

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: P997380

Luminaire Tested: FSP-24-L3C3-CA08-3000K-HI

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/20/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-L3C3-CA08-3000K-HI  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

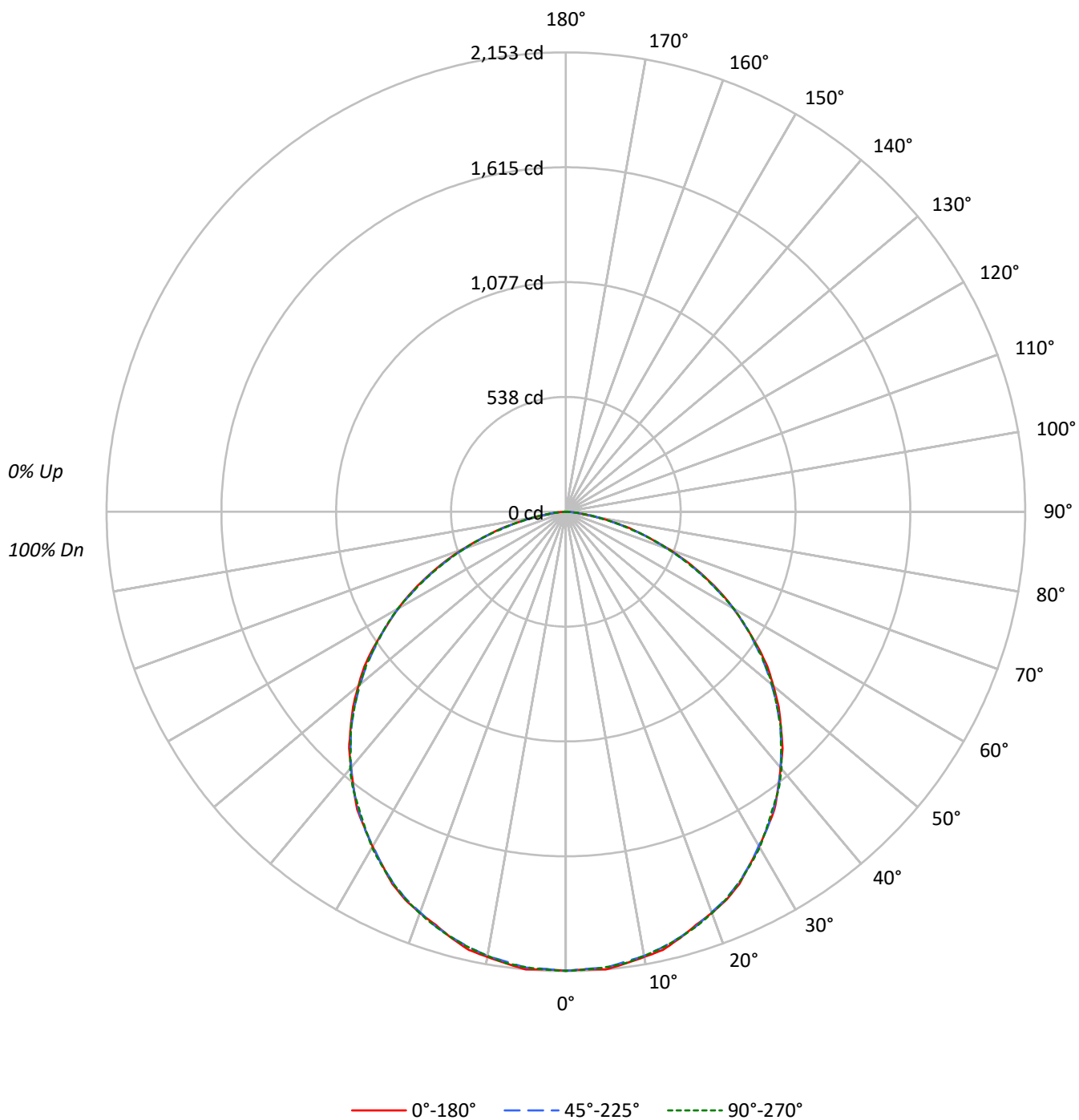
Lumens per Lamp: N/A  
Luminaire Lumens: 5899.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.5  
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 | 102 | 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°  | 3351 | 3351 | 3351 |
| 5°  | 3367 | 3353 | 3351 |
| 10° | 3351 | 3343 | 3343 |
| 15° | 3335 | 3330 | 3333 |
| 20° | 3316 | 3311 | 3319 |
| 25° | 3308 | 3296 | 3299 |
| 30° | 3259 | 3253 | 3268 |
| 35° | 3241 | 3228 | 3218 |
| 40° | 3184 | 3184 | 3198 |
| 45° | 3140 | 3129 | 3137 |
| 50° | 3077 | 3048 | 3060 |
| 55° | 2973 | 2940 | 2954 |
| 60° | 2828 | 2828 | 2833 |
| 65° | 2637 | 2611 | 2605 |
| 70° | 2351 | 2304 | 2311 |
| 75° | 1970 | 1908 | 1887 |
| 80° | 1352 | 1352 | 1367 |
| 85° | 711  | 711  | 774  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3140 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 203.5  | 3.5       |
| 10°-20°   | 582.8  | 9.9       |
| 20°-30°   | 882.8  | 15.0      |
| 30°-40°   | 1061.6 | 18.0      |
| 40°-50°   | 1095.9 | 18.6      |
| 50°-60°   | 973.5  | 16.5      |
| 60°-70°   | 700.7  | 11.9      |
| 70°-80°   | 339.1  | 5.7       |
| 80°-90°   | 59.1   | 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°    | 1669.1 | 28.3      |
| 0°-40°    | 2730.8 | 46.3      |
| 0°-60°    | 4800.1 | 81.4      |
| 0°-90°    | 5899.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5899.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2151 | 2151  | 2151 | 2151  | 2151 |      |
| 5°  | 2153 | 2148  | 2144 | 2138  | 2143 | 204  |
| 15° | 2068 | 2066  | 2065 | 2060  | 2066 | 584  |
| 25° | 1924 | 1916  | 1918 | 1918  | 1919 | 884  |
| 35° | 1704 | 1699  | 1698 | 1699  | 1692 | 1062 |
| 45° | 1426 | 1424  | 1420 | 1420  | 1424 | 1100 |
| 55° | 1095 | 1093  | 1083 | 1088  | 1088 | 977  |
| 65° | 715  | 710   | 708  | 702   | 707  | 707  |
| 75° | 327  | 320   | 317  | 315   | 314  | 344  |
| 85° | 40   | 40    | 40   | 40    | 43   | 59   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2151.4 | 2151.4 | 2151.4 | 2151.4 | 2151.4 |
| 2.5°  | 2146.2 | 2146.2 | 2144.5 | 2146.2 | 2148.0 |
| 5°    | 2153.2 | 2148.0 | 2144.5 | 2137.6 | 2142.8 |
| 7.5°  | 2135.8 | 2130.6 | 2127.2 | 2122.0 | 2134.1 |
| 10°   | 2118.5 | 2118.5 | 2113.3 | 2104.7 | 2113.3 |
| 12.5° | 2102.9 | 2092.5 | 2090.8 | 2089.1 | 2092.5 |
| 15°   | 2068.3 | 2066.5 | 2064.8 | 2059.6 | 2066.5 |
| 17.5° | 2030.2 | 2035.4 | 2035.4 | 2035.4 | 2037.1 |
| 20°   | 2000.7 | 1997.3 | 1997.3 | 1997.3 | 2002.5 |
| 22.5° | 1967.8 | 1960.9 | 1962.6 | 1955.7 | 1964.3 |
| 25°   | 1924.5 | 1915.8 | 1917.6 | 1917.6 | 1919.3 |
| 27.5° | 1865.6 | 1865.6 | 1865.6 | 1867.3 | 1869.1 |
| 30°   | 1811.9 | 1815.4 | 1808.4 | 1806.7 | 1817.1 |
| 32.5° | 1756.5 | 1756.5 | 1758.2 | 1751.3 | 1753.0 |
| 35°   | 1704.5 | 1699.3 | 1697.6 | 1699.3 | 1692.4 |
| 37.5° | 1633.5 | 1637.0 | 1635.2 | 1633.5 | 1638.7 |
| 40°   | 1565.9 | 1571.1 | 1565.9 | 1564.2 | 1572.9 |
| 42.5° | 1503.6 | 1498.4 | 1493.2 | 1489.7 | 1493.2 |
| 45°   | 1425.6 | 1423.9 | 1420.4 | 1420.4 | 1423.9 |
| 47.5° | 1352.9 | 1349.4 | 1340.7 | 1339.0 | 1340.7 |
| 50°   | 1269.7 | 1266.3 | 1257.6 | 1264.5 | 1262.8 |
| 52.5° | 1190.0 | 1183.1 | 1174.4 | 1177.9 | 1177.9 |
| 55°   | 1094.8 | 1093.0 | 1082.6 | 1087.8 | 1087.8 |
| 57.5° | 996.0  | 1003.0 | 999.5  | 997.8  | 999.5  |
| 60°   | 907.7  | 912.9  | 907.7  | 902.5  | 909.4  |
| 62.5° | 815.9  | 812.4  | 805.5  | 805.5  | 805.5  |
| 65°   | 715.4  | 710.2  | 708.5  | 701.6  | 706.7  |
| 67.5° | 616.7  | 611.5  | 608.0  | 606.3  | 606.3  |
| 70°   | 516.2  | 512.7  | 505.8  | 504.1  | 507.5  |
| 72.5° | 412.3  | 414.0  | 410.5  | 407.1  | 412.3  |
| 75°   | 327.4  | 320.5  | 317.0  | 315.3  | 313.5  |
| 77.5° | 232.1  | 228.7  | 226.9  | 226.9  | 228.7  |
| 80°   | 150.7  | 150.7  | 150.7  | 150.7  | 152.4  |
| 82.5° | 86.6   | 88.3   | 86.6   | 90.1   | 91.8   |
| 85°   | 39.8   | 39.8   | 39.8   | 39.8   | 43.3   |
| 87.5° | 13.9   | 12.1   | 12.1   | 13.9   | 13.9   |
| 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 | 15.99            | 17.61 | 16.36 | 17.92 | 18.24 | 15.97          | 17.58 | 16.33 | 17.90 | 18.21 |
|                 | 3H   | 17.57            | 19.03 | 17.95 | 19.36 | 19.72 | 17.52          | 18.98 | 17.90 | 19.30 | 19.66 |
|                 | 4H   | 18.07            | 19.44 | 18.46 | 19.78 | 20.16 | 18.00          | 19.36 | 18.39 | 19.71 | 20.09 |
|                 | 6H   | 18.32            | 19.59 | 18.73 | 19.95 | 20.34 | 18.25          | 19.52 | 18.66 | 19.88 | 20.27 |
|                 | 8H   | 18.36            | 19.57 | 18.78 | 19.96 | 20.36 | 18.30          | 19.51 | 18.72 | 19.89 | 20.29 |
|                 | 12H  | 18.37            | 19.52 | 18.79 | 19.90 | 20.33 | 18.31          | 19.47 | 18.74 | 19.85 | 20.28 |
| 4H              | 2H   | 16.57            | 17.94 | 16.97 | 18.29 | 18.66 | 16.55          | 17.92 | 16.94 | 18.26 | 18.64 |
|                 | 3H   | 18.34            | 19.48 | 18.75 | 19.87 | 20.27 | 18.28          | 19.43 | 18.69 | 19.82 | 20.22 |
|                 | 4H   | 18.92            | 19.95 | 19.36 | 20.37 | 20.80 | 18.86          | 19.89 | 19.29 | 20.30 | 20.74 |
|                 | 6H   | 19.26            | 20.16 | 19.71 | 20.60 | 21.05 | 19.20          | 20.09 | 19.65 | 20.53 | 20.99 |
|                 | 8H   | 19.32            | 20.16 | 19.78 | 20.60 | 21.06 | 19.26          | 20.10 | 19.72 | 20.54 | 21.01 |
|                 | 12H  | 19.34            | 20.09 | 19.82 | 20.57 | 21.04 | 19.29          | 20.04 | 19.77 | 20.52 | 20.99 |
| 8H              | 4H   | 19.12            | 19.96 | 19.59 | 20.40 | 20.87 | 19.06          | 19.90 | 19.53 | 20.34 | 20.81 |
|                 | 6H   | 19.52            | 20.21 | 20.01 | 20.70 | 21.18 | 19.46          | 20.16 | 19.96 | 20.64 | 21.12 |
|                 | 8H   | 19.61            | 20.23 | 20.12 | 20.74 | 21.22 | 19.56          | 20.18 | 20.07 | 20.69 | 21.18 |
|                 | 12H  | 19.66            | 20.20 | 20.16 | 20.69 | 21.25 | 19.62          | 20.16 | 20.12 | 20.65 | 21.22 |
| 12H             | 4H   | 19.13            | 19.88 | 19.61 | 20.35 | 20.82 | 19.07          | 19.82 | 19.55 | 20.29 | 20.76 |
|                 | 6H   | 19.52            | 20.14 | 20.03 | 20.65 | 21.14 | 19.47          | 20.09 | 19.98 | 20.60 | 21.08 |
|                 | 8H   | 19.65            | 20.19 | 20.15 | 20.68 | 21.25 | 19.60          | 20.15 | 20.11 | 20.64 | 21.20 |