

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: P997392

Luminaire Tested: FSP-24-L3C3-CA125-3500K-HI

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997392  
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-CA125-3500K-HI  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

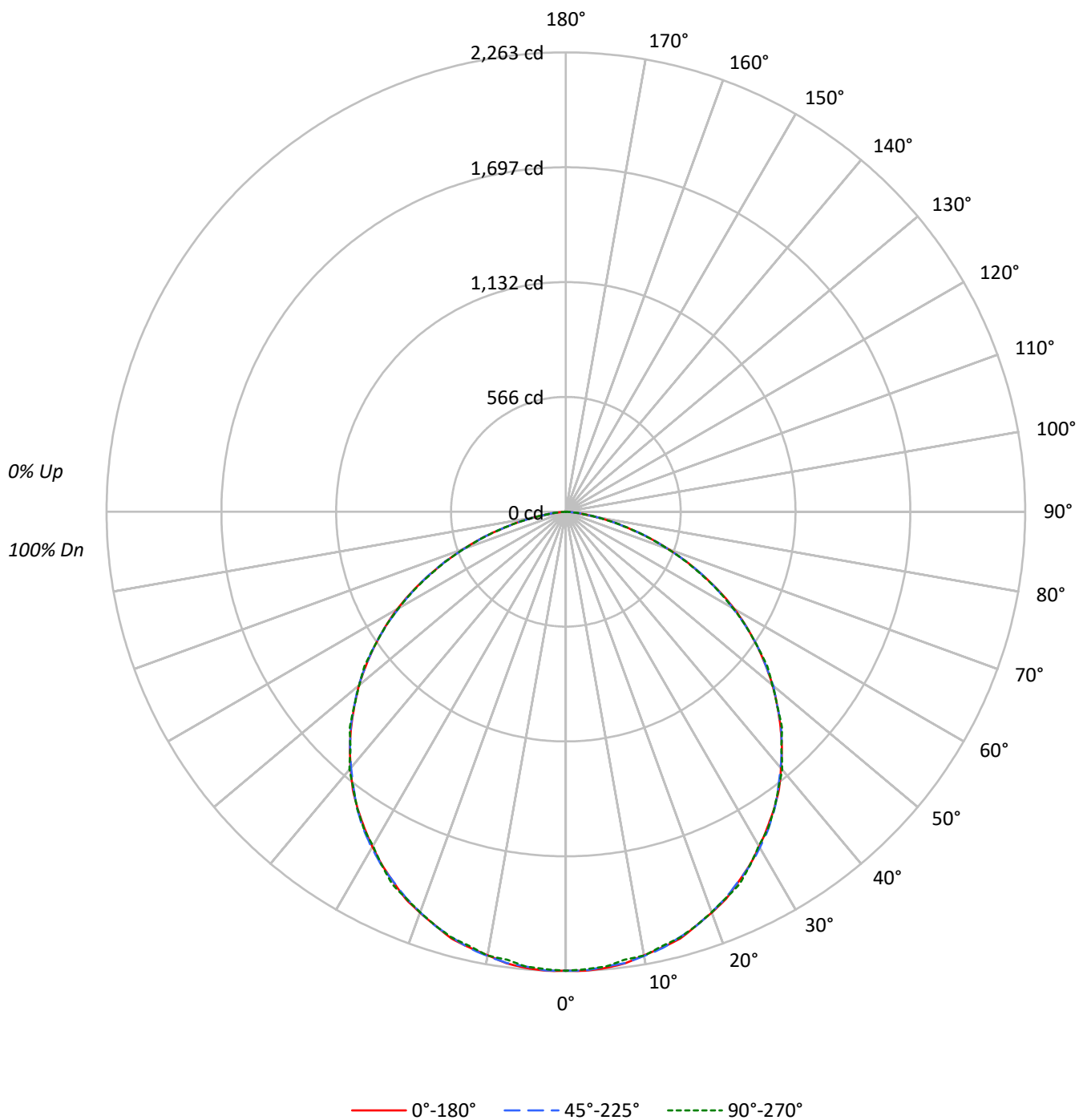
Lumens per Lamp: N/A  
Luminaire Lumens: 6206.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')  
CIE Type: Direct

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  |
| 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  | 95  | 98  | 95  | 92  |  | 94  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  |  | 83  | 79  | 75  |  | 80  |
| 3   | 91  | 81  | 73  | 66  | 88  | 79  | 72  | 66  | 76  | 70  | 64  |  | 73  | 68  | 63  |  | 71  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 57  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 33  | 59  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 31  | 27  |  | 37  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3522 | 3522 | 3522 |
| 5°  | 3527 | 3516 | 3516 |
| 10° | 3508 | 3514 | 3511 |
| 15° | 3511 | 3499 | 3502 |
| 20° | 3484 | 3481 | 3481 |
| 25° | 3458 | 3455 | 3479 |
| 30° | 3428 | 3438 | 3418 |
| 35° | 3399 | 3406 | 3402 |
| 40° | 3354 | 3346 | 3372 |
| 45° | 3293 | 3301 | 3317 |
| 50° | 3223 | 3231 | 3218 |
| 55° | 3119 | 3124 | 3119 |
| 60° | 2991 | 2958 | 2969 |
| 65° | 2758 | 2765 | 2732 |
| 70° | 2444 | 2427 | 2419 |
| 75° | 1987 | 2009 | 1998 |
| 80° | 1416 | 1416 | 1400 |
| 85° | 674  | 674  | 706  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3317 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 213.7  | 3.4       |
| 10°-20°   | 612.4  | 9.9       |
| 20°-30°   | 927.8  | 14.9      |
| 30°-40°   | 1117.6 | 18.0      |
| 40°-50°   | 1154.0 | 18.6      |
| 50°-60°   | 1026.5 | 16.5      |
| 60°-70°   | 738.4  | 11.9      |
| 70°-80°   | 356.5  | 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°    | 1753.9 | 28.3      |
| 0°-40°    | 2871.5 | 46.3      |
| 0°-60°    | 5052.0 | 81.4      |
| 0°-90°    | 6206.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6206.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2261 | 2261  | 2261 | 2261  | 2261 |      |
| 5°  | 2256 | 2247  | 2249 | 2243  | 2249 | 214  |
| 15° | 2177 | 2173  | 2170 | 2175  | 2172 | 613  |
| 25° | 2012 | 2012  | 2010 | 2010  | 2024 | 928  |
| 35° | 1787 | 1786  | 1791 | 1789  | 1789 | 1118 |
| 45° | 1495 | 1497  | 1498 | 1497  | 1506 | 1153 |
| 55° | 1149 | 1147  | 1150 | 1152  | 1149 | 1026 |
| 65° | 748  | 750   | 750  | 752   | 741  | 741  |
| 75° | 330  | 332   | 334  | 334   | 332  | 357  |
| 85° | 38   | 40    | 38   | 38    | 40   | 59   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2261.2 | 2261.2 | 2261.2 | 2261.2 | 2261.2 |
| 2.5°  | 2263.0 | 2261.2 | 2261.2 | 2250.5 | 2255.8 |
| 5°    | 2255.8 | 2246.9 | 2248.7 | 2243.3 | 2248.7 |
| 7.5°  | 2243.3 | 2237.9 | 2241.5 | 2228.9 | 2225.3 |
| 10°   | 2218.1 | 2219.9 | 2221.7 | 2212.8 | 2219.9 |
| 12.5° | 2198.4 | 2203.8 | 2202.0 | 2193.0 | 2191.2 |
| 15°   | 2176.9 | 2173.3 | 2169.7 | 2175.1 | 2171.5 |
| 17.5° | 2137.4 | 2133.8 | 2139.2 | 2137.4 | 2137.4 |
| 20°   | 2101.5 | 2099.7 | 2099.7 | 2094.3 | 2099.7 |
| 22.5° | 2063.8 | 2058.4 | 2058.4 | 2065.6 | 2060.2 |
| 25°   | 2011.8 | 2011.8 | 2010.0 | 2010.0 | 2024.3 |
| 27.5° | 1961.5 | 1959.7 | 1965.1 | 1968.7 | 1963.3 |
| 30°   | 1905.9 | 1905.9 | 1911.3 | 1907.7 | 1900.5 |
| 32.5° | 1846.7 | 1844.9 | 1855.6 | 1850.3 | 1852.0 |
| 35°   | 1787.4 | 1785.6 | 1791.0 | 1789.2 | 1789.2 |
| 37.5° | 1724.6 | 1713.9 | 1717.5 | 1726.4 | 1719.2 |
| 40°   | 1649.3 | 1647.5 | 1645.7 | 1649.3 | 1658.2 |
| 42.5° | 1575.7 | 1572.1 | 1573.9 | 1577.5 | 1570.3 |
| 45°   | 1494.9 | 1496.7 | 1498.5 | 1496.7 | 1505.7 |
| 47.5° | 1412.4 | 1416.0 | 1412.4 | 1421.3 | 1412.4 |
| 50°   | 1329.8 | 1328.0 | 1333.4 | 1333.4 | 1328.0 |
| 52.5° | 1240.1 | 1241.9 | 1240.1 | 1247.3 | 1250.8 |
| 55°   | 1148.6 | 1146.8 | 1150.4 | 1152.1 | 1148.6 |
| 57.5° | 1055.2 | 1055.2 | 1053.4 | 1060.6 | 1053.4 |
| 60°   | 960.1  | 952.9  | 949.4  | 952.9  | 952.9  |
| 62.5° | 856.0  | 850.6  | 850.6  | 850.6  | 850.6  |
| 65°   | 748.4  | 750.2  | 750.2  | 751.9  | 741.2  |
| 67.5° | 644.3  | 640.7  | 644.3  | 638.9  | 640.7  |
| 70°   | 536.6  | 538.4  | 533.0  | 536.6  | 531.2  |
| 72.5° | 436.1  | 436.1  | 436.1  | 432.5  | 432.5  |
| 75°   | 330.2  | 332.0  | 333.8  | 333.8  | 332.0  |
| 77.5° | 240.5  | 238.7  | 240.5  | 240.5  | 240.5  |
| 80°   | 157.9  | 154.3  | 157.9  | 156.1  | 156.1  |
| 82.5° | 87.9   | 89.7   | 89.7   | 91.5   | 91.5   |
| 85°   | 37.7   | 39.5   | 37.7   | 37.7   | 39.5   |
| 87.5° | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   |
| 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 | 16.18            | 17.79 | 16.54 | 18.11 | 18.42 | 16.20          | 17.82 | 16.57 | 18.13 | 18.45 |
|                 | 3H   | 17.74            | 19.19 | 18.11 | 19.52 | 19.88 | 17.74          | 19.20 | 18.12 | 19.52 | 19.88 |
|                 | 4H   | 18.21            | 19.58 | 18.61 | 19.93 | 20.31 | 18.21          | 19.58 | 18.61 | 19.93 | 20.31 |
|                 | 6H   | 18.46            | 19.73 | 18.87 | 20.09 | 20.48 | 18.46          | 19.73 | 18.87 | 20.09 | 20.48 |
|                 | 8H   | 18.50            | 19.71 | 18.92 | 20.10 | 20.50 | 18.50          | 19.71 | 18.93 | 20.10 | 20.50 |
|                 | 12H  | 18.50            | 19.66 | 18.93 | 20.04 | 20.47 | 18.51          | 19.66 | 18.94 | 20.05 | 20.47 |
| 4H              | 2H   | 16.76            | 18.13 | 17.16 | 18.48 | 18.85 | 16.78          | 18.15 | 17.18 | 18.49 | 18.87 |
|                 | 3H   | 18.51            | 19.65 | 18.92 | 20.05 | 20.45 | 18.51          | 19.65 | 18.92 | 20.05 | 20.45 |
|                 | 4H   | 19.08            | 20.11 | 19.51 | 20.52 | 20.96 | 19.08          | 20.11 | 19.51 | 20.52 | 20.96 |
|                 | 6H   | 19.41            | 20.30 | 19.86 | 20.74 | 21.20 | 19.41          | 20.30 | 19.86 | 20.74 | 21.20 |
|                 | 8H   | 19.46            | 20.30 | 19.92 | 20.74 | 21.21 | 19.47          | 20.30 | 19.93 | 20.75 | 21.21 |
|                 | 12H  | 19.48            | 20.23 | 19.96 | 20.70 | 21.17 | 19.49          | 20.24 | 19.97 | 20.71 | 21.18 |
| 8H              | 4H   | 19.28            | 20.12 | 19.74 | 20.56 | 21.03 | 19.28          | 20.12 | 19.74 | 20.56 | 21.03 |
|                 | 6H   | 19.67            | 20.36 | 20.16 | 20.85 | 21.32 | 19.67          | 20.36 | 20.17 | 20.85 | 21.33 |
|                 | 8H   | 19.75            | 20.37 | 20.26 | 20.88 | 21.36 | 19.76          | 20.38 | 20.27 | 20.89 | 21.37 |
|                 | 12H  | 19.79            | 20.34 | 20.30 | 20.83 | 21.39 | 19.80          | 20.35 | 20.31 | 20.84 | 21.40 |
| 12H             | 4H   | 19.29            | 20.03 | 19.77 | 20.51 | 20.98 | 19.29          | 20.04 | 19.77 | 20.51 | 20.98 |
|                 | 6H   | 19.67            | 20.29 | 20.18 | 20.80 | 21.28 | 19.67          | 20.29 | 20.18 | 20.80 | 21.29 |
|                 | 8H   | 19.79            | 20.33 | 20.29 | 20.82 | 21.39 | 19.80          | 20.34 | 20.30 | 20.83 | 21.39 |