

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: P973559

Luminaire Tested: FLR2-22-35-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

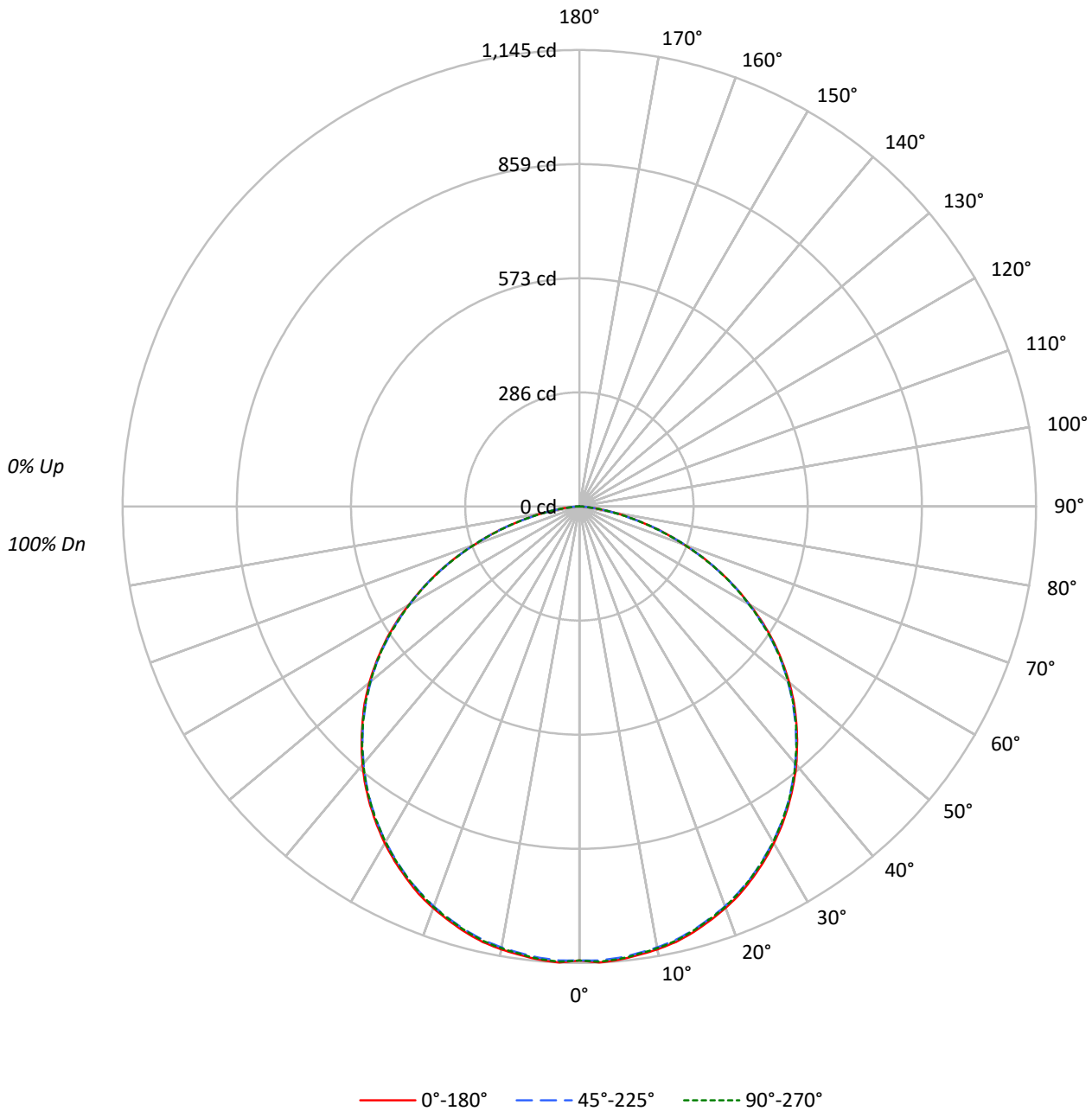
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.3 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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: P973559
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 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 | | | 100 | | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | 85 | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 | | | 71 | | | | | | | | | | | | | | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | 60 | | | 60 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | 39 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | 25 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3064 | 3064 | 3064 |
| 5° | 3083 | 3070 | 3080 |
| 10° | 3083 | 3069 | 3075 |
| 15° | 3080 | 3066 | 3070 |
| 20° | 3070 | 3057 | 3061 |
| 25° | 3053 | 3040 | 3043 |
| 30° | 3031 | 3018 | 3020 |
| 35° | 3004 | 2992 | 2994 |
| 40° | 2972 | 2957 | 2960 |
| 45° | 2928 | 2915 | 2920 |
| 50° | 2876 | 2856 | 2862 |
| 55° | 2795 | 2772 | 2782 |
| 60° | 2657 | 2646 | 2646 |
| 65° | 2481 | 2476 | 2467 |
| 70° | 2197 | 2208 | 2202 |
| 75° | 1850 | 1835 | 1821 |
| 80° | 1330 | 1308 | 1297 |
| 85° | 695 | 695 | 673 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2928 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.8 | 3.4 |
| 10°-20° | 310.1 | 9.7 |
| 20°-30° | 471.2 | 14.8 |
| 30°-40° | 569.5 | 17.9 |
| 40°-50° | 591.2 | 18.6 |
| 50°-60° | 528.5 | 16.6 |
| 60°-70° | 384.3 | 12.1 |
| 70°-80° | 189.0 | 5.9 |
| 80°-90° | 32.8 | 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° | 889.1 | 27.9 |
| 0°-40° | 1458.6 | 45.8 |
| 0°-60° | 2578.3 | 81.0 |
| 0°-90° | 3184.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3184.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1139 | 1139 | 1139 | 1139 | 1139 | |
| 5° | 1142 | 1128 | 1137 | 1132 | 1140 | 108 |
| 15° | 1106 | 1093 | 1101 | 1098 | 1102 | 312 |
| 25° | 1028 | 1017 | 1024 | 1022 | 1025 | 474 |
| 35° | 914 | 908 | 911 | 912 | 912 | 572 |
| 45° | 769 | 766 | 766 | 767 | 767 | 594 |
| 55° | 596 | 592 | 591 | 592 | 593 | 531 |
| 65° | 390 | 391 | 389 | 389 | 388 | 384 |
| 75° | 178 | 179 | 176 | 177 | 175 | 189 |
| 85° | 22 | 23 | 22 | 22 | 22 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P973559
 CATALOG NUMBER: FLR2-22-35-L835-CP125

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1138.7 | 1138.7 | 1138.7 | 1138.7 | 1138.7 |
| 2.5° | 1145.0 | 1131.6 | 1140.1 | 1135.1 | 1142.9 |
| 5° | 1141.5 | 1128.1 | 1136.6 | 1132.3 | 1140.1 |
| 7.5° | 1135.1 | 1121.8 | 1130.2 | 1126.0 | 1132.3 |
| 10° | 1128.1 | 1114.0 | 1123.2 | 1119.0 | 1125.3 |
| 12.5° | 1119.0 | 1105.6 | 1114.0 | 1110.5 | 1116.2 |
| 15° | 1105.6 | 1092.9 | 1100.7 | 1097.9 | 1102.1 |
| 17.5° | 1089.4 | 1076.8 | 1084.5 | 1082.4 | 1085.9 |
| 20° | 1071.9 | 1059.9 | 1067.6 | 1065.5 | 1069.0 |
| 22.5° | 1052.2 | 1039.5 | 1046.5 | 1045.1 | 1047.9 |
| 25° | 1028.2 | 1017.0 | 1024.0 | 1021.9 | 1024.7 |
| 27.5° | 1002.9 | 992.4 | 998.0 | 998.0 | 999.4 |
| 30° | 975.5 | 965.6 | 971.3 | 971.3 | 972.0 |
| 32.5° | 946.0 | 938.2 | 941.7 | 942.4 | 942.4 |
| 35° | 914.3 | 908.0 | 910.8 | 911.5 | 911.5 |
| 37.5° | 881.3 | 874.9 | 877.0 | 878.4 | 878.4 |
| 40° | 846.1 | 840.5 | 841.9 | 843.3 | 842.6 |
| 42.5° | 808.1 | 803.9 | 804.6 | 806.0 | 806.0 |
| 45° | 769.4 | 765.9 | 765.9 | 767.3 | 767.3 |
| 47.5° | 730.0 | 726.5 | 725.1 | 726.5 | 726.5 |
| 50° | 687.1 | 683.6 | 682.2 | 683.6 | 683.6 |
| 52.5° | 642.1 | 638.6 | 638.6 | 638.6 | 639.3 |
| 55° | 595.7 | 592.2 | 590.8 | 592.2 | 592.9 |
| 57.5° | 546.5 | 545.1 | 543.0 | 543.7 | 541.6 |
| 60° | 493.7 | 493.7 | 491.6 | 493.0 | 491.6 |
| 62.5° | 442.4 | 443.8 | 441.7 | 441.7 | 440.3 |
| 65° | 389.6 | 391.0 | 388.9 | 388.9 | 387.5 |
| 67.5° | 335.5 | 337.6 | 334.8 | 334.8 | 333.4 |
| 70° | 279.2 | 283.4 | 280.6 | 281.3 | 279.9 |
| 72.5° | 228.6 | 230.7 | 227.9 | 227.9 | 226.5 |
| 75° | 177.9 | 179.3 | 176.5 | 177.2 | 175.1 |
| 77.5° | 128.0 | 130.1 | 127.3 | 128.0 | 127.3 |
| 80° | 85.8 | 86.5 | 84.4 | 85.1 | 83.7 |
| 82.5° | 49.9 | 50.6 | 49.9 | 49.2 | 48.5 |
| 85° | 22.5 | 23.2 | 22.5 | 22.5 | 21.8 |
| 87.5° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)