

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: P566269

Luminaire Tested: **4SNX-31SL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-SLW-UNV-L950-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

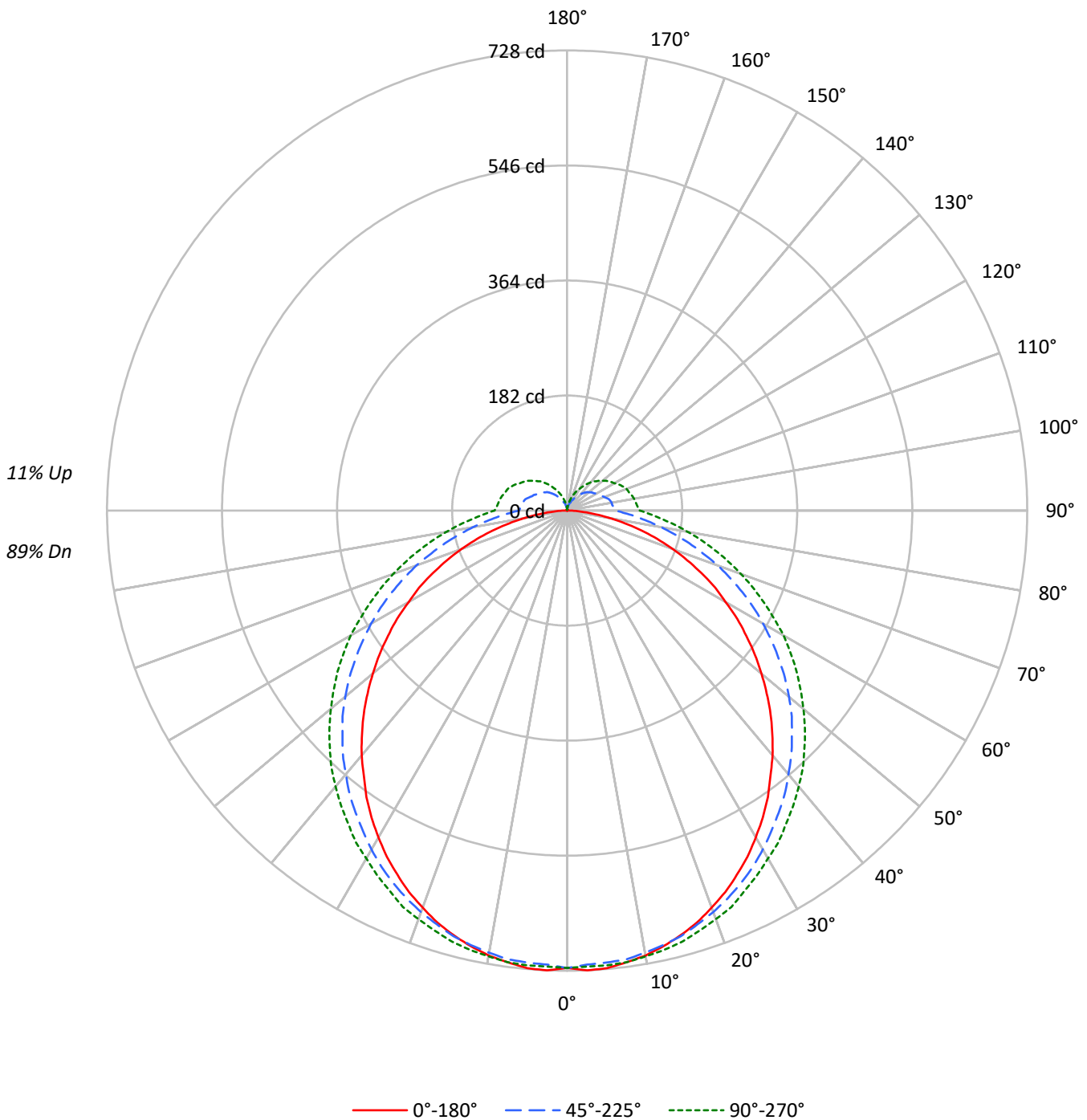
Lumens per Lamp: N/A
Luminaire Lumens: 2576.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (Ain): 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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CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566269

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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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 105 | 100 | 95 | 90 | 101 | 96 | 92 | 88 | 90 | 86 | 83 | 84 | 81 | 79 | 79 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 73 | 91 | 83 | 76 | 71 | 78 | 72 | 68 | 73 | 68 | 64 | 68 | 65 | 61 | 58 |
| 3 | 86 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 68 | 61 | 56 | 64 | 58 | 54 | 60 | 55 | 51 | 49 |
| 4 | 79 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 57 | 50 | 46 | 53 | 48 | 44 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 49 | 42 | 54 | 46 | 41 | 51 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 67 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7 | 62 | 48 | 39 | 33 | 59 | 47 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 39 | 34 | 29 | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 32 | 26 | 22 | 31 | 25 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7789 | 7789 | 7789 |
| 5° | 7837 | 7588 | 7582 |
| 10° | 7783 | 7435 | 7394 |
| 15° | 7705 | 7277 | 7222 |
| 20° | 7599 | 7098 | 7029 |
| 25° | 7476 | 6921 | 6828 |
| 30° | 7330 | 6727 | 6629 |
| 35° | 7169 | 6526 | 6442 |
| 40° | 6986 | 6328 | 6263 |
| 45° | 6787 | 6126 | 6070 |
| 50° | 6558 | 5912 | 5854 |
| 55° | 6308 | 5657 | 5641 |
| 60° | 6014 | 5383 | 5404 |
| 65° | 5711 | 5076 | 5106 |
| 70° | 5285 | 4736 | 4813 |
| 75° | 4721 | 4306 | 4489 |
| 80° | 3805 | 3869 | 4171 |
| 85° | 2685 | 3492 | 3843 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 2.7 |
| 10°-20° | 197.5 | 7.7 |
| 20°-30° | 300.4 | 11.7 |
| 30°-40° | 364.6 | 14.2 |
| 40°-50° | 385.3 | 15.0 |
| 50°-60° | 360.6 | 14.0 |
| 60°-70° | 295.8 | 11.5 |
| 70°-80° | 203.5 | 7.9 |
| 80°-90° | 111.4 | 4.3 |
| 90°-100° | 71.8 | 2.8 |
| 100°-110° | 64.4 | 2.5 |
| 110°-120° | 53.3 | 2.1 |
| 120°-130° | 41.0 | 1.6 |
| 130°-140° | 28.8 | 1.1 |
| 140°-150° | 17.4 | 0.7 |
| 150°-160° | 8.3 | 0.3 |
| 160°-170° | 2.7 | 0.1 |
| 170°-180° | 0.3 | 0.0 |
| 0°-30° | 566.7 | 22.0 |
| 0°-40° | 931.3 | 36.2 |
| 0°-60° | 1677.2 | 65.1 |
| 0°-90° | 2287.9 | 88.8 |
| 90°-120° | 189.4 | 7.4 |
| 90°-150° | 276.7 | 10.7 |
| 90°-180° | 288.0 | 11.2 |
| 0°-180° | 2576.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 724 | 724 | 724 | 724 | 724 | |
| 5° | 727 | 725 | 718 | 724 | 722 | 69 |
| 15° | 695 | 698 | 697 | 706 | 706 | 196 |
| 25° | 636 | 643 | 650 | 664 | 664 | 293 |
| 35° | 554 | 567 | 583 | 600 | 604 | 346 |
| 45° | 455 | 476 | 503 | 525 | 531 | 351 |
| 55° | 346 | 374 | 409 | 434 | 443 | 310 |
| 65° | 234 | 266 | 306 | 334 | 343 | 232 |
| 75° | 122 | 155 | 200 | 231 | 242 | 129 |
| 85° | 27 | 64 | 109 | 139 | 149 | 31 |
| 90° | 0 | 36 | 76 | 104 | 115 | 2 |
| 95° | 0 | 34 | 73 | 100 | 110 | 0 |
| 105° | 0 | 28 | 69 | 94 | 103 | 1 |
| 115° | 2 | 25 | 58 | 84 | 94 | 1 |
| 125° | 2 | 21 | 49 | 72 | 81 | 1 |
| 135° | 2 | 16 | 40 | 58 | 66 | 1 |
| 145° | 2 | 12 | 28 | 45 | 49 | 1 |
| 155° | 2 | 8 | 18 | 28 | 33 | 1 |
| 165° | 2 | 4 | 9 | 13 | 16 | 0 |
| 175° | 2 | 2 | 3 | 3 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566269

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 |
| 2.5° | 728.1 | 726.6 | 719.1 | 725.1 | 722.1 |
| 5° | 726.6 | 725.1 | 717.6 | 723.6 | 722.1 |
| 7.5° | 720.6 | 720.6 | 716.1 | 722.1 | 720.6 |
| 10° | 714.7 | 714.7 | 710.2 | 717.6 | 716.1 |
| 12.5° | 705.7 | 707.2 | 704.2 | 713.2 | 711.7 |
| 15° | 695.3 | 698.2 | 696.7 | 705.7 | 705.7 |
| 17.5° | 683.3 | 686.3 | 686.3 | 696.7 | 696.7 |
| 20° | 668.4 | 672.9 | 675.9 | 687.8 | 687.8 |
| 22.5° | 653.5 | 659.4 | 663.9 | 674.4 | 678.8 |
| 25° | 635.6 | 643.0 | 650.5 | 663.9 | 663.9 |
| 27.5° | 617.7 | 626.6 | 635.6 | 649.0 | 650.5 |
| 30° | 596.8 | 607.2 | 619.2 | 632.6 | 635.6 |
| 32.5° | 575.9 | 589.3 | 601.3 | 617.7 | 622.2 |
| 35° | 553.5 | 566.9 | 583.4 | 599.8 | 604.2 |
| 37.5° | 528.2 | 544.6 | 565.5 | 583.4 | 587.8 |
| 40° | 505.8 | 523.7 | 544.6 | 565.5 | 569.9 |
| 42.5° | 480.4 | 499.8 | 525.2 | 544.6 | 552.0 |
| 45° | 455.1 | 475.9 | 502.8 | 525.2 | 531.1 |
| 47.5° | 428.2 | 452.1 | 481.9 | 502.8 | 510.3 |
| 50° | 401.3 | 426.7 | 458.0 | 481.9 | 487.9 |
| 52.5° | 374.5 | 401.3 | 434.2 | 458.0 | 465.5 |
| 55° | 346.1 | 374.5 | 408.8 | 434.2 | 443.1 |
| 57.5° | 319.3 | 347.6 | 383.4 | 410.3 | 419.2 |
| 60° | 289.4 | 322.3 | 358.1 | 384.9 | 395.4 |
| 62.5° | 264.1 | 293.9 | 332.7 | 359.6 | 368.5 |
| 65° | 234.2 | 265.6 | 305.9 | 334.2 | 343.2 |
| 67.5° | 205.9 | 238.7 | 279.0 | 308.8 | 317.8 |
| 70° | 177.5 | 210.4 | 253.6 | 282.0 | 292.4 |
| 72.5° | 149.2 | 183.5 | 225.3 | 256.6 | 267.1 |
| 75° | 122.3 | 155.2 | 199.9 | 231.3 | 241.7 |
| 77.5° | 94.0 | 129.8 | 174.6 | 205.9 | 217.8 |
| 80° | 68.6 | 105.9 | 150.7 | 182.0 | 194.0 |
| 82.5° | 46.3 | 83.6 | 128.3 | 159.6 | 171.6 |
| 85° | 26.9 | 64.2 | 108.9 | 138.8 | 149.2 |
| 87.5° | 13.4 | 49.2 | 91.0 | 120.8 | 131.3 |
| 90° | 0.0 | 35.8 | 76.1 | 104.4 | 114.9 |
| 92.5° | 0.0 | 34.3 | 74.6 | 101.5 | 111.9 |
| 95° | 0.0 | 34.3 | 73.1 | 100.0 | 110.4 |
| 97.5° | 0.0 | 32.8 | 71.6 | 100.0 | 108.9 |
| 100° | 0.0 | 31.3 | 71.6 | 98.5 | 107.4 |
| 102.5° | 0.0 | 29.8 | 70.1 | 97.0 | 105.9 |
| 105° | 0.0 | 28.3 | 68.6 | 94.0 | 102.9 |
| 107.5° | 1.5 | 28.3 | 65.6 | 92.5 | 101.5 |
| 110° | 1.5 | 26.9 | 62.7 | 91.0 | 100.0 |



TEST NUMBER: P566269

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.5 | 25.4 | 59.7 | 88.0 | 97.0 |
| 115° | 1.5 | 25.4 | 58.2 | 83.6 | 94.0 |
| 117.5° | 1.5 | 23.9 | 55.2 | 80.6 | 91.0 |
| 120° | 1.5 | 23.9 | 53.7 | 77.6 | 86.5 |
| 122.5° | 1.5 | 22.4 | 50.7 | 74.6 | 83.6 |
| 125° | 1.5 | 20.9 | 49.2 | 71.6 | 80.6 |
| 127.5° | 1.5 | 19.4 | 47.7 | 68.6 | 77.6 |
| 130° | 1.5 | 17.9 | 44.8 | 65.6 | 73.1 |
| 132.5° | 1.5 | 17.9 | 43.3 | 61.2 | 70.1 |
| 135° | 1.5 | 16.4 | 40.3 | 58.2 | 65.6 |
| 137.5° | 1.5 | 14.9 | 37.3 | 55.2 | 62.7 |
| 140° | 1.5 | 13.4 | 34.3 | 52.2 | 58.2 |
| 142.5° | 1.5 | 13.4 | 31.3 | 47.7 | 53.7 |
| 145° | 1.5 | 11.9 | 28.3 | 44.8 | 49.2 |
| 147.5° | 1.5 | 10.4 | 25.4 | 40.3 | 44.8 |
| 150° | 1.5 | 10.4 | 22.4 | 35.8 | 40.3 |
| 152.5° | 1.5 | 9.0 | 19.4 | 32.8 | 37.3 |
| 155° | 1.5 | 7.5 | 17.9 | 28.3 | 32.8 |
| 157.5° | 1.5 | 7.5 | 14.9 | 23.9 | 28.3 |
| 160° | 1.5 | 6.0 | 13.4 | 19.4 | 23.9 |
| 162.5° | 1.5 | 6.0 | 11.9 | 16.4 | 20.9 |
| 165° | 1.5 | 4.5 | 9.0 | 13.4 | 16.4 |
| 167.5° | 1.5 | 4.5 | 7.5 | 10.4 | 13.4 |
| 170° | 1.5 | 3.0 | 6.0 | 7.5 | 10.4 |
| 172.5° | 1.5 | 3.0 | 4.5 | 4.5 | 4.5 |
| 175° | 1.5 | 1.5 | 3.0 | 3.0 | 1.5 |
| 177.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 180° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

(END OF REPORT)