

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: P973480

Luminaire Tested: FLR2-14-30-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-30-L950-CP125
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

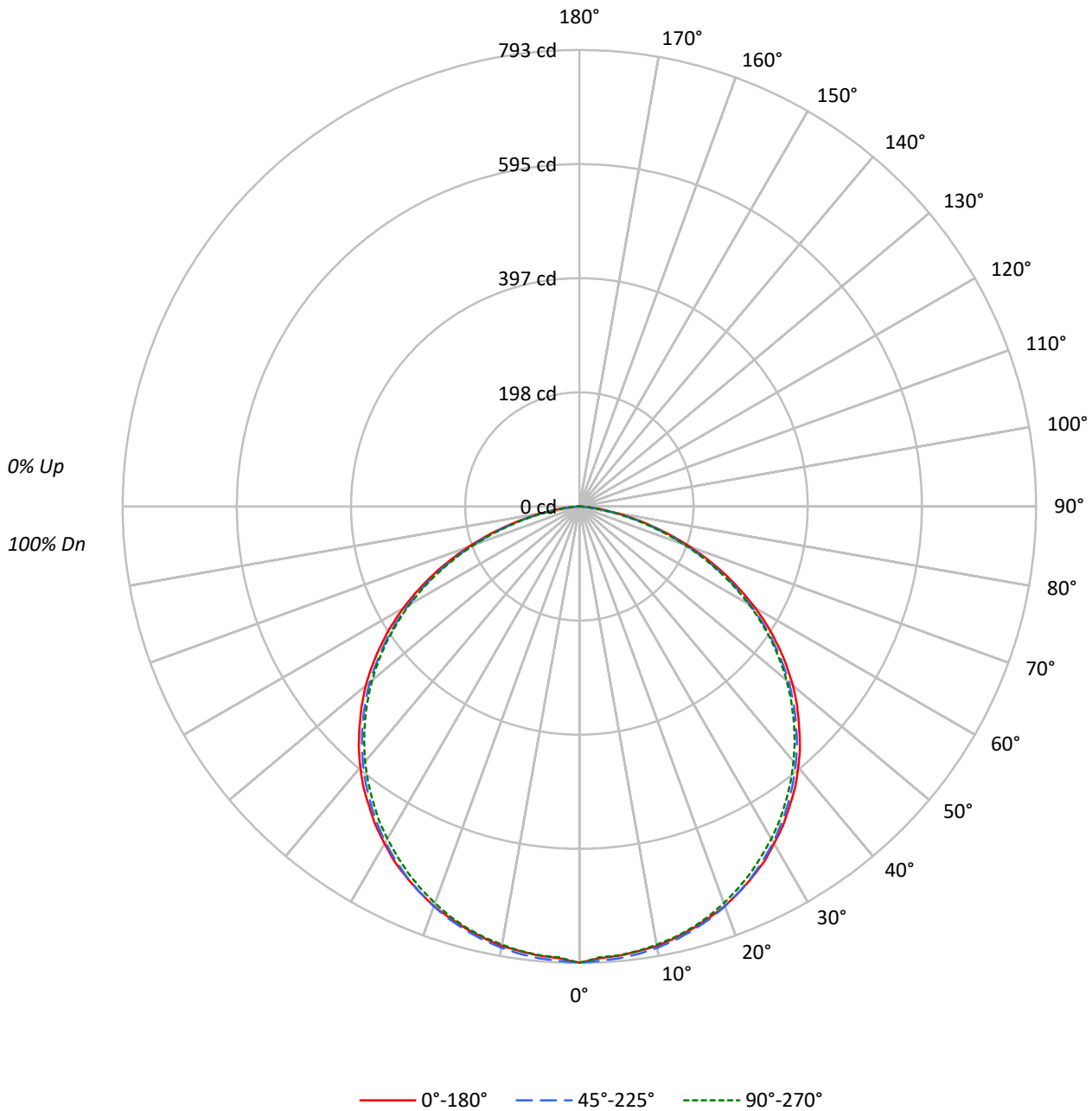
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P973480
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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 | 30 | 10 | |
| 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 | 89 | 91 | 89 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2133 | 2133 | 2133 |
| 5° | 2116 | 2129 | 2114 |
| 10° | 2119 | 2128 | 2112 |
| 15° | 2115 | 2123 | 2111 |
| 20° | 2115 | 2117 | 2100 |
| 25° | 2110 | 2106 | 2087 |
| 30° | 2101 | 2092 | 2072 |
| 35° | 2090 | 2074 | 2054 |
| 40° | 2078 | 2053 | 2032 |
| 45° | 2053 | 2024 | 2003 |
| 50° | 2026 | 1989 | 1966 |
| 55° | 1975 | 1929 | 1910 |
| 60° | 1898 | 1845 | 1829 |
| 65° | 1778 | 1726 | 1707 |
| 70° | 1603 | 1539 | 1526 |
| 75° | 1344 | 1276 | 1262 |
| 80° | 976 | 910 | 885 |
| 85° | 516 | 457 | 417 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2053 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.1 | 3.4 |
| 10°-20° | 215.6 | 9.7 |
| 20°-30° | 327.6 | 14.8 |
| 30°-40° | 396.3 | 17.9 |
| 40°-50° | 411.9 | 18.6 |
| 50°-60° | 368.7 | 16.6 |
| 60°-70° | 268.9 | 12.1 |
| 70°-80° | 132.4 | 6.0 |
| 80°-90° | 22.1 | 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° | 618.3 | 27.9 |
| 0°-40° | 1014.6 | 45.7 |
| 0°-60° | 1795.2 | 80.9 |
| 0°-90° | 2218.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2218.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 793 | 793 | 793 | 793 | 793 | |
| 5° | 784 | 792 | 788 | 796 | 782 | 75 |
| 15° | 759 | 766 | 762 | 769 | 758 | 214 |
| 25° | 711 | 714 | 709 | 713 | 703 | 328 |
| 35° | 636 | 638 | 631 | 634 | 625 | 398 |
| 45° | 539 | 539 | 532 | 533 | 526 | 416 |
| 55° | 421 | 417 | 411 | 410 | 407 | 376 |
| 65° | 279 | 276 | 271 | 269 | 268 | 276 |
| 75° | 129 | 127 | 123 | 121 | 121 | 138 |
| 85° | 17 | 16 | 15 | 13 | 14 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P973480
 CATALOG NUMBER: FLR2-14-30-L950-CP125

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 792.7 | 792.7 | 792.7 | 792.7 | 792.7 |
| 2.5° | 785.8 | 794.7 | 790.4 | 798.3 | 784.2 |
| 5° | 783.5 | 792.1 | 788.1 | 795.7 | 782.5 |
| 7.5° | 779.6 | 788.4 | 784.2 | 791.4 | 778.9 |
| 10° | 775.3 | 783.2 | 778.6 | 785.8 | 773.0 |
| 12.5° | 767.8 | 775.7 | 771.4 | 778.0 | 766.1 |
| 15° | 759.2 | 766.1 | 762.2 | 768.8 | 757.6 |
| 17.5° | 749.4 | 756.0 | 751.7 | 757.6 | 746.5 |
| 20° | 738.6 | 743.8 | 739.2 | 744.2 | 733.3 |
| 22.5° | 725.1 | 730.0 | 725.1 | 728.4 | 718.9 |
| 25° | 710.7 | 714.3 | 709.4 | 712.7 | 702.8 |
| 27.5° | 695.3 | 697.2 | 692.3 | 694.9 | 684.8 |
| 30° | 676.2 | 678.5 | 673.3 | 676.6 | 666.7 |
| 32.5° | 657.9 | 659.2 | 653.3 | 655.9 | 647.0 |
| 35° | 636.2 | 637.5 | 631.3 | 633.9 | 625.1 |
| 37.5° | 615.5 | 615.2 | 608.6 | 610.3 | 602.7 |
| 40° | 591.6 | 591.3 | 584.4 | 585.7 | 578.5 |
| 42.5° | 567.0 | 565.7 | 559.1 | 559.8 | 553.2 |
| 45° | 539.4 | 538.8 | 531.9 | 532.9 | 526.3 |
| 47.5° | 512.8 | 510.9 | 504.0 | 504.3 | 498.7 |
| 50° | 484.0 | 481.0 | 475.1 | 474.4 | 469.5 |
| 52.5° | 453.1 | 449.8 | 443.3 | 442.6 | 439.0 |
| 55° | 421.0 | 417.4 | 411.1 | 410.1 | 407.2 |
| 57.5° | 387.8 | 383.2 | 378.3 | 376.3 | 374.0 |
| 60° | 352.7 | 348.5 | 342.9 | 340.9 | 339.9 |
| 62.5° | 316.3 | 312.0 | 307.8 | 305.8 | 304.5 |
| 65° | 279.2 | 275.9 | 271.0 | 269.1 | 268.1 |
| 67.5° | 241.5 | 238.5 | 233.9 | 231.6 | 231.3 |
| 70° | 203.8 | 200.8 | 195.6 | 194.2 | 193.9 |
| 72.5° | 166.0 | 163.4 | 158.5 | 157.2 | 157.2 |
| 75° | 129.3 | 127.0 | 122.7 | 121.4 | 121.4 |
| 77.5° | 94.5 | 92.5 | 89.2 | 87.6 | 87.6 |
| 80° | 63.0 | 61.7 | 58.7 | 57.4 | 57.1 |
| 82.5° | 36.4 | 35.8 | 33.1 | 31.8 | 32.5 |
| 85° | 16.7 | 16.1 | 14.8 | 13.1 | 13.5 |
| 87.5° | 4.3 | 3.9 | 3.0 | 2.3 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)