

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: P566563

Luminaire Tested: **4SNX-51SL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-UNV-L935-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

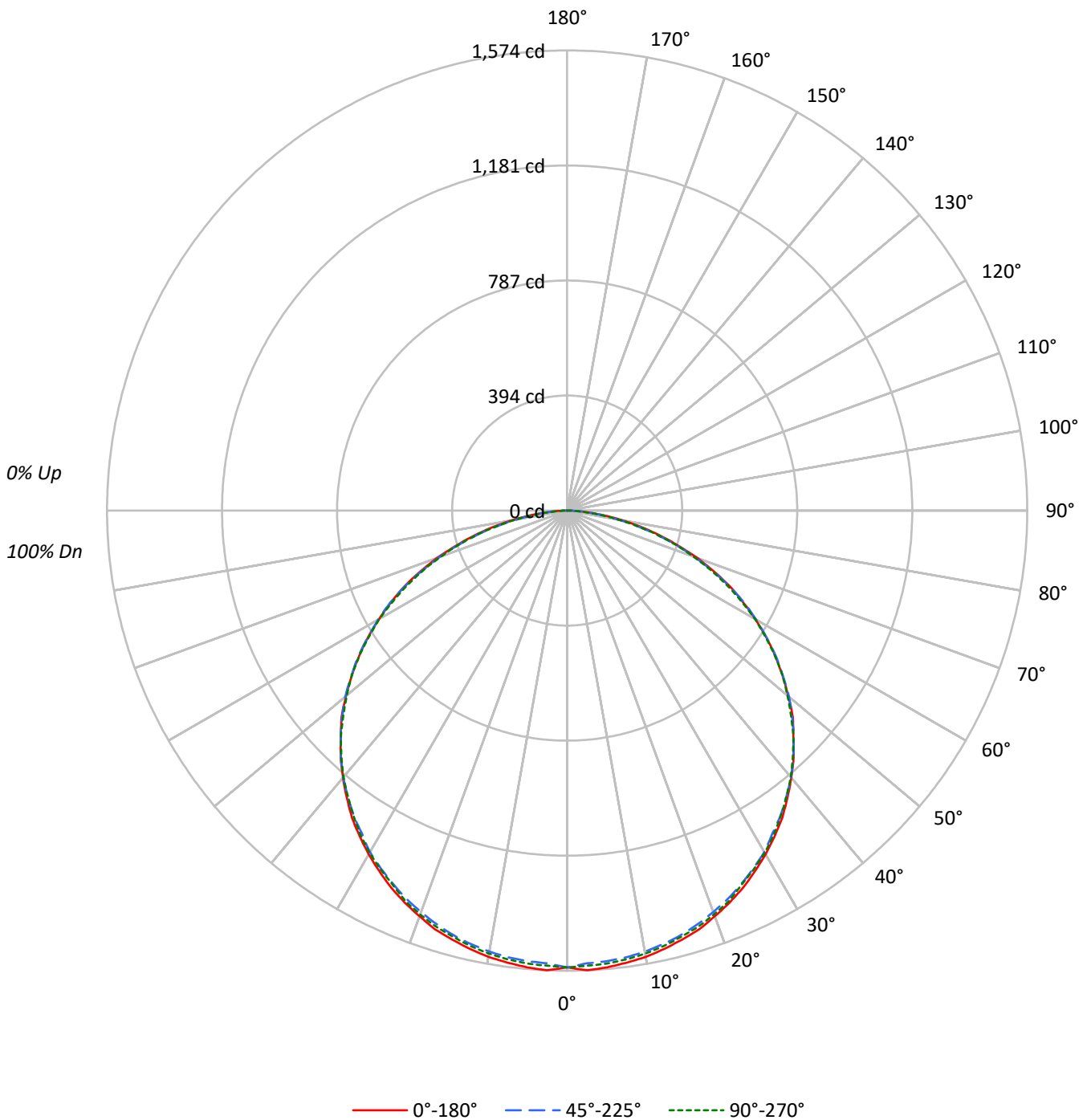
Lumens per Lamp: N/A
Luminaire Lumens: 4672.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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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Luminous Intensity Polar Plot





TEST NUMBER: P566563

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16819 | 16819 | 16819 |
| 5° | 16944 | 16716 | 16807 |
| 10° | 16940 | 16740 | 16818 |
| 15° | 16927 | 16754 | 16818 |
| 20° | 16916 | 16740 | 16836 |
| 25° | 16905 | 16739 | 16772 |
| 30° | 16871 | 16767 | 16802 |
| 35° | 16858 | 16729 | 16747 |
| 40° | 16763 | 16744 | 16724 |
| 45° | 16663 | 16684 | 16663 |
| 50° | 16541 | 16588 | 16471 |
| 55° | 16323 | 16375 | 16297 |
| 60° | 16002 | 16062 | 15971 |
| 65° | 15677 | 15567 | 15353 |
| 70° | 14902 | 14593 | 14417 |
| 75° | 13616 | 13150 | 13209 |
| 80° | 11759 | 10885 | 11151 |
| 85° | 8855 | 8509 | 7632 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.2 | 3.2 |
| 10°-20° | 427.1 | 9.1 |
| 20°-30° | 653.5 | 14.0 |
| 30°-40° | 799.1 | 17.1 |
| 40°-50° | 845.3 | 18.1 |
| 50°-60° | 778.8 | 16.7 |
| 60°-70° | 600.1 | 12.8 |
| 70°-80° | 336.3 | 7.2 |
| 80°-90° | 83.6 | 1.8 |
| 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° | 1228.9 | 26.3 |
| 0°-40° | 2028.0 | 43.4 |
| 0°-60° | 3652.0 | 78.2 |
| 0°-90° | 4672.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4672.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1562 | 1562 | 1562 | 1562 | 1562 | |
| 5° | 1568 | 1562 | 1547 | 1562 | 1556 | 149 |
| 15° | 1519 | 1516 | 1504 | 1516 | 1509 | 429 |
| 25° | 1423 | 1421 | 1409 | 1421 | 1412 | 656 |
| 35° | 1283 | 1280 | 1273 | 1277 | 1274 | 802 |
| 45° | 1095 | 1099 | 1096 | 1095 | 1095 | 846 |
| 55° | 870 | 877 | 873 | 873 | 868 | 777 |
| 65° | 616 | 616 | 611 | 596 | 603 | 605 |
| 75° | 327 | 323 | 316 | 305 | 318 | 347 |
| 85° | 72 | 67 | 69 | 69 | 62 | 88 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P566563

CATALOG NUMBER: 4SNX-51SL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1562.5 | 1562.5 | 1562.5 | 1562.5 | 1562.5 |
| 2.5° | 1573.8 | 1566.8 | 1549.9 | 1565.4 | 1558.3 |
| 5° | 1568.2 | 1562.5 | 1547.1 | 1562.5 | 1555.5 |
| 7.5° | 1559.7 | 1555.5 | 1541.5 | 1555.5 | 1548.5 |
| 10° | 1549.9 | 1545.7 | 1531.6 | 1545.7 | 1538.7 |
| 12.5° | 1535.8 | 1533.0 | 1519.0 | 1533.0 | 1526.0 |
| 15° | 1519.0 | 1516.2 | 1503.5 | 1516.2 | 1509.2 |
| 17.5° | 1502.1 | 1496.5 | 1483.9 | 1497.9 | 1492.3 |
| 20° | 1476.8 | 1474.0 | 1461.4 | 1474.0 | 1469.8 |
| 22.5° | 1451.5 | 1448.7 | 1437.5 | 1448.7 | 1445.9 |
| 25° | 1423.4 | 1420.6 | 1409.4 | 1420.6 | 1412.2 |
| 27.5° | 1391.1 | 1392.5 | 1379.9 | 1386.9 | 1382.7 |
| 30° | 1357.4 | 1357.4 | 1349.0 | 1351.8 | 1351.8 |
| 32.5° | 1320.9 | 1320.9 | 1308.2 | 1316.6 | 1315.2 |
| 35° | 1282.9 | 1280.1 | 1273.1 | 1277.3 | 1274.5 |
| 37.5° | 1238.0 | 1236.5 | 1232.3 | 1235.1 | 1232.3 |
| 40° | 1193.0 | 1194.4 | 1191.6 | 1190.2 | 1190.2 |
| 42.5° | 1146.6 | 1149.4 | 1145.2 | 1143.8 | 1142.4 |
| 45° | 1094.6 | 1098.8 | 1096.0 | 1094.6 | 1094.6 |
| 47.5° | 1046.9 | 1048.3 | 1044.0 | 1042.6 | 1038.4 |
| 50° | 987.8 | 993.5 | 990.6 | 987.8 | 983.6 |
| 52.5° | 928.8 | 937.2 | 931.6 | 928.8 | 928.8 |
| 55° | 869.8 | 876.8 | 872.6 | 872.6 | 868.4 |
| 57.5° | 808.0 | 815.0 | 809.4 | 809.4 | 803.8 |
| 60° | 743.3 | 750.4 | 746.1 | 741.9 | 741.9 |
| 62.5° | 678.7 | 684.3 | 682.9 | 675.9 | 671.7 |
| 65° | 615.5 | 615.5 | 611.2 | 595.8 | 602.8 |
| 67.5° | 543.8 | 542.4 | 536.8 | 521.3 | 531.2 |
| 70° | 473.5 | 473.5 | 463.7 | 445.4 | 458.1 |
| 72.5° | 397.7 | 401.9 | 389.2 | 376.6 | 389.2 |
| 75° | 327.4 | 323.2 | 316.2 | 304.9 | 317.6 |
| 77.5° | 260.0 | 252.9 | 244.5 | 238.9 | 245.9 |
| 80° | 189.7 | 185.5 | 175.6 | 175.6 | 179.9 |
| 82.5° | 129.3 | 125.1 | 118.0 | 119.4 | 113.8 |
| 85° | 71.7 | 67.4 | 68.9 | 68.9 | 61.8 |
| 87.5° | 29.5 | 29.5 | 29.5 | 26.7 | 23.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)