
| 85°   | 20.5   | 19.3   | 18.1   | 18.1   | 19.3   |
| 87.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 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 | 16.91            | 18.52 | 17.28 | 18.84 | 19.15 | 16.86          | 18.47 | 17.23 | 18.79 | 19.10 |
|                 | 3H   | 18.48            | 19.93 | 18.86 | 20.26 | 20.62 | 18.39          | 19.84 | 18.77 | 20.17 | 20.53 |
|                 | 4H   | 18.96            | 20.32 | 19.35 | 20.67 | 21.04 | 18.86          | 20.22 | 19.25 | 20.57 | 20.94 |
|                 | 6H   | 19.20            | 20.46 | 19.61 | 20.82 | 21.22 | 19.10          | 20.36 | 19.51 | 20.72 | 21.11 |
|                 | 8H   | 19.23            | 20.43 | 19.66 | 20.82 | 21.22 | 19.13          | 20.33 | 19.56 | 20.72 | 21.12 |
|                 | 12H  | 19.23            | 20.38 | 19.66 | 20.76 | 21.19 | 19.13          | 20.28 | 19.56 | 20.66 | 21.09 |
| 4H              | 2H   | 17.45            | 18.81 | 17.85 | 19.16 | 19.54 | 17.41          | 18.78 | 17.81 | 19.12 | 19.50 |
|                 | 3H   | 19.21            | 20.35 | 19.62 | 20.74 | 21.14 | 19.12          | 20.26 | 19.53 | 20.66 | 21.06 |
|                 | 4H   | 19.78            | 20.80 | 20.21 | 21.22 | 21.65 | 19.68          | 20.70 | 20.11 | 21.11 | 21.55 |
|                 | 6H   | 20.11            | 21.00 | 20.56 | 21.44 | 21.89 | 20.00          | 20.89 | 20.45 | 21.33 | 21.79 |
|                 | 8H   | 20.16            | 20.99 | 20.62 | 21.43 | 21.90 | 20.05          | 20.88 | 20.51 | 21.32 | 21.79 |
|                 | 12H  | 20.17            | 20.91 | 20.65 | 21.39 | 21.86 | 20.06          | 20.81 | 20.54 | 21.28 | 21.75 |
| 8H              | 4H   | 19.96            | 20.79 | 20.42 | 21.23 | 21.70 | 19.87          | 20.70 | 20.33 | 21.14 | 21.60 |
|                 | 6H   | 20.34            | 21.03 | 20.83 | 21.51 | 21.99 | 20.24          | 20.93 | 20.74 | 21.42 | 21.89 |
|                 | 8H   | 20.41            | 21.03 | 20.93 | 21.54 | 22.02 | 20.32          | 20.93 | 20.83 | 21.44 | 21.92 |
|                 | 12H  | 20.45            | 20.99 | 20.96 | 21.48 | 22.04 | 20.35          | 20.89 | 20.85 | 21.38 | 21.94 |
| 12H             | 4H   | 19.96            | 20.70 | 20.44 | 21.18 | 21.65 | 19.87          | 20.61 | 20.35 | 21.09 | 21.56 |
|                 | 6H   | 20.34            | 20.95 | 20.85 | 21.46 | 21.94 | 20.24          | 20.85 | 20.75 | 21.36 | 21.85 |
|                 | 8H   | 20.44            | 20.98 | 20.95 | 21.47 | 22.04 | 20.34          | 20.89 | 20.85 | 21.38 | 21.94 |