

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: P566356

Luminaire Tested: **4SNX-37SL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566356
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-37SL-LW-UNV-L940-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

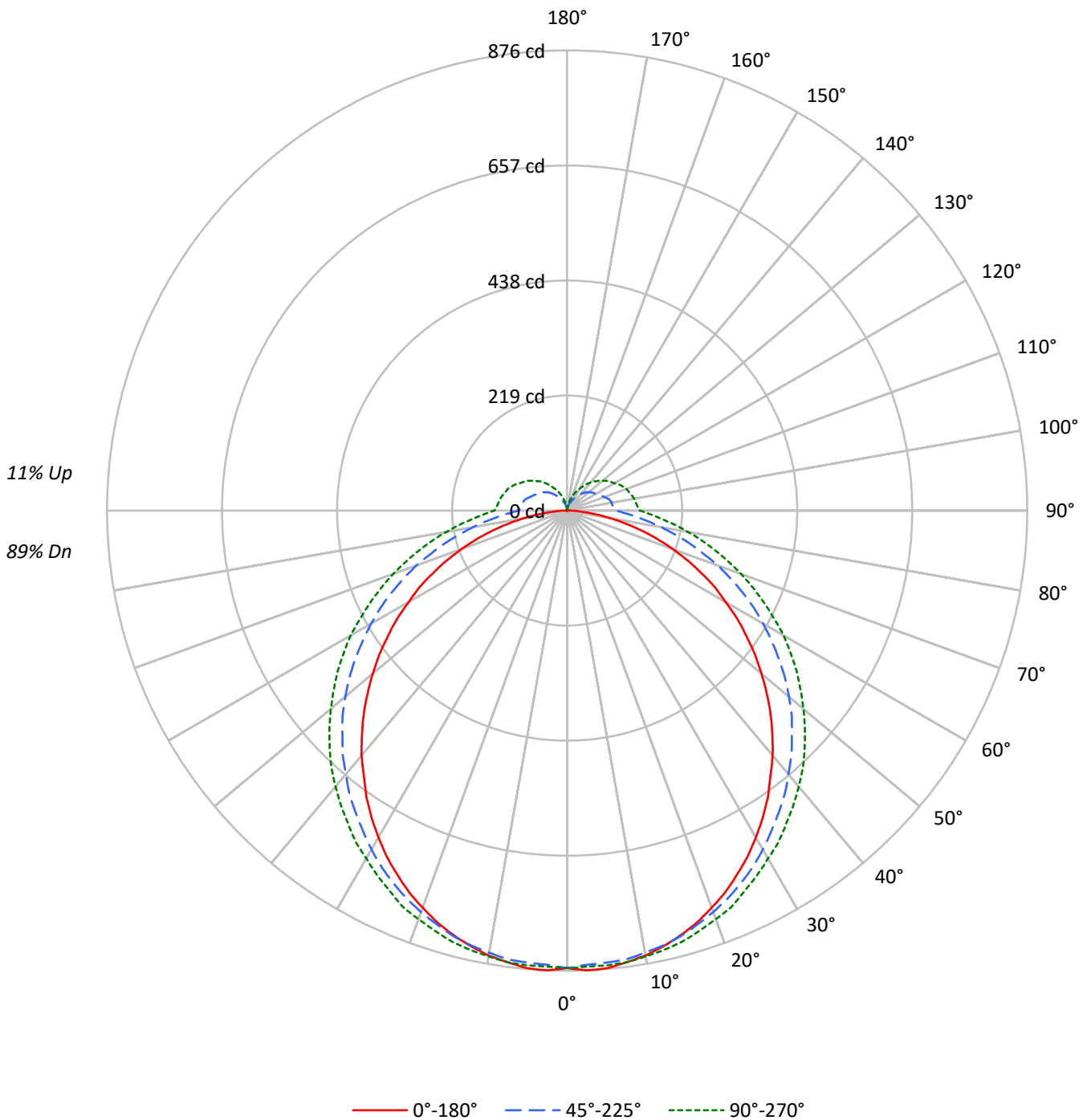
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.0 lumens
Efficiency: N/A
Efficacy: 129.2 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 24
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

TEST NUMBER: P566356
CATALOG NUMBER: 4SNX-37SL-LW-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566356

CATALOG NUMBER: 4SNX-37SL-LW-UNV-L940-CD

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° | 9373 | 9373 | 9373 |
| 5° | 9414 | 8939 | 8872 |
| 10° | 9331 | 8583 | 8429 |
| 15° | 9221 | 8238 | 8030 |
| 20° | 9077 | 7880 | 7630 |
| 25° | 8911 | 7537 | 7239 |
| 30° | 8717 | 7184 | 6865 |
| 35° | 8505 | 6829 | 6515 |
| 40° | 8264 | 6483 | 6180 |
| 45° | 8002 | 6137 | 5838 |
| 50° | 7706 | 5780 | 5479 |
| 55° | 7377 | 5383 | 5127 |
| 60° | 6993 | 4967 | 4754 |
| 65° | 6591 | 4520 | 4329 |
| 70° | 6035 | 4042 | 3911 |
| 75° | 5298 | 3487 | 3468 |
| 80° | 4141 | 2926 | 3026 |
| 85° | 2702 | 2408 | 2572 |



TEST NUMBER: P566356

CATALOG NUMBER: 4SNX-37SL-LW-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.7 | 2.7 |
| 10°-20° | 237.7 | 7.7 |
| 20°-30° | 361.5 | 11.7 |
| 30°-40° | 438.8 | 14.2 |
| 40°-50° | 463.7 | 15.0 |
| 50°-60° | 433.9 | 14.0 |
| 60°-70° | 356.0 | 11.5 |
| 70°-80° | 244.9 | 7.9 |
| 80°-90° | 134.1 | 4.3 |
| 90°-100° | 86.4 | 2.8 |
| 100°-110° | 77.5 | 2.5 |
| 110°-120° | 64.1 | 2.1 |
| 120°-130° | 49.4 | 1.6 |
| 130°-140° | 34.7 | 1.1 |
| 140°-150° | 20.9 | 0.7 |
| 150°-160° | 10.0 | 0.3 |
| 160°-170° | 3.3 | 0.1 |
| 170°-180° | 0.4 | 0.0 |
| 0°-30° | 681.9 | 22.0 |
| 0°-40° | 1120.7 | 36.2 |
| 0°-60° | 2018.3 | 65.1 |
| 0°-90° | 2753.3 | 88.8 |
| 90°-120° | 228.0 | 7.4 |
| 90°-150° | 333.0 | 10.7 |
| 90°-180° | 347.0 | 11.2 |
| 0°-180° | 3100.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 871 | 871 | 871 | 871 | 871 | |
| 5° | 874 | 873 | 864 | 871 | 869 | 83 |
| 15° | 837 | 840 | 838 | 849 | 849 | 236 |
| 25° | 765 | 774 | 783 | 799 | 799 | 352 |
| 35° | 666 | 682 | 702 | 722 | 727 | 416 |
| 45° | 548 | 573 | 605 | 632 | 639 | 422 |
| 55° | 416 | 451 | 492 | 522 | 533 | 373 |
| 65° | 282 | 320 | 368 | 402 | 413 | 279 |
| 75° | 147 | 187 | 241 | 278 | 291 | 155 |
| 85° | 32 | 77 | 131 | 167 | 180 | 37 |
| 90° | 0 | 43 | 92 | 126 | 138 | 2 |
| 95° | 0 | 41 | 88 | 120 | 133 | 0 |
| 105° | 0 | 34 | 83 | 113 | 124 | 1 |
| 115° | 2 | 30 | 70 | 100 | 113 | 2 |
| 125° | 2 | 25 | 59 | 86 | 97 | 2 |
| 135° | 2 | 20 | 48 | 70 | 79 | 1 |
| 145° | 2 | 14 | 34 | 54 | 59 | 1 |
| 155° | 2 | 9 | 22 | 34 | 40 | 1 |
| 165° | 2 | 5 | 11 | 16 | 20 | 1 |
| 175° | 2 | 2 | 4 | 4 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566356

CATALOG NUMBER: 4SNX-37SL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 870.8 | 870.8 | 870.8 | 870.8 | 870.8 |
| 2.5° | 876.2 | 874.4 | 865.4 | 872.6 | 869.0 |
| 5° | 874.4 | 872.6 | 863.6 | 870.8 | 869.0 |
| 7.5° | 867.2 | 867.2 | 861.8 | 869.0 | 867.2 |
| 10° | 860.0 | 860.0 | 854.6 | 863.6 | 861.8 |
| 12.5° | 849.3 | 851.0 | 847.5 | 858.2 | 856.4 |
| 15° | 836.7 | 840.3 | 838.5 | 849.3 | 849.3 |
| 17.5° | 822.3 | 825.9 | 825.9 | 838.5 | 838.5 |
| 20° | 804.4 | 809.8 | 813.3 | 827.7 | 827.7 |
| 22.5° | 786.4 | 793.6 | 799.0 | 811.5 | 816.9 |
| 25° | 764.9 | 773.8 | 782.8 | 799.0 | 799.0 |
| 27.5° | 743.3 | 754.1 | 764.9 | 781.0 | 782.8 |
| 30° | 718.2 | 730.8 | 745.1 | 761.3 | 764.9 |
| 32.5° | 693.0 | 709.2 | 723.6 | 743.3 | 748.7 |
| 35° | 666.1 | 682.3 | 702.0 | 721.8 | 727.2 |
| 37.5° | 635.6 | 655.3 | 680.5 | 702.0 | 707.4 |
| 40° | 608.7 | 630.2 | 655.3 | 680.5 | 685.9 |
| 42.5° | 578.1 | 601.5 | 632.0 | 655.3 | 664.3 |
| 45° | 547.6 | 572.8 | 605.1 | 632.0 | 639.2 |
| 47.5° | 515.3 | 544.0 | 579.9 | 605.1 | 614.0 |
| 50° | 483.0 | 513.5 | 551.2 | 579.9 | 587.1 |
| 52.5° | 450.7 | 483.0 | 522.5 | 551.2 | 560.2 |
| 55° | 416.5 | 450.7 | 492.0 | 522.5 | 533.3 |
| 57.5° | 384.2 | 418.3 | 461.4 | 493.8 | 504.5 |
| 60° | 348.3 | 387.8 | 430.9 | 463.2 | 475.8 |
| 62.5° | 317.8 | 353.7 | 400.4 | 432.7 | 443.5 |
| 65° | 281.9 | 319.6 | 368.1 | 402.2 | 413.0 |
| 67.5° | 247.8 | 287.3 | 335.8 | 371.7 | 382.4 |
| 70° | 213.7 | 253.2 | 305.2 | 339.3 | 351.9 |
| 72.5° | 179.5 | 220.8 | 271.1 | 308.8 | 321.4 |
| 75° | 147.2 | 186.7 | 240.6 | 278.3 | 290.9 |
| 77.5° | 113.1 | 156.2 | 210.1 | 247.8 | 262.1 |
| 80° | 82.6 | 127.5 | 181.3 | 219.0 | 233.4 |
| 82.5° | 55.7 | 100.5 | 154.4 | 192.1 | 206.5 |
| 85° | 32.3 | 77.2 | 131.1 | 167.0 | 179.5 |
| 87.5° | 16.2 | 59.3 | 109.5 | 145.4 | 158.0 |
| 90° | 0.0 | 43.1 | 91.6 | 125.7 | 138.3 |
| 92.5° | 0.0 | 41.3 | 89.8 | 122.1 | 134.7 |
| 95° | 0.0 | 41.3 | 88.0 | 120.3 | 132.9 |
| 97.5° | 0.0 | 39.5 | 86.2 | 120.3 | 131.1 |
| 100° | 0.0 | 37.7 | 86.2 | 118.5 | 129.3 |
| 102.5° | 0.0 | 35.9 | 84.4 | 116.7 | 127.5 |
| 105° | 0.0 | 34.1 | 82.6 | 113.1 | 123.9 |
| 107.5° | 1.8 | 34.1 | 79.0 | 111.3 | 122.1 |
| 110° | 1.8 | 32.3 | 75.4 | 109.5 | 120.3 |



TEST NUMBER: P566356

CATALOG NUMBER: 4SNX-37SL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.8 | 30.5 | 71.8 | 105.9 | 116.7 |
| 115° | 1.8 | 30.5 | 70.0 | 100.5 | 113.1 |
| 117.5° | 1.8 | 28.7 | 66.4 | 97.0 | 109.5 |
| 120° | 1.8 | 28.7 | 64.6 | 93.4 | 104.1 |
| 122.5° | 1.8 | 26.9 | 61.0 | 89.8 | 100.5 |
| 125° | 1.8 | 25.1 | 59.3 | 86.2 | 97.0 |
| 127.5° | 1.8 | 23.3 | 57.5 | 82.6 | 93.4 |
| 130° | 1.8 | 21.5 | 53.9 | 79.0 | 88.0 |
| 132.5° | 1.8 | 21.5 | 52.1 | 73.6 | 84.4 |
| 135° | 1.8 | 19.8 | 48.5 | 70.0 | 79.0 |
| 137.5° | 1.8 | 18.0 | 44.9 | 66.4 | 75.4 |
| 140° | 1.8 | 16.2 | 41.3 | 62.8 | 70.0 |
| 142.5° | 1.8 | 16.2 | 37.7 | 57.5 | 64.6 |
| 145° | 1.8 | 14.4 | 34.1 | 53.9 | 59.3 |
| 147.5° | 1.8 | 12.6 | 30.5 | 48.5 | 53.9 |
| 150° | 1.8 | 12.6 | 26.9 | 43.1 | 48.5 |
| 152.5° | 1.8 | 10.8 | 23.3 | 39.5 | 44.9 |
| 155° | 1.8 | 9.0 | 21.5 | 34.1 | 39.5 |
| 157.5° | 1.8 | 9.0 | 18.0 | 28.7 | 34.1 |
| 160° | 1.8 | 7.2 | 16.2 | 23.3 | 28.7 |
| 162.5° | 1.8 | 7.2 | 14.4 | 19.8 | 25.1 |
| 165° | 1.8 | 5.4 | 10.8 | 16.2 | 19.8 |
| 167.5° | 1.8 | 5.4 | 9.0 | 12.6 | 16.2 |
| 170° | 1.8 | 3.6 | 7.2 | 9.0 | 12.6 |
| 172.5° | 1.8 | 3.6 | 5.4 | 5.4 | 5.4 |
| 175° | 1.8 | 1.8 | 3.6 | 3.6 | 1.8 |
| 177.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 180° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |

(END OF REPORT)