

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P566137

Luminaire Tested: **4SNX-22SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-22SL-FDL-UNV-L850-CD  
Description: 4FT 2200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

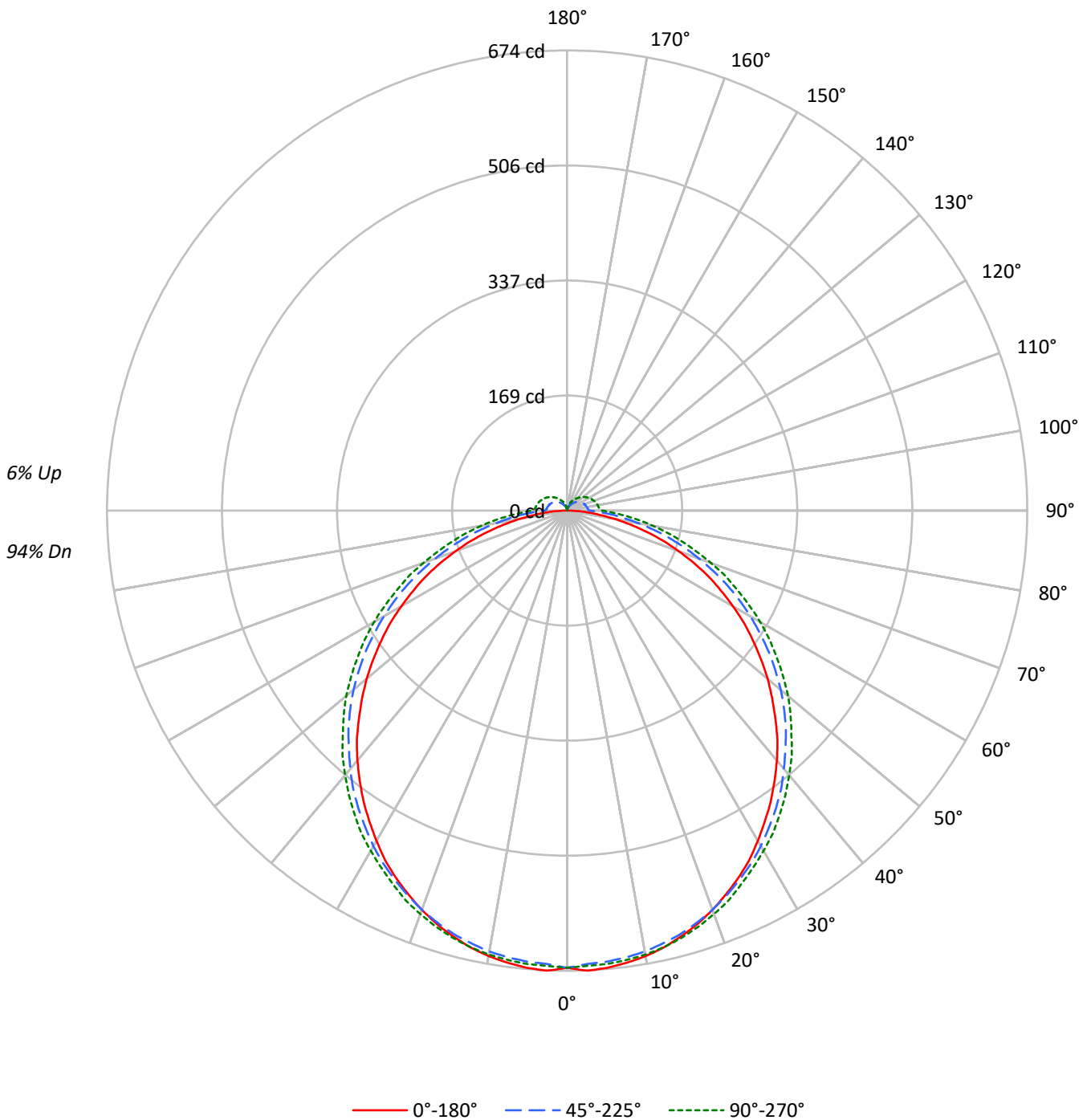
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2128.0 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 13.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |   |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |    |    |    |   |
| 1   | 107 | 102 | 97  | 93  | 103 | 99  | 95  | 91  | 93  | 90  | 87  | 88  | 86  | 83  | 84 | 82 | 80 | 77 |    |    |    |   |
| 2   | 97  | 88  | 81  | 75  | 93  | 86  | 79  | 74  | 81  | 76  | 71  | 77  | 73  | 69  | 73 | 69 | 66 | 64 |    |    |    |   |
| 3   | 88  | 77  | 69  | 62  | 85  | 75  | 67  | 61  | 71  | 65  | 59  | 68  | 62  | 57  | 64 | 60 | 56 | 53 |    |    |    |   |
| 4   | 80  | 68  | 59  | 52  | 78  | 66  | 58  | 52  | 63  | 56  | 50  | 60  | 54  | 49  | 57 | 52 | 48 | 45 |    |    |    |   |
| 5   | 74  | 61  | 52  | 45  | 71  | 59  | 51  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 51 | 46 | 41 | 39 |    |    |    |   |
| 6   | 68  | 55  | 46  | 39  | 66  | 53  | 45  | 39  | 51  | 43  | 38  | 49  | 42  | 37  | 47 | 41 | 36 | 34 |    |    |    |   |
| 7   | 63  | 49  | 41  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 43 | 37 | 32 | 30 |    |    |    |   |
| 8   | 59  | 45  | 36  | 31  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |    |    |    |   |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |    |    |    |   |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 24 | 22 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7208 | 7208 | 7208 |
| 5°  | 7258 | 7088 | 7099 |
| 10° | 7228 | 7012 | 7010 |
| 15° | 7173 | 6923 | 6910 |
| 20° | 7100 | 6816 | 6792 |
| 25° | 7015 | 6698 | 6653 |
| 30° | 6900 | 6578 | 6524 |
| 35° | 6783 | 6437 | 6390 |
| 40° | 6656 | 6281 | 6239 |
| 45° | 6495 | 6128 | 6062 |
| 50° | 6338 | 5952 | 5901 |
| 55° | 6146 | 5736 | 5678 |
| 60° | 5929 | 5486 | 5458 |
| 65° | 5698 | 5190 | 5154 |
| 70° | 5302 | 4819 | 4840 |
| 75° | 4828 | 4379 | 4464 |
| 80° | 4126 | 3799 | 4047 |
| 85° | 3245 | 3292 | 3558 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.5   | 3.0       |
| 10°-20°   | 182.2  | 8.6       |
| 20°-30°   | 276.2  | 13.0      |
| 30°-40°   | 333.4  | 15.7      |
| 40°-50°   | 348.1  | 16.4      |
| 50°-60°   | 319.8  | 15.0      |
| 60°-70°   | 252.9  | 11.9      |
| 70°-80°   | 160.1  | 7.5       |
| 80°-90°   | 68.8   | 3.2       |
| 90°-100°  | 30.3   | 1.4       |
| 100°-110° | 27.1   | 1.3       |
| 110°-120° | 22.9   | 1.1       |
| 120°-130° | 17.8   | 0.8       |
| 130°-140° | 12.4   | 0.6       |
| 140°-150° | 7.4    | 0.3       |
| 150°-160° | 3.6    | 0.2       |
| 160°-170° | 1.3    | 0.1       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 521.9  | 24.5      |
| 0°-40°    | 855.3  | 40.2      |
| 0°-60°    | 1523.3 | 71.6      |
| 0°-90°    | 2005.1 | 94.2      |
| 90°-120°  | 80.3   | 3.8       |
| 90°-150°  | 117.9  | 5.5       |
| 90°-180°  | 123.0  | 5.8       |
| 0°-180°   | 2128.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 670 | 670   | 670 | 670   | 670 |      |
| 5°   | 672 | 670   | 663 | 669   | 667 | 64   |
| 15°  | 646 | 646   | 642 | 649   | 648 | 182  |
| 25°  | 594 | 596   | 597 | 605   | 604 | 273  |
| 35°  | 520 | 526   | 533 | 541   | 543 | 325  |
| 45°  | 431 | 442   | 453 | 462   | 465 | 333  |
| 55°  | 332 | 346   | 360 | 372   | 375 | 297  |
| 65°  | 229 | 242   | 258 | 271   | 275 | 225  |
| 75°  | 121 | 135   | 154 | 168   | 174 | 128  |
| 85°  | 29  | 45    | 65  | 79    | 84  | 32   |
| 90°  | 2   | 16    | 33  | 46    | 51  | 2    |
| 95°  | 0   | 14    | 30  | 42    | 47  | 0    |
| 105° | 0   | 13    | 28  | 40    | 44  | 0    |
| 115° | 0   | 11    | 26  | 36    | 40  | 0    |
| 125° | 1   | 10    | 22  | 31    | 34  | 1    |
| 135° | 1   | 8     | 17  | 24    | 28  | 1    |
| 145° | 1   | 6     | 12  | 18    | 20  | 1    |
| 155° | 1   | 4     | 8   | 12    | 14  | 0    |
| 165° | 1   | 3     | 4   | 6     | 8   | 0    |
| 175° | 1   | 2     | 2   | 2     | 1   | 0    |
| 180° | 1   | 1     | 1   | 1     | 1   |      |



TEST NUMBER: P566137

CATALOG NUMBER: 4SNX-22SL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 |
| 2.5°   | 674.5 | 672.3 | 664.7 | 670.0 | 667.4 |
| 5°     | 672.3 | 670.4 | 663.2 | 668.9 | 666.6 |
| 7.5°   | 668.1 | 666.6 | 660.2 | 666.3 | 664.0 |
| 10°    | 662.5 | 661.4 | 655.7 | 661.7 | 660.2 |
| 12.5°  | 655.3 | 654.9 | 649.3 | 656.1 | 654.9 |
| 15°    | 645.5 | 645.5 | 642.1 | 648.9 | 647.8 |
| 17.5°  | 635.0 | 635.3 | 632.7 | 639.9 | 639.1 |
| 20°    | 622.2 | 624.0 | 622.2 | 629.7 | 628.9 |
| 22.5°  | 608.2 | 610.9 | 610.1 | 617.6 | 618.0 |
| 25°    | 593.5 | 596.2 | 596.9 | 604.8 | 603.7 |
| 27.5°  | 577.3 | 581.5 | 583.0 | 590.1 | 589.8 |
| 30°    | 558.5 | 564.1 | 567.5 | 573.5 | 575.4 |
| 32.5°  | 539.3 | 546.0 | 550.2 | 558.5 | 560.7 |
| 35°    | 520.0 | 526.1 | 532.8 | 541.1 | 543.0 |
| 37.5°  | 498.9 | 505.7 | 514.8 | 522.7 | 524.9 |
| 40°    | 477.8 | 485.4 | 494.0 | 502.7 | 506.1 |
| 42.5°  | 456.0 | 463.9 | 473.3 | 483.5 | 486.9 |
| 45°    | 431.1 | 441.7 | 453.0 | 461.6 | 464.6 |
| 47.5°  | 407.4 | 419.0 | 431.1 | 440.5 | 443.9 |
| 50°    | 383.2 | 395.7 | 408.5 | 417.2 | 422.4 |
| 52.5°  | 358.0 | 371.6 | 384.4 | 395.3 | 398.7 |
| 55°    | 332.4 | 345.9 | 360.3 | 371.9 | 374.6 |
| 57.5°  | 307.5 | 320.7 | 335.0 | 345.9 | 351.2 |
| 60°    | 280.4 | 294.7 | 310.1 | 321.1 | 326.7 |
| 62.5°  | 254.0 | 267.9 | 284.5 | 296.2 | 300.7 |
| 65°    | 228.7 | 241.6 | 258.5 | 270.6 | 274.7 |
| 67.5°  | 200.9 | 215.6 | 231.8 | 245.7 | 251.0 |
| 70°    | 173.3 | 187.3 | 205.8 | 218.9 | 224.2 |
| 72.5°  | 147.7 | 161.3 | 179.8 | 192.9 | 197.8 |
| 75°    | 120.6 | 134.9 | 154.5 | 167.7 | 174.1 |
| 77.5°  | 94.6  | 110.4 | 129.3 | 143.6 | 150.7 |
| 80°    | 70.5  | 84.4  | 104.8 | 120.6 | 127.0 |
| 82.5°  | 47.9  | 62.9  | 84.0  | 98.7  | 105.9 |
| 85°    | 29.4  | 45.2  | 64.8  | 78.8  | 83.7  |
| 87.5°  | 13.9  | 29.0  | 47.1  | 60.7  | 66.7  |
| 90°    | 1.9   | 16.2  | 33.2  | 46.4  | 51.3  |
| 92.5°  | 0.4   | 13.9  | 30.5  | 43.0  | 47.5  |
| 95°    | 0.4   | 13.9  | 30.1  | 42.2  | 46.7  |
| 97.5°  | 0.4   | 13.6  | 29.8  | 41.8  | 46.0  |
| 100°   | 0.4   | 13.2  | 29.4  | 41.1  | 45.6  |
| 102.5° | 0.4   | 13.2  | 28.6  | 40.3  | 44.5  |
| 105°   | 0.4   | 12.8  | 28.3  | 39.6  | 43.7  |
| 107.5° | 0.4   | 12.4  | 27.5  | 38.8  | 43.0  |
| 110°   | 0.4   | 11.7  | 27.1  | 37.7  | 41.8  |



TEST NUMBER: P566137

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.4 | 11.3  | 26.4 | 36.9  | 40.7 |
| 115°   | 0.4 | 10.9  | 25.6 | 35.8  | 39.6 |
| 117.5° | 0.4 | 10.6  | 24.5 | 34.7  | 38.4 |
| 120°   | 0.8 | 10.6  | 23.7 | 33.5  | 36.9 |
| 122.5° | 0.8 | 10.2  | 22.6 | 32.0  | 35.4 |
| 125°   | 0.8 | 9.8   | 21.5 | 30.9  | 34.3 |
| 127.5° | 0.8 | 9.4   | 20.3 | 29.4  | 32.4 |
| 130°   | 0.8 | 8.7   | 19.6 | 27.9  | 30.9 |
| 132.5° | 0.8 | 8.3   | 18.5 | 26.0  | 29.0 |
| 135°   | 0.8 | 7.5   | 17.3 | 24.5  | 27.5 |
| 137.5° | 0.8 | 7.2   | 16.2 | 23.0  | 25.6 |
| 140°   | 0.8 | 6.8   | 14.7 | 21.5  | 24.1 |
| 142.5° | 0.8 | 6.0   | 13.6 | 20.0  | 22.2 |
| 145°   | 0.8 | 5.7   | 12.1 | 18.5  | 20.3 |
| 147.5° | 0.8 | 4.9   | 10.9 | 17.0  | 18.8 |
| 150°   | 0.8 | 4.5   | 9.8  | 15.5  | 17.3 |
| 152.5° | 0.8 | 4.1   | 8.7  | 13.6  | 15.5 |
| 155°   | 0.8 | 3.8   | 7.9  | 11.7  | 13.9 |
| 157.5° | 0.8 | 3.4   | 6.8  | 10.2  | 12.4 |
| 160°   | 1.1 | 3.0   | 6.0  | 8.7   | 10.6 |
| 162.5° | 1.1 | 2.6   | 4.9  | 7.2   | 9.4  |
| 165°   | 1.1 | 2.6   | 4.1  | 5.7   | 7.9  |
| 167.5° | 1.1 | 2.3   | 3.4  | 4.5   | 6.4  |
| 170°   | 1.1 | 1.9   | 3.0  | 3.4   | 4.9  |
| 172.5° | 1.1 | 1.5   | 2.3  | 2.3   | 2.6  |
| 175°   | 1.1 | 1.5   | 1.9  | 1.9   | 1.1  |
| 177.5° | 1.1 | 1.1   | 1.1  | 1.1   | 0.8  |
| 180°   | 1.1 | 1.1   | 1.1  | 1.1   | 1.1  |

(END OF REPORT)