

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: P973290

Luminaire Tested: FLR2-14-30HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973290
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: FLR2-14-30HE-L850-CA125
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

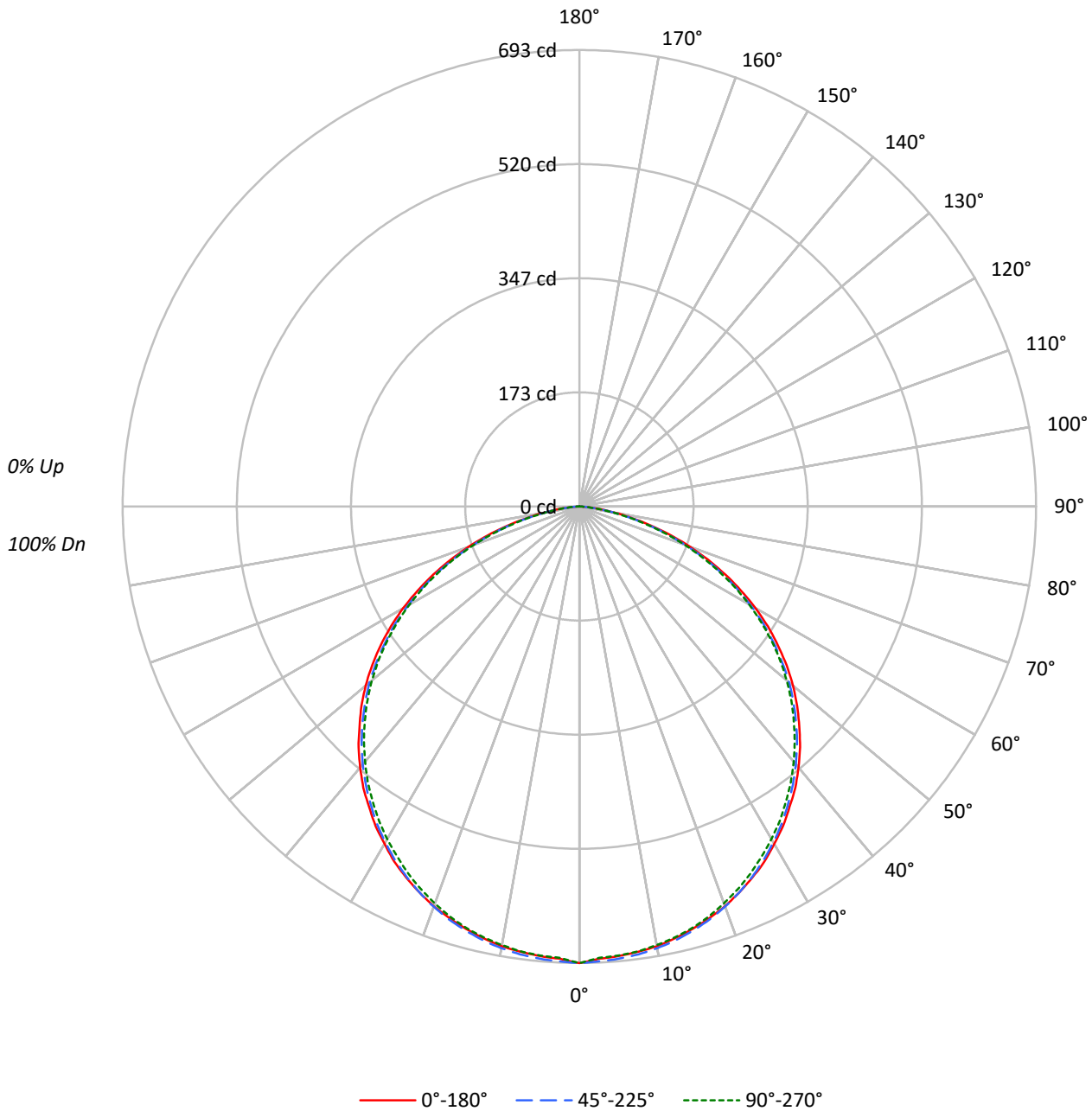
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.5 lumens
Efficiency: N/A
Efficacy: 86.6 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): 22.4
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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CATALOG NUMBER: FLR2-14-30HE-L850-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973290
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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 | | | | | | | | | | | | | | | | | | | |
| 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° | 1866 | 1866 | 1866 |
| 5° | 1851 | 1862 | 1849 |
| 10° | 1853 | 1861 | 1847 |
| 15° | 1850 | 1857 | 1846 |
| 20° | 1850 | 1852 | 1837 |
| 25° | 1846 | 1842 | 1825 |
| 30° | 1838 | 1830 | 1812 |
| 35° | 1828 | 1814 | 1796 |
| 40° | 1818 | 1795 | 1777 |
| 45° | 1795 | 1770 | 1752 |
| 50° | 1772 | 1739 | 1719 |
| 55° | 1727 | 1687 | 1671 |
| 60° | 1660 | 1614 | 1600 |
| 65° | 1555 | 1509 | 1493 |
| 70° | 1402 | 1345 | 1334 |
| 75° | 1176 | 1116 | 1104 |
| 80° | 854 | 797 | 773 |
| 85° | 451 | 398 | 364 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1795 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.7 | 3.4 |
| 10°-20° | 188.6 | 9.7 |
| 20°-30° | 286.5 | 14.8 |
| 30°-40° | 346.6 | 17.9 |
| 40°-50° | 360.2 | 18.6 |
| 50°-60° | 322.5 | 16.6 |
| 60°-70° | 235.2 | 12.1 |
| 70°-80° | 115.8 | 6.0 |
| 80°-90° | 19.4 | 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° | 540.8 | 27.9 |
| 0°-40° | 887.4 | 45.7 |
| 0°-60° | 1570.1 | 80.9 |
| 0°-90° | 1940.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1940.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 693 | 693 | 693 | 693 | 693 | |
| 5° | 685 | 693 | 689 | 696 | 684 | 65 |
| 15° | 664 | 670 | 667 | 672 | 663 | 188 |
| 25° | 622 | 625 | 620 | 623 | 615 | 287 |
| 35° | 556 | 558 | 552 | 554 | 547 | 348 |
| 45° | 472 | 471 | 465 | 466 | 460 | 364 |
| 55° | 368 | 365 | 360 | 359 | 356 | 329 |
| 65° | 244 | 241 | 237 | 235 | 234 | 241 |
| 75° | 113 | 111 | 107 | 106 | 106 | 121 |
| 85° | 15 | 14 | 13 | 12 | 12 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P973290
 CATALOG NUMBER: FLR2-14-30HE-L850-CA125

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 693.3 | 693.3 | 693.3 | 693.3 | 693.3 |
| 2.5° | 687.3 | 695.1 | 691.3 | 698.2 | 685.9 |
| 5° | 685.3 | 692.8 | 689.3 | 695.9 | 684.4 |
| 7.5° | 681.9 | 689.6 | 685.9 | 692.2 | 681.3 |
| 10° | 678.1 | 685.0 | 681.0 | 687.3 | 676.1 |
| 12.5° | 671.5 | 678.4 | 674.7 | 680.4 | 670.1 |
| 15° | 664.1 | 670.1 | 666.6 | 672.4 | 662.6 |
| 17.5° | 655.5 | 661.2 | 657.5 | 662.6 | 652.9 |
| 20° | 646.0 | 650.6 | 646.6 | 650.9 | 641.4 |
| 22.5° | 634.2 | 638.5 | 634.2 | 637.1 | 628.8 |
| 25° | 621.6 | 624.7 | 620.4 | 623.3 | 614.7 |
| 27.5° | 608.1 | 609.8 | 605.5 | 607.8 | 598.9 |
| 30° | 591.5 | 593.5 | 588.9 | 591.7 | 583.1 |
| 32.5° | 575.4 | 576.5 | 571.4 | 573.7 | 565.9 |
| 35° | 556.4 | 557.6 | 552.1 | 554.4 | 546.7 |
| 37.5° | 538.4 | 538.1 | 532.3 | 533.8 | 527.2 |
| 40° | 517.4 | 517.1 | 511.1 | 512.3 | 505.9 |
| 42.5° | 495.9 | 494.7 | 489.0 | 489.6 | 483.8 |
| 45° | 471.8 | 471.2 | 465.2 | 466.0 | 460.3 |
| 47.5° | 448.5 | 446.8 | 440.8 | 441.1 | 436.2 |
| 50° | 423.3 | 420.7 | 415.5 | 415.0 | 410.7 |
| 52.5° | 396.3 | 393.4 | 387.7 | 387.1 | 384.0 |
| 55° | 368.2 | 365.0 | 359.6 | 358.7 | 356.1 |
| 57.5° | 339.2 | 335.2 | 330.9 | 329.2 | 327.2 |
| 60° | 308.5 | 304.8 | 299.9 | 298.2 | 297.3 |
| 62.5° | 276.6 | 272.9 | 269.2 | 267.5 | 266.3 |
| 65° | 244.2 | 241.3 | 237.0 | 235.3 | 234.5 |
| 67.5° | 211.2 | 208.6 | 204.6 | 202.6 | 202.3 |
| 70° | 178.2 | 175.6 | 171.0 | 169.9 | 169.6 |
| 72.5° | 145.2 | 142.9 | 138.6 | 137.5 | 137.5 |
| 75° | 113.1 | 111.1 | 107.3 | 106.2 | 106.2 |
| 77.5° | 82.6 | 80.9 | 78.1 | 76.6 | 76.6 |
| 80° | 55.1 | 54.0 | 51.4 | 50.2 | 49.9 |
| 82.5° | 31.9 | 31.3 | 29.0 | 27.8 | 28.4 |
| 85° | 14.6 | 14.1 | 12.9 | 11.5 | 11.8 |
| 87.5° | 3.7 | 3.4 | 2.6 | 2.0 | 2.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)