

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: P974122

Luminaire Tested: FLR2-24-30-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-30-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CP125
Ballast/Driver: -

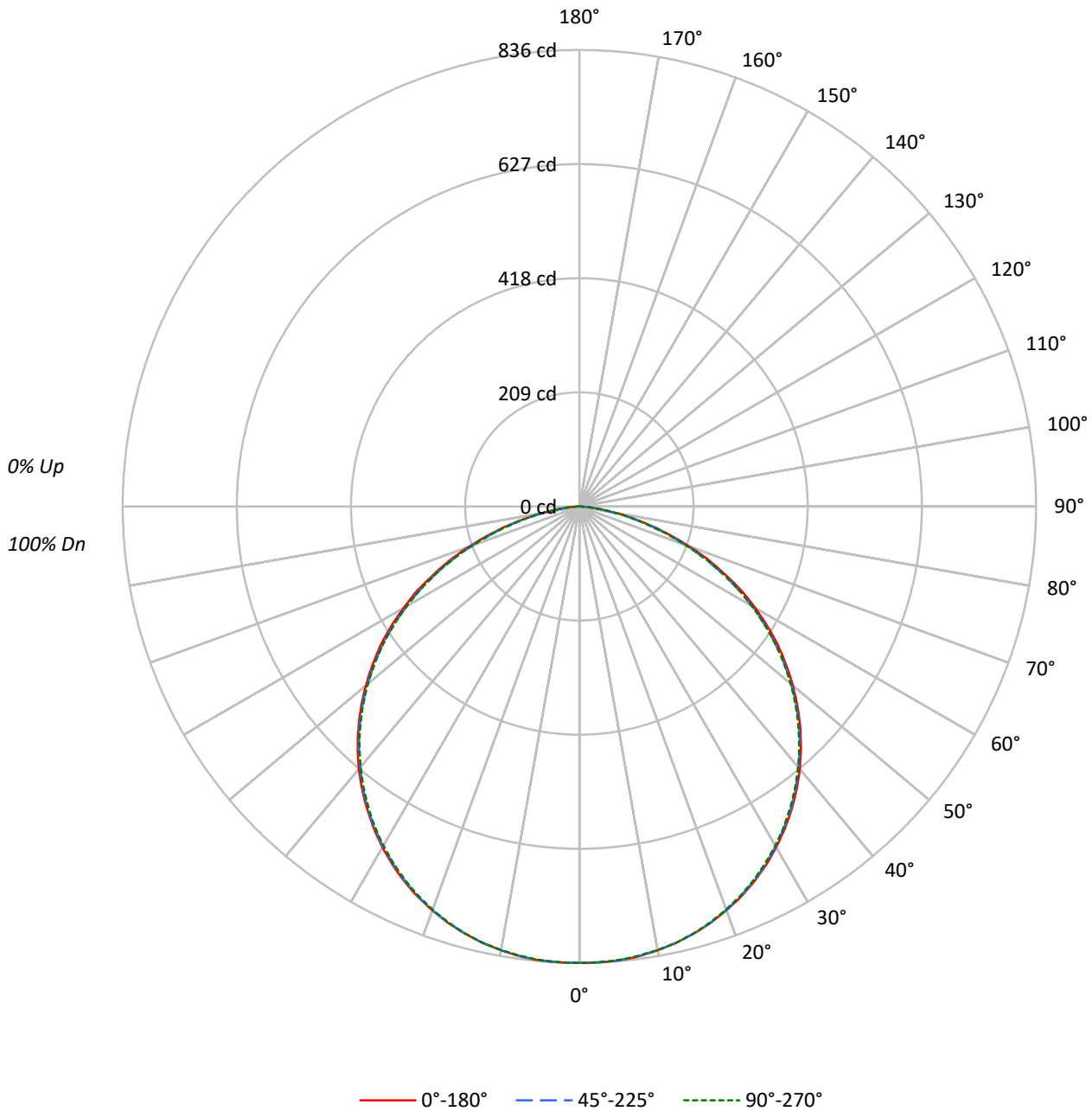
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.7 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.7
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





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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 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 89 | 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 | 57 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 38 |
| 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 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1125 | 1125 | 1125 |
| 5° | 1127 | 1127 | 1126 |
| 10° | 1128 | 1127 | 1127 |
| 15° | 1128 | 1128 | 1128 |
| 20° | 1127 | 1126 | 1125 |
| 25° | 1125 | 1123 | 1121 |
| 30° | 1120 | 1117 | 1114 |
| 35° | 1112 | 1110 | 1106 |
| 40° | 1103 | 1096 | 1094 |
| 45° | 1088 | 1082 | 1079 |
| 50° | 1068 | 1060 | 1057 |
| 55° | 1043 | 1028 | 1027 |
| 60° | 999 | 981 | 981 |
| 65° | 935 | 913 | 916 |
| 70° | 841 | 816 | 813 |
| 75° | 706 | 678 | 675 |
| 80° | 516 | 490 | 511 |
| 85° | 292 | 269 | 273 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1088 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.3 | 3.4 |
| 10°-20° | 228.6 | 9.7 |
| 20°-30° | 348.5 | 14.8 |
| 30°-40° | 422.3 | 17.9 |
| 40°-50° | 438.6 | 18.6 |
| 50°-60° | 392.4 | 16.6 |
| 60°-70° | 286.0 | 12.1 |
| 70°-80° | 141.6 | 6.0 |
| 80°-90° | 25.3 | 1.1 |
| 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° | 656.5 | 27.8 |
| 0°-40° | 1078.7 | 45.7 |
| 0°-60° | 1909.7 | 80.8 |
| 0°-90° | 2362.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2362.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 836 | 836 | 836 | 836 | 836 | |
| 5° | 834 | 835 | 834 | 834 | 834 | 79 |
| 15° | 810 | 810 | 810 | 810 | 810 | 229 |
| 25° | 758 | 757 | 756 | 756 | 755 | 349 |
| 35° | 677 | 676 | 676 | 674 | 673 | 424 |
| 45° | 572 | 571 | 569 | 568 | 567 | 441 |
| 55° | 444 | 441 | 438 | 438 | 438 | 396 |
| 65° | 294 | 291 | 287 | 288 | 288 | 291 |
| 75° | 136 | 134 | 130 | 133 | 130 | 145 |
| 85° | 19 | 17 | 17 | 18 | 18 | 26 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 835.9 | 835.9 | 835.9 | 835.9 | 835.9 |
| 2.5° | 835.9 | 835.6 | 835.6 | 835.9 | 835.3 |
| 5° | 834.4 | 834.7 | 834.4 | 834.4 | 833.8 |
| 7.5° | 831.1 | 830.8 | 830.5 | 830.8 | 829.9 |
| 10° | 825.4 | 825.4 | 825.1 | 825.4 | 824.8 |
| 12.5° | 818.5 | 818.5 | 818.5 | 818.8 | 818.5 |
| 15° | 809.8 | 809.5 | 809.5 | 810.1 | 809.5 |
| 17.5° | 799.6 | 799.3 | 799.3 | 799.0 | 798.4 |
| 20° | 787.0 | 787.0 | 786.7 | 786.4 | 785.5 |
| 22.5° | 773.6 | 773.3 | 772.4 | 772.4 | 771.2 |
| 25° | 757.7 | 756.8 | 756.2 | 755.9 | 755.0 |
| 27.5° | 740.3 | 739.1 | 738.2 | 737.6 | 736.7 |
| 30° | 720.8 | 719.6 | 718.7 | 717.8 | 717.2 |
| 32.5° | 699.8 | 699.2 | 697.7 | 697.4 | 696.2 |
| 35° | 677.3 | 676.4 | 675.5 | 674.3 | 673.1 |
| 37.5° | 653.3 | 652.4 | 650.3 | 649.7 | 648.8 |
| 40° | 627.8 | 626.6 | 623.9 | 623.9 | 623.0 |
| 42.5° | 600.5 | 599.3 | 597.5 | 596.3 | 595.7 |
| 45° | 572.0 | 570.8 | 568.7 | 567.5 | 566.9 |
| 47.5° | 541.7 | 540.8 | 538.4 | 537.5 | 536.6 |
| 50° | 510.2 | 509.0 | 506.3 | 505.7 | 504.8 |
| 52.5° | 477.2 | 476.6 | 473.0 | 472.7 | 471.8 |
| 55° | 444.5 | 441.2 | 438.2 | 438.2 | 437.6 |
| 57.5° | 408.5 | 406.1 | 402.2 | 402.2 | 401.6 |
| 60° | 371.3 | 369.2 | 364.7 | 365.3 | 364.7 |
| 62.5° | 335.0 | 330.5 | 326.3 | 328.1 | 326.6 |
| 65° | 293.6 | 291.2 | 286.7 | 287.9 | 287.6 |
| 67.5° | 255.9 | 251.4 | 247.2 | 249.6 | 248.4 |
| 70° | 213.9 | 211.5 | 207.3 | 209.7 | 206.7 |
| 72.5° | 174.3 | 172.2 | 168.0 | 170.7 | 167.7 |
| 75° | 135.9 | 133.8 | 130.5 | 132.9 | 129.9 |
| 77.5° | 99.6 | 98.1 | 95.1 | 97.5 | 98.1 |
| 80° | 66.6 | 64.8 | 63.3 | 65.4 | 66.0 |
| 82.5° | 39.0 | 37.8 | 37.2 | 37.5 | 39.0 |
| 85° | 18.9 | 17.4 | 17.4 | 17.7 | 17.7 |
| 87.5° | 5.1 | 4.5 | 5.1 | 5.4 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)