

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: P566282

Luminaire Tested: **4SNX-33SL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566282
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-33SL-FDL-UNV-L930-CD
Description: 4FT 3300 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

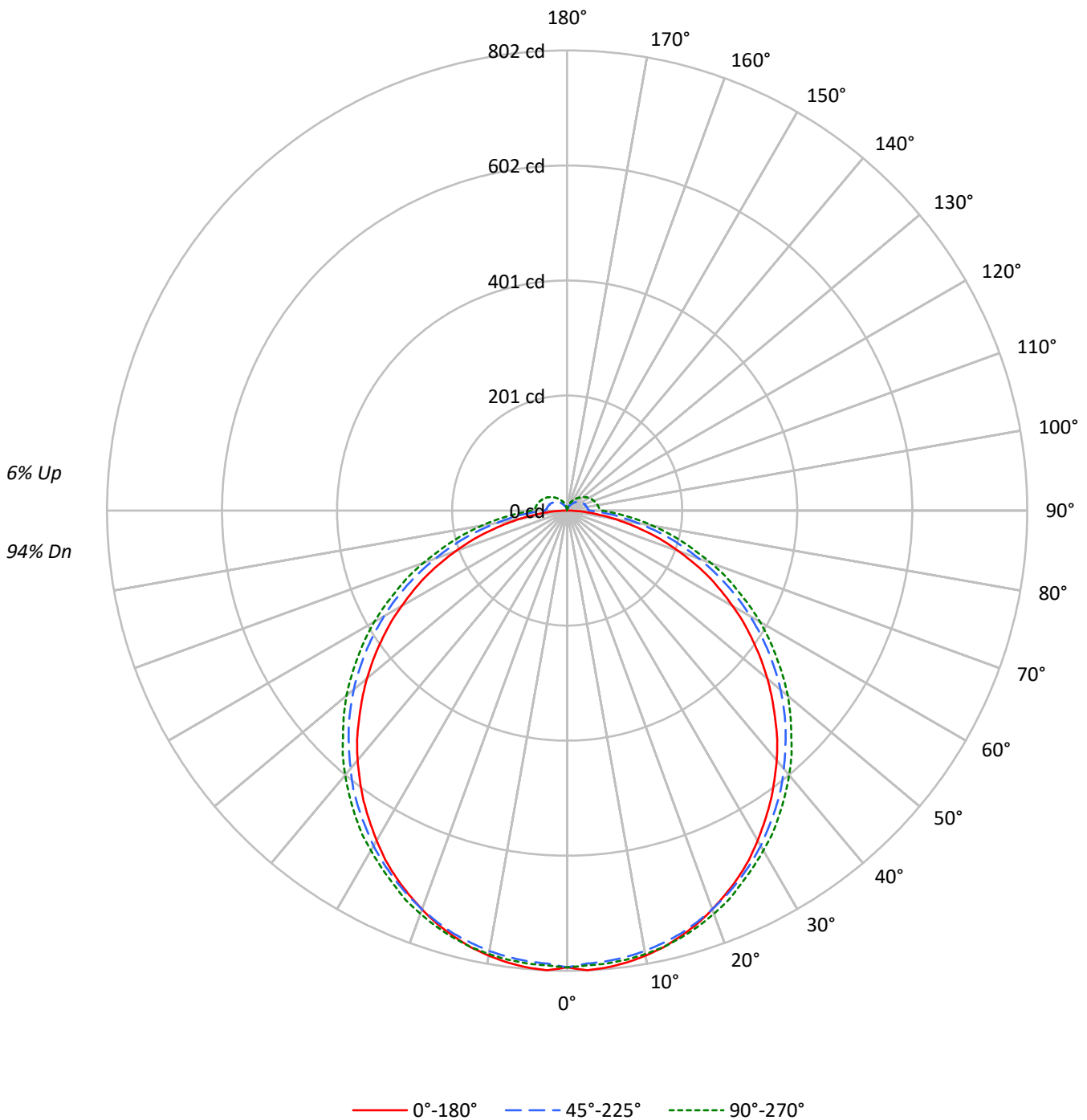
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2530.0 lumens
Efficiency: N/A
Efficacy: 119.9 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): 21.1
Input Voltage (V): NR
Input Current (A_{in}): 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





TEST NUMBER: P566282

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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 | 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° | 8569 | 8569 | 8569 |
| 5° | 8629 | 8427 | 8441 |
| 10° | 8593 | 8337 | 8334 |
| 15° | 8529 | 8231 | 8216 |
| 20° | 8441 | 8104 | 8076 |
| 25° | 8340 | 7964 | 7909 |
| 30° | 8204 | 7821 | 7756 |
| 35° | 8066 | 7653 | 7597 |
| 40° | 7913 | 7469 | 7417 |
| 45° | 7721 | 7285 | 7208 |
| 50° | 7536 | 7077 | 7016 |
| 55° | 7308 | 6818 | 6750 |
| 60° | 7048 | 6523 | 6488 |
| 65° | 6776 | 6170 | 6128 |
| 70° | 6306 | 5727 | 5755 |
| 75° | 5741 | 5207 | 5307 |
| 80° | 4905 | 4516 | 4812 |
| 85° | 3852 | 3917 | 4230 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.5 | 3.0 |
| 10°-20° | 216.7 | 8.6 |
| 20°-30° | 328.3 | 13.0 |
| 30°-40° | 396.4 | 15.7 |
| 40°-50° | 413.9 | 16.4 |
| 50°-60° | 380.3 | 15.0 |
| 60°-70° | 300.7 | 11.9 |
| 70°-80° | 190.3 | 7.5 |
| 80°-90° | 81.8 | 3.2 |
| 90°-100° | 36.0 | 1.4 |
| 100°-110° | 32.2 | 1.3 |
| 110°-120° | 27.2 | 1.1 |
| 120°-130° | 21.2 | 0.8 |
| 130°-140° | 14.7 | 0.6 |
| 140°-150° | 8.8 | 0.3 |
| 150°-160° | 4.3 | 0.2 |
| 160°-170° | 1.5 | 0.1 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 620.5 | 24.5 |
| 0°-40° | 1016.9 | 40.2 |
| 0°-60° | 1811.0 | 71.6 |
| 0°-90° | 2383.8 | 94.2 |
| 90°-120° | 95.4 | 3.8 |
| 90°-150° | 140.1 | 5.5 |
| 90°-180° | 146.0 | 5.8 |
| 0°-180° | 2530.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 796 | 796 | 796 | 796 | 796 | |
| 5° | 799 | 797 | 788 | 795 | 793 | 76 |
| 15° | 768 | 768 | 763 | 772 | 770 | 217 |
| 25° | 706 | 709 | 710 | 719 | 718 | 325 |
| 35° | 618 | 625 | 634 | 643 | 646 | 387 |
| 45° | 512 | 525 | 538 | 549 | 552 | 396 |
| 55° | 395 | 411 | 428 | 442 | 445 | 354 |
| 65° | 272 | 287 | 307 | 322 | 327 | 268 |
| 75° | 143 | 160 | 184 | 199 | 207 | 152 |
| 85° | 35 | 54 | 77 | 94 | 100 | 39 |
| 90° | 2 | 19 | 39 | 55 | 61 | 3 |
| 95° | 0 | 17 | 36 | 50 | 56 | 0 |
| 105° | 0 | 15 | 34 | 47 | 52 | 0 |
| 115° | 0 | 13 | 30 | 43 | 47 | 0 |
| 125° | 1 | 12 | 26 | 37 | 41 | 1 |
| 135° | 1 | 9 | 21 | 29 | 33 | 1 |
| 145° | 1 | 7 | 14 | 22 | 24 | 1 |
| 155° | 1 | 4 | 9 | 14 | 17 | 0 |
| 165° | 1 | 3 | 5 | 7 | 9 | 0 |
| 175° | 1 | 2 | 2 | 2 | 1 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P566282

CATALOG NUMBER: 4SNX-33SL-FDL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 796.1 | 796.1 | 796.1 | 796.1 | 796.1 |
| 2.5° | 802.0 | 799.3 | 790.3 | 796.6 | 793.5 |
| 5° | 799.3 | 797.0 | 788.5 | 795.2 | 792.6 |
| 7.5° | 794.4 | 792.6 | 784.9 | 792.1 | 789.4 |
| 10° | 787.6 | 786.3 | 779.6 | 786.7 | 784.9 |
| 12.5° | 779.1 | 778.7 | 771.9 | 780.0 | 778.7 |
| 15° | 767.5 | 767.5 | 763.4 | 771.5 | 770.2 |
| 17.5° | 754.9 | 755.4 | 752.2 | 760.7 | 759.9 |
| 20° | 739.7 | 741.9 | 739.7 | 748.7 | 747.8 |
| 22.5° | 723.1 | 726.3 | 725.4 | 734.3 | 734.8 |
| 25° | 705.6 | 708.8 | 709.7 | 719.1 | 717.7 |
| 27.5° | 686.4 | 691.3 | 693.1 | 701.6 | 701.2 |
| 30° | 664.0 | 670.7 | 674.7 | 681.9 | 684.1 |
| 32.5° | 641.1 | 649.2 | 654.1 | 664.0 | 666.7 |
| 35° | 618.3 | 625.4 | 633.5 | 643.4 | 645.6 |
| 37.5° | 593.2 | 601.3 | 612.0 | 621.4 | 624.1 |
| 40° | 568.1 | 577.1 | 587.4 | 597.7 | 601.7 |
| 42.5° | 542.1 | 551.5 | 562.7 | 574.8 | 578.9 |
| 45° | 512.5 | 525.1 | 538.5 | 548.8 | 552.4 |
| 47.5° | 484.3 | 498.2 | 512.5 | 523.7 | 527.8 |
| 50° | 455.6 | 470.4 | 485.7 | 496.0 | 502.2 |
| 52.5° | 425.6 | 441.8 | 457.0 | 470.0 | 474.0 |
| 55° | 395.2 | 411.3 | 428.3 | 442.2 | 445.3 |
| 57.5° | 365.6 | 381.3 | 398.3 | 411.3 | 417.6 |
| 60° | 333.3 | 350.4 | 368.7 | 381.7 | 388.4 |
| 62.5° | 302.0 | 318.5 | 338.3 | 352.1 | 357.5 |
| 65° | 272.0 | 287.2 | 307.3 | 321.7 | 326.6 |
| 67.5° | 238.8 | 256.3 | 275.5 | 292.1 | 298.4 |
| 70° | 206.1 | 222.7 | 244.6 | 260.3 | 266.6 |
| 72.5° | 175.6 | 191.8 | 213.7 | 229.4 | 235.2 |
| 75° | 143.4 | 160.4 | 183.7 | 199.4 | 207.0 |
| 77.5° | 112.5 | 131.3 | 153.7 | 170.7 | 179.2 |
| 80° | 83.8 | 100.4 | 124.6 | 143.4 | 151.0 |
| 82.5° | 56.9 | 74.8 | 99.9 | 117.4 | 125.9 |
| 85° | 34.9 | 53.8 | 77.1 | 93.6 | 99.5 |
| 87.5° | 16.6 | 34.5 | 56.0 | 72.1 | 79.3 |
| 90° | 2.2 | 19.3 | 39.4 | 55.1 | 60.9 |
| 92.5° | 0.4 | 16.6 | 36.3 | 51.1 | 56.5 |
| 95° | 0.4 | 16.6 | 35.8 | 50.2 | 55.6 |
| 97.5° | 0.4 | 16.1 | 35.4 | 49.7 | 54.7 |
| 100° | 0.4 | 15.7 | 34.9 | 48.8 | 54.2 |
| 102.5° | 0.4 | 15.7 | 34.1 | 47.9 | 52.9 |
| 105° | 0.4 | 15.2 | 33.6 | 47.0 | 52.0 |
| 107.5° | 0.4 | 14.8 | 32.7 | 46.1 | 51.1 |
| 110° | 0.4 | 13.9 | 32.3 | 44.8 | 49.7 |



TEST NUMBER: P566282

CATALOG NUMBER: 4SNX-33SL-FDL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.4 | 13.4 | 31.4 | 43.9 | 48.4 |
| 115° | 0.4 | 13.0 | 30.5 | 42.6 | 47.0 |
| 117.5° | 0.4 | 12.5 | 29.1 | 41.2 | 45.7 |
| 120° | 0.9 | 12.5 | 28.2 | 39.9 | 43.9 |
| 122.5° | 0.9 | 12.1 | 26.9 | 38.1 | 42.1 |
| 125° | 0.9 | 11.6 | 25.5 | 36.7 | 40.8 |
| 127.5° | 0.9 | 11.2 | 24.2 | 34.9 | 38.5 |
| 130° | 0.9 | 10.3 | 23.3 | 33.2 | 36.7 |
| 132.5° | 0.9 | 9.9 | 22.0 | 30.9 | 34.5 |
| 135° | 0.9 | 9.0 | 20.6 | 29.1 | 32.7 |
| 137.5° | 0.9 | 8.5 | 19.3 | 27.3 | 30.5 |
| 140° | 0.9 | 8.1 | 17.5 | 25.5 | 28.7 |
| 142.5° | 0.9 | 7.2 | 16.1 | 23.7 | 26.4 |
| 145° | 0.9 | 6.7 | 14.3 | 22.0 | 24.2 |
| 147.5° | 0.9 | 5.8 | 13.0 | 20.2 | 22.4 |
| 150° | 0.9 | 5.4 | 11.6 | 18.4 | 20.6 |
| 152.5° | 0.9 | 4.9 | 10.3 | 16.1 | 18.4 |
| 155° | 0.9 | 4.5 | 9.4 | 13.9 | 16.6 |
| 157.5° | 0.9 | 4.0 | 8.1 | 12.1 | 14.8 |
| 160° | 1.3 | 3.6 | 7.2 | 10.3 | 12.5 |
| 162.5° | 1.3 | 3.1 | 5.8 | 8.5 | 11.2 |
| 165° | 1.3 | 3.1 | 4.9 | 6.7 | 9.4 |
| 167.5° | 1.3 | 2.7 | 4.0 | 5.4 | 7.6 |
| 170° | 1.3 | 2.2 | 3.6 | 4.0 | 5.8 |
| 172.5° | 1.3 | 1.8 | 2.7 | 2.7 | 3.1 |
| 175° | 1.3 | 1.8 | 2.2 | 2.2 | 1.3 |
| 177.5° | 1.3 | 1.3 | 1.3 | 1.3 | 0.9 |
| 180° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |

(END OF REPORT)