

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: P973842

Luminaire Tested: FLR2-22-25HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973842
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: FLR2-22-25HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

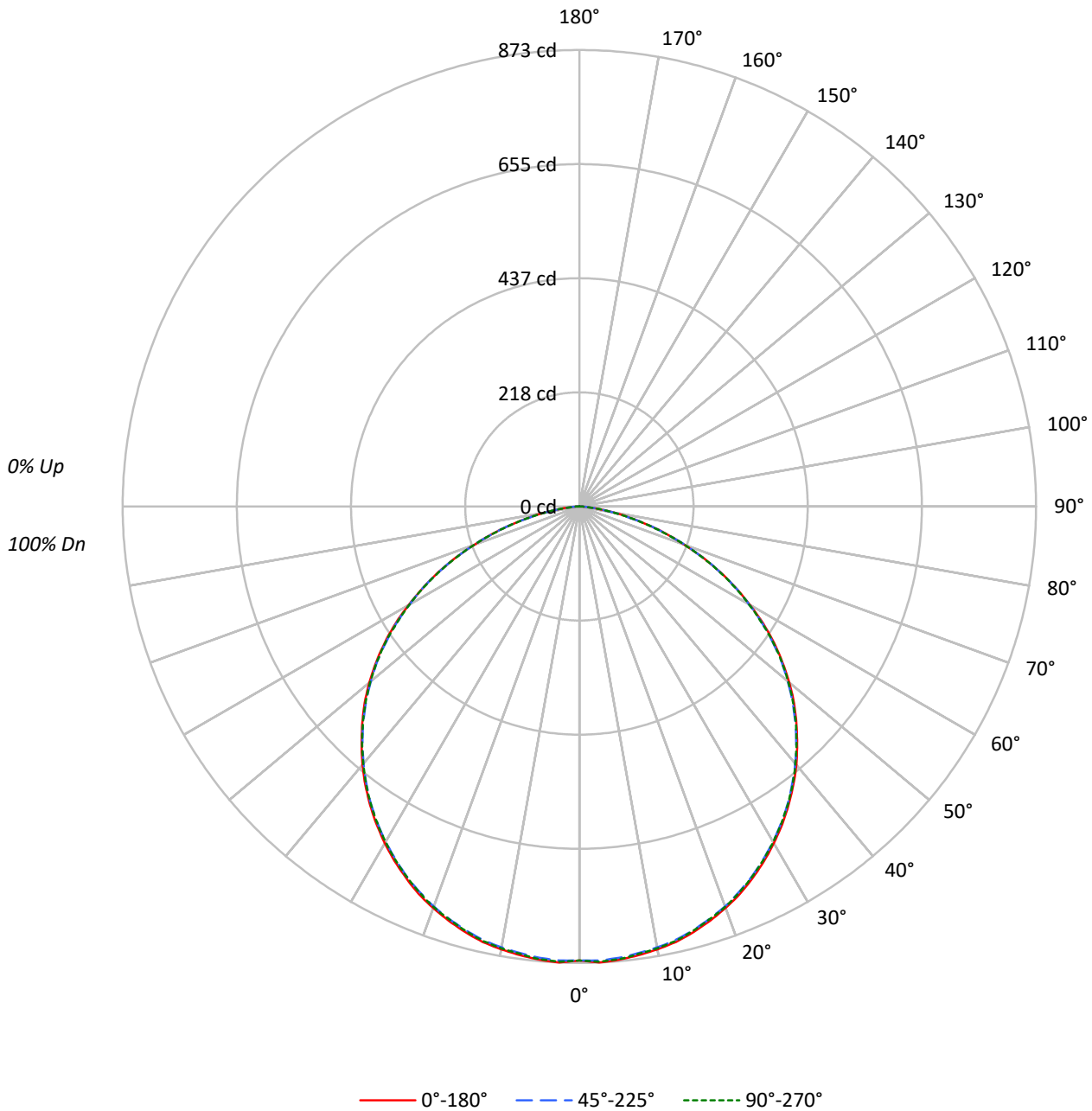
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.1 lumens
Efficiency: N/A
Efficacy: 126.5 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): 19.2
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: P973842
 CATALOG NUMBER: FLR2-22-25HE-L835-CA125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 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 | 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 | 63 | 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 | 71 | 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 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 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 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2336 | 2336 | 2336 |
| 5° | 2351 | 2341 | 2348 |
| 10° | 2350 | 2340 | 2345 |
| 15° | 2349 | 2338 | 2341 |
| 20° | 2340 | 2331 | 2334 |
| 25° | 2328 | 2318 | 2320 |
| 30° | 2311 | 2301 | 2303 |
| 35° | 2290 | 2281 | 2283 |
| 40° | 2266 | 2255 | 2257 |
| 45° | 2233 | 2222 | 2227 |
| 50° | 2194 | 2178 | 2182 |
| 55° | 2131 | 2114 | 2121 |
| 60° | 2026 | 2018 | 2018 |
| 65° | 1892 | 1889 | 1882 |
| 70° | 1675 | 1684 | 1679 |
| 75° | 1411 | 1399 | 1388 |
| 80° | 1013 | 998 | 989 |
| 85° | 531 | 531 | 513 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2233 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.2 | 3.4 |
| 10°-20° | 236.4 | 9.7 |
| 20°-30° | 359.3 | 14.8 |
| 30°-40° | 434.3 | 17.9 |
| 40°-50° | 450.8 | 18.6 |
| 50°-60° | 403.0 | 16.6 |
| 60°-70° | 293.0 | 12.1 |
| 70°-80° | 144.1 | 5.9 |
| 80°-90° | 25.0 | 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° | 678.0 | 27.9 |
| 0°-40° | 1112.2 | 45.8 |
| 0°-60° | 1966.0 | 81.0 |
| 0°-90° | 2428.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2428.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 868 | 868 | 868 | 868 | 868 | |
| 5° | 870 | 860 | 867 | 863 | 869 | 83 |
| 15° | 843 | 833 | 839 | 837 | 840 | 238 |
| 25° | 784 | 776 | 781 | 779 | 781 | 361 |
| 35° | 697 | 692 | 694 | 695 | 695 | 436 |
| 45° | 587 | 584 | 584 | 585 | 585 | 453 |
| 55° | 454 | 452 | 450 | 452 | 452 | 405 |
| 65° | 297 | 298 | 297 | 297 | 296 | 293 |
| 75° | 136 | 137 | 135 | 135 | 134 | 144 |
| 85° | 17 | 18 | 17 | 17 | 17 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P973842
 CATALOG NUMBER: FLR2-22-25HE-L835-CA125

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 868.2 | 868.2 | 868.2 | 868.2 | 868.2 |
| 2.5° | 873.1 | 862.9 | 869.3 | 865.6 | 871.5 |
| 5° | 870.4 | 860.2 | 866.6 | 863.4 | 869.3 |
| 7.5° | 865.6 | 855.4 | 861.8 | 858.6 | 863.4 |
| 10° | 860.2 | 849.5 | 856.4 | 853.2 | 858.1 |
| 12.5° | 853.2 | 843.0 | 849.5 | 846.8 | 851.1 |
| 15° | 843.0 | 833.4 | 839.3 | 837.1 | 840.4 |
| 17.5° | 830.7 | 821.1 | 827.0 | 825.3 | 828.0 |
| 20° | 817.3 | 808.2 | 814.1 | 812.5 | 815.2 |
| 22.5° | 802.3 | 792.6 | 798.0 | 796.9 | 799.1 |
| 25° | 784.1 | 775.5 | 780.8 | 779.2 | 781.4 |
| 27.5° | 764.7 | 756.7 | 761.0 | 761.0 | 762.1 |
| 30° | 743.8 | 736.3 | 740.6 | 740.6 | 741.1 |
| 32.5° | 721.3 | 715.4 | 718.1 | 718.6 | 718.6 |
| 35° | 697.2 | 692.3 | 694.5 | 695.0 | 695.0 |
| 37.5° | 672.0 | 667.1 | 668.7 | 669.8 | 669.8 |
| 40° | 645.2 | 640.9 | 641.9 | 643.0 | 642.5 |
| 42.5° | 616.2 | 613.0 | 613.5 | 614.6 | 614.6 |
| 45° | 586.7 | 584.0 | 584.0 | 585.1 | 585.1 |
| 47.5° | 556.7 | 554.0 | 552.9 | 554.0 | 554.0 |
| 50° | 524.0 | 521.3 | 520.2 | 521.3 | 521.3 |
| 52.5° | 489.6 | 486.9 | 486.9 | 486.9 | 487.5 |
| 55° | 454.2 | 451.6 | 450.5 | 451.6 | 452.1 |
| 57.5° | 416.7 | 415.6 | 414.0 | 414.5 | 412.9 |
| 60° | 376.5 | 376.5 | 374.9 | 375.9 | 374.9 |
| 62.5° | 337.3 | 338.4 | 336.8 | 336.8 | 335.7 |
| 65° | 297.1 | 298.2 | 296.6 | 296.6 | 295.5 |
| 67.5° | 255.8 | 257.4 | 255.3 | 255.3 | 254.2 |
| 70° | 212.9 | 216.1 | 214.0 | 214.5 | 213.4 |
| 72.5° | 174.3 | 175.9 | 173.8 | 173.8 | 172.7 |
| 75° | 135.7 | 136.8 | 134.6 | 135.1 | 133.5 |
| 77.5° | 97.6 | 99.2 | 97.1 | 97.6 | 97.1 |
| 80° | 65.4 | 66.0 | 64.4 | 64.9 | 63.8 |
| 82.5° | 38.1 | 38.6 | 38.1 | 37.5 | 37.0 |
| 85° | 17.2 | 17.7 | 17.2 | 17.2 | 16.6 |
| 87.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)