

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: P997428

Luminaire Tested: FSP-24-L3C3-CP375-3500K-HI

Issue Date: 6/20/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/20/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-L3C3-CP375-3500K-HI  
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

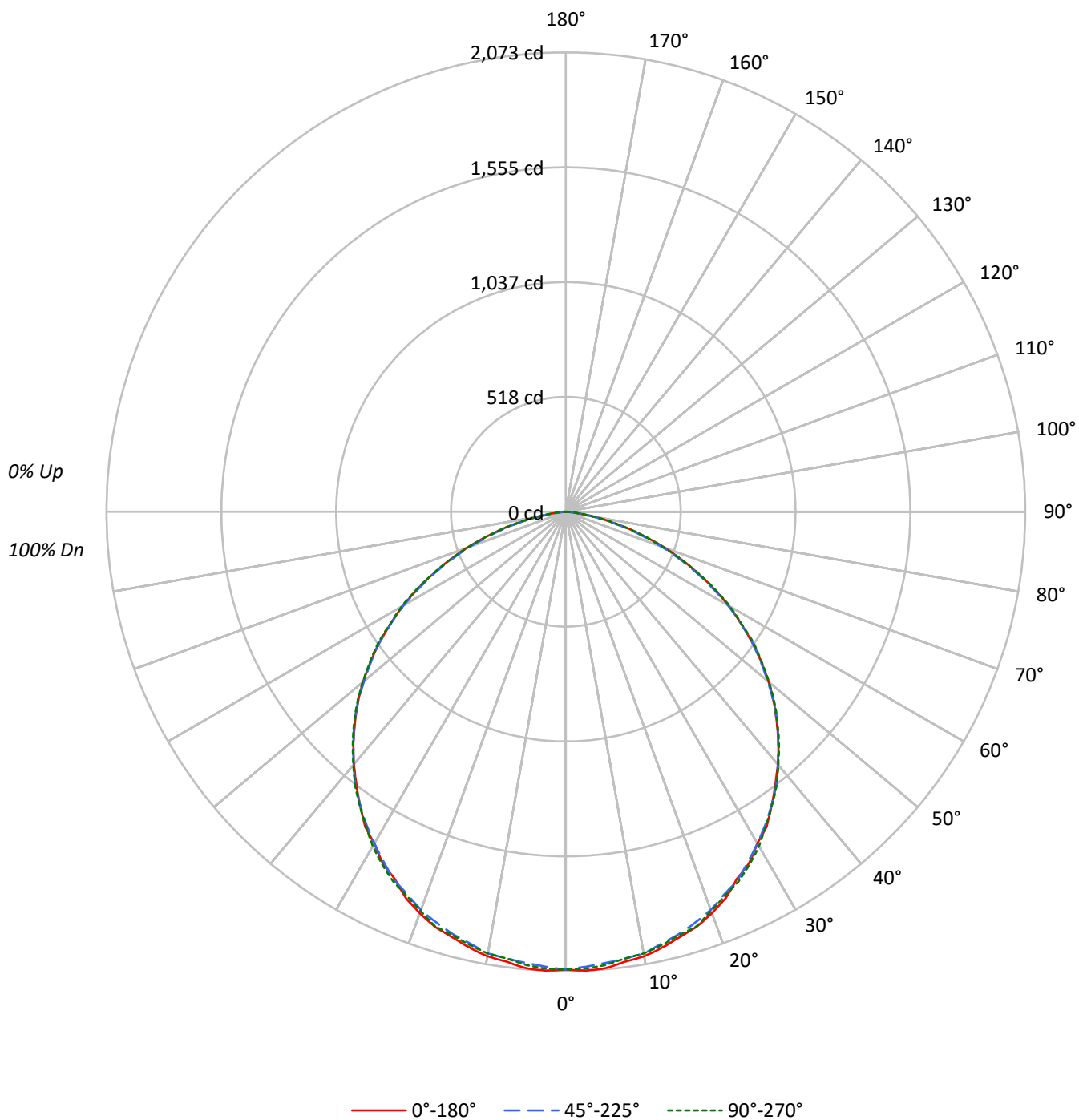
Lumens per Lamp: N/A  
Luminaire Lumens: 5558.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')  
CIE Type: Direct

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  | 96  | 98  | 95  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  |  | 83  | 79  | 75  |  | 80  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  |
| 4   | 84  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 66  | 60  | 55  |  | 64  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  |  | 59  | 53  | 48  |  | 57  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  |  | 53  | 47  | 42  |  | 52  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  |  | 49  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  |  | 45  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |
| 10  | 54  | 41  | 33  | 27  | 52  | 40  | 33  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3218 | 3218 | 3218 |
| 5°  | 3233 | 3197 | 3211 |
| 10° | 3222 | 3202 | 3202 |
| 15° | 3204 | 3181 | 3190 |
| 20° | 3195 | 3169 | 3178 |
| 25° | 3140 | 3153 | 3165 |
| 30° | 3109 | 3109 | 3135 |
| 35° | 3079 | 3075 | 3082 |
| 40° | 3026 | 3029 | 3033 |
| 45° | 2966 | 2977 | 2977 |
| 50° | 2897 | 2879 | 2901 |
| 55° | 2783 | 2788 | 2813 |
| 60° | 2645 | 2634 | 2667 |
| 65° | 2428 | 2401 | 2441 |
| 70° | 2158 | 2093 | 2150 |
| 75° | 1750 | 1674 | 1739 |
| 80° | 1207 | 1127 | 1207 |
| 85° | 545  | 481  | 513  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2981 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.2  | 3.5       |
| 10°-20°   | 558.9  | 10.1      |
| 20°-30°   | 843.9  | 15.2      |
| 30°-40°   | 1011.6 | 18.2      |
| 40°-50°   | 1038.6 | 18.7      |
| 50°-60°   | 913.5  | 16.4      |
| 60°-70°   | 646.2  | 11.6      |
| 70°-80°   | 303.4  | 5.5       |
| 80°-90°   | 46.8   | 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°    | 1598.0 | 28.8      |
| 0°-40°    | 2609.6 | 47.0      |
| 0°-60°    | 4561.7 | 82.1      |
| 0°-90°    | 5558.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5558.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2066 | 2066  | 2066 | 2066  | 2066 |      |
| 5°  | 2068 | 2062  | 2044 | 2053  | 2053 | 196  |
| 15° | 1987 | 1982  | 1973 | 1974  | 1978 | 562  |
| 25° | 1827 | 1827  | 1834 | 1829  | 1842 | 846  |
| 35° | 1619 | 1614  | 1617 | 1619  | 1621 | 1012 |
| 45° | 1346 | 1343  | 1352 | 1353  | 1352 | 1039 |
| 55° | 1025 | 1025  | 1027 | 1021  | 1036 | 915  |
| 65° | 659  | 650   | 652  | 648   | 662  | 653  |
| 75° | 291  | 282   | 278  | 282   | 289  | 311  |
| 85° | 30   | 30    | 27   | 29    | 29   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 |
| 2.5°  | 2073.1 | 2069.5 | 2055.2 | 2058.7 | 2064.1 |
| 5°    | 2067.7 | 2062.3 | 2044.4 | 2053.4 | 2053.4 |
| 7.5°  | 2048.0 | 2042.6 | 2033.6 | 2039.0 | 2033.6 |
| 10°   | 2037.2 | 2035.4 | 2024.6 | 2022.8 | 2024.6 |
| 12.5° | 2013.9 | 2008.5 | 1995.9 | 2004.9 | 2003.1 |
| 15°   | 1986.9 | 1981.6 | 1972.6 | 1974.4 | 1978.0 |
| 17.5° | 1963.6 | 1960.0 | 1943.9 | 1949.3 | 1961.8 |
| 20°   | 1927.7 | 1915.1 | 1911.6 | 1913.4 | 1916.9 |
| 22.5° | 1886.4 | 1877.5 | 1868.5 | 1872.1 | 1875.7 |
| 25°   | 1827.2 | 1827.2 | 1834.4 | 1829.0 | 1841.6 |
| 27.5° | 1789.5 | 1785.9 | 1780.5 | 1780.5 | 1794.9 |
| 30°   | 1728.5 | 1728.5 | 1728.5 | 1733.9 | 1742.8 |
| 32.5° | 1685.4 | 1678.2 | 1674.6 | 1676.4 | 1680.0 |
| 35°   | 1619.0 | 1613.6 | 1617.2 | 1619.0 | 1620.8 |
| 37.5° | 1552.6 | 1550.8 | 1559.8 | 1554.4 | 1561.6 |
| 40°   | 1488.0 | 1484.4 | 1489.8 | 1486.2 | 1491.6 |
| 42.5° | 1419.8 | 1412.6 | 1418.0 | 1421.6 | 1423.3 |
| 45°   | 1346.2 | 1342.6 | 1351.6 | 1353.3 | 1351.6 |
| 47.5° | 1272.6 | 1267.2 | 1272.6 | 1278.0 | 1278.0 |
| 50°   | 1195.4 | 1188.2 | 1188.2 | 1193.6 | 1197.2 |
| 52.5° | 1111.0 | 1103.9 | 1107.4 | 1112.8 | 1114.6 |
| 55°   | 1024.9 | 1024.9 | 1026.7 | 1021.3 | 1035.7 |
| 57.5° | 935.1  | 928.0  | 935.1  | 931.5  | 938.7  |
| 60°   | 849.0  | 843.6  | 845.4  | 838.2  | 856.2  |
| 62.5° | 753.9  | 748.5  | 746.7  | 744.9  | 761.0  |
| 65°   | 658.7  | 649.8  | 651.5  | 648.0  | 662.3  |
| 67.5° | 567.2  | 558.2  | 554.6  | 554.6  | 565.4  |
| 70°   | 473.9  | 459.5  | 459.5  | 455.9  | 472.1  |
| 72.5° | 380.5  | 369.7  | 364.4  | 368.0  | 380.5  |
| 75°   | 290.8  | 281.8  | 278.2  | 281.8  | 289.0  |
| 77.5° | 206.4  | 202.8  | 197.4  | 201.0  | 208.2  |
| 80°   | 134.6  | 131.0  | 125.6  | 131.0  | 134.6  |
| 82.5° | 73.6   | 71.8   | 68.2   | 71.8   | 71.8   |
| 85°   | 30.5   | 30.5   | 26.9   | 28.7   | 28.7   |
| 87.5° | 9.0    | 7.2    | 7.2    | 5.4    | 5.4    |
| 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 | 15.69            | 17.30 | 16.06 | 17.61 | 17.93 | 15.71          | 17.32 | 16.08 | 17.63 | 17.95 |
|                 | 3H   | 17.23            | 18.67 | 17.61 | 19.00 | 19.36 | 17.23          | 18.68 | 17.61 | 19.00 | 19.36 |
|                 | 4H   | 17.69            | 19.05 | 18.09 | 19.40 | 19.77 | 17.69          | 19.05 | 18.09 | 19.39 | 19.77 |
|                 | 6H   | 17.92            | 19.18 | 18.33 | 19.55 | 19.94 | 17.92          | 19.18 | 18.33 | 19.54 | 19.94 |
|                 | 8H   | 17.96            | 19.15 | 18.38 | 19.54 | 19.94 | 17.95          | 19.15 | 18.38 | 19.54 | 19.94 |
|                 | 12H  | 17.95            | 19.10 | 18.38 | 19.48 | 19.91 | 17.95          | 19.10 | 18.38 | 19.48 | 19.91 |
| 4H              | 2H   | 16.25            | 17.61 | 16.65 | 17.96 | 18.34 | 16.27          | 17.63 | 16.67 | 17.98 | 18.36 |
|                 | 3H   | 17.97            | 19.10 | 18.38 | 19.49 | 19.90 | 17.96          | 19.09 | 18.37 | 19.49 | 19.89 |
|                 | 4H   | 18.52            | 19.53 | 18.95 | 19.95 | 20.39 | 18.51          | 19.53 | 18.94 | 19.94 | 20.38 |
|                 | 6H   | 18.83            | 19.71 | 19.28 | 20.16 | 20.61 | 18.82          | 19.71 | 19.28 | 20.15 | 20.61 |
|                 | 8H   | 18.88            | 19.70 | 19.34 | 20.15 | 20.61 | 18.87          | 19.70 | 19.33 | 20.14 | 20.61 |
|                 | 12H  | 18.89            | 19.63 | 19.37 | 20.10 | 20.57 | 18.88          | 19.62 | 19.36 | 20.10 | 20.57 |
| 8H              | 4H   | 18.70            | 19.52 | 19.16 | 19.97 | 20.43 | 18.69          | 19.52 | 19.15 | 19.96 | 20.43 |
|                 | 6H   | 19.06            | 19.74 | 19.56 | 20.23 | 20.71 | 19.06          | 19.74 | 19.55 | 20.23 | 20.71 |
|                 | 8H   | 19.13            | 19.74 | 19.64 | 20.25 | 20.74 | 19.13          | 19.74 | 19.64 | 20.25 | 20.73 |
|                 | 12H  | 19.16            | 19.70 | 19.67 | 20.19 | 20.76 | 19.15          | 19.69 | 19.66 | 20.18 | 20.75 |
| 12H             | 4H   | 18.70            | 19.44 | 19.18 | 19.91 | 20.38 | 18.69          | 19.43 | 19.17 | 19.91 | 20.38 |
|                 | 6H   | 19.06            | 19.67 | 19.57 | 20.18 | 20.66 | 19.05          | 19.66 | 19.56 | 20.17 | 20.66 |
|                 | 8H   | 19.16            | 19.70 | 19.67 | 20.19 | 20.75 | 19.15          | 19.69 | 19.66 | 20.18 | 20.75 |