

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: P566572

Luminaire Tested: **4SNX-57SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566572
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-57SL-FDL-UNV-L940-CD
Description: 4FT 5700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

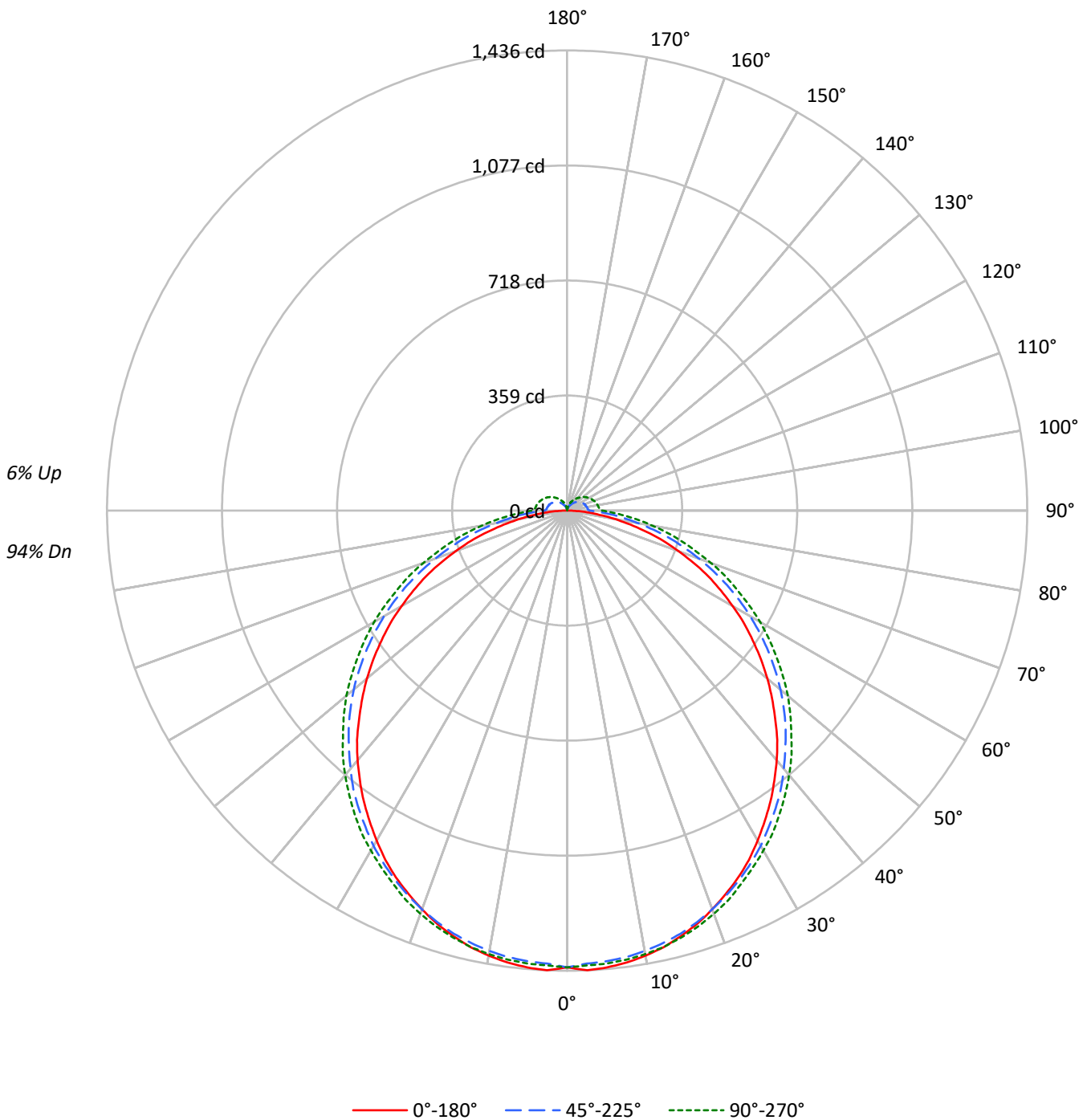
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.0 lumens
Efficiency: N/A
Efficacy: 114.1 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): 39.7
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: P566572
CATALOG NUMBER: 4SNX-57SL-FDL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566572

CATALOG NUMBER: 4SNX-57SL-FDL-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 | 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° | 15344 | 15344 | 15344 |
| 5° | 15449 | 15090 | 15113 |
| 10° | 15386 | 14926 | 14923 |
| 15° | 15271 | 14738 | 14710 |
| 20° | 15113 | 14509 | 14460 |
| 25° | 14934 | 14259 | 14162 |
| 30° | 14689 | 14003 | 13889 |
| 35° | 14441 | 13704 | 13603 |
| 40° | 14169 | 13373 | 13281 |
| 45° | 13826 | 13044 | 12906 |
| 50° | 13494 | 12671 | 12564 |
| 55° | 13083 | 12209 | 12087 |
| 60° | 12620 | 11680 | 11619 |
| 65° | 12130 | 11049 | 10973 |
| 70° | 11290 | 10256 | 10303 |
| 75° | 10276 | 9322 | 9502 |
| 80° | 8779 | 8083 | 8613 |
| 85° | 6909 | 7010 | 7572 |



TEST NUMBER: P566572

CATALOG NUMBER: 4SNX-57SL-FDL-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.2 | 3.0 |
| 10°-20° | 387.9 | 8.6 |
| 20°-30° | 587.9 | 13.0 |
| 30°-40° | 709.7 | 15.7 |
| 40°-50° | 741.1 | 16.4 |
| 50°-60° | 680.8 | 15.0 |
| 60°-70° | 538.4 | 11.9 |
| 70°-80° | 340.7 | 7.5 |
| 80°-90° | 146.5 | 3.2 |
| 90°-100° | 64.5 | 1.4 |
| 100°-110° | 57.7 | 1.3 |
| 110°-120° | 48.7 | 1.1 |
| 120°-130° | 38.0 | 0.8 |
| 130°-140° | 26.3 | 0.6 |
| 140°-150° | 15.8 | 0.3 |
| 150°-160° | 7.7 | 0.2 |
| 160°-170° | 2.7 | 0.1 |
| 170°-180° | 0.4 | 0.0 |
| 0°-30° | 1111.0 | 24.5 |
| 0°-40° | 1820.7 | 40.2 |
| 0°-60° | 3242.7 | 71.6 |
| 0°-90° | 4268.3 | 94.2 |
| 90°-120° | 170.9 | 3.8 |
| 90°-150° | 251.0 | 5.5 |
| 90°-180° | 262.0 | 5.8 |
| 0°-180° | 4530.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1426 | 1426 | 1426 | 1426 | 1426 | |
| 5° | 1431 | 1427 | 1412 | 1424 | 1419 | 136 |
| 15° | 1374 | 1374 | 1367 | 1381 | 1379 | 388 |
| 25° | 1264 | 1269 | 1271 | 1288 | 1285 | 582 |
| 35° | 1107 | 1120 | 1134 | 1152 | 1156 | 692 |
| 45° | 918 | 940 | 964 | 983 | 989 | 709 |
| 55° | 708 | 736 | 767 | 792 | 797 | 633 |
| 65° | 487 | 514 | 550 | 576 | 585 | 480 |
| 75° | 257 | 287 | 329 | 357 | 371 | 272 |
| 85° | 63 | 96 | 138 | 168 | 178 | 69 |
| 90° | 4 | 34 | 71 | 99 | 109 | 5 |
| 95° | 1 | 30 | 64 | 90 | 100 | 1 |
| 105° | 1 | 27 | 60 | 84 | 93 | 1 |
| 115° | 1 | 23 | 54 | 76 | 84 | 1 |
| 125° | 2 | 21 | 46 | 66 | 73 | 1 |
| 135° | 2 | 16 | 37 | 52 | 59 | 1 |
| 145° | 2 | 12 | 26 | 39 | 43 | 1 |
| 155° | 2 | 8 | 17 | 25 | 30 | 1 |
| 165° | 2 | 6 | 9 | 12 | 17 | 1 |
| 175° | 2 | 3 | 4 | 4 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566572

CATALOG NUMBER: 4SNX-57SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1425.5 | 1425.5 | 1425.5 | 1425.5 | 1425.5 |
| 2.5° | 1435.9 | 1431.1 | 1415.1 | 1426.3 | 1420.7 |
| 5° | 1431.1 | 1427.1 | 1411.9 | 1423.9 | 1419.1 |
| 7.5° | 1422.3 | 1419.1 | 1405.5 | 1418.3 | 1413.5 |
| 10° | 1410.3 | 1407.9 | 1395.8 | 1408.7 | 1405.5 |
| 12.5° | 1395.0 | 1394.2 | 1382.2 | 1396.6 | 1394.2 |
| 15° | 1374.2 | 1374.2 | 1366.9 | 1381.4 | 1379.0 |
| 17.5° | 1351.7 | 1352.5 | 1346.9 | 1362.1 | 1360.5 |
| 20° | 1324.4 | 1328.4 | 1324.4 | 1340.5 | 1338.9 |
| 22.5° | 1294.7 | 1300.4 | 1298.8 | 1314.8 | 1315.6 |
| 25° | 1263.5 | 1269.1 | 1270.7 | 1287.5 | 1285.1 |
| 27.5° | 1229.0 | 1237.8 | 1241.0 | 1256.2 | 1255.4 |
| 30° | 1188.9 | 1200.9 | 1208.1 | 1220.9 | 1225.0 |
| 32.5° | 1147.9 | 1162.4 | 1171.2 | 1188.9 | 1193.7 |
| 35° | 1107.0 | 1119.9 | 1134.3 | 1152.0 | 1156.0 |
| 37.5° | 1062.1 | 1076.5 | 1095.8 | 1112.6 | 1117.5 |
| 40° | 1017.2 | 1033.2 | 1051.7 | 1070.1 | 1077.4 |
| 42.5° | 970.7 | 987.5 | 1007.6 | 1029.2 | 1036.4 |
| 45° | 917.7 | 940.2 | 964.2 | 982.7 | 989.1 |
| 47.5° | 867.2 | 892.0 | 917.7 | 937.8 | 945.0 |
| 50° | 815.8 | 842.3 | 869.6 | 888.0 | 899.3 |
| 52.5° | 762.1 | 791.0 | 818.2 | 841.5 | 848.7 |
| 55° | 707.5 | 736.4 | 766.9 | 791.8 | 797.4 |
| 57.5° | 654.6 | 682.7 | 713.2 | 736.4 | 747.6 |
| 60° | 596.8 | 627.3 | 660.2 | 683.5 | 695.5 |
| 62.5° | 540.7 | 570.4 | 605.7 | 630.5 | 640.2 |
| 65° | 486.9 | 514.2 | 550.3 | 576.0 | 584.8 |
| 67.5° | 427.6 | 458.9 | 493.4 | 523.0 | 534.3 |
| 70° | 369.0 | 398.7 | 438.0 | 466.1 | 477.3 |
| 72.5° | 314.5 | 343.3 | 382.6 | 410.7 | 421.2 |
| 75° | 256.7 | 287.2 | 328.9 | 357.0 | 370.6 |
| 77.5° | 201.4 | 235.0 | 275.2 | 305.6 | 320.9 |
| 80° | 150.0 | 179.7 | 223.0 | 256.7 | 270.3 |
| 82.5° | 101.9 | 134.0 | 178.9 | 210.2 | 225.4 |
| 85° | 62.6 | 96.3 | 138.0 | 167.7 | 178.1 |
| 87.5° | 29.7 | 61.8 | 100.3 | 129.2 | 142.0 |
| 90° | 4.0 | 34.5 | 70.6 | 98.7 | 109.1 |
| 92.5° | 0.8 | 29.7 | 65.0 | 91.5 | 101.1 |
| 95° | 0.8 | 29.7 | 64.2 | 89.8 | 99.5 |
| 97.5° | 0.8 | 28.9 | 63.4 | 89.0 | 97.9 |
| 100° | 0.8 | 28.1 | 62.6 | 87.4 | 97.1 |
| 102.5° | 0.8 | 28.1 | 61.0 | 85.8 | 94.7 |
| 105° | 0.8 | 27.3 | 60.2 | 84.2 | 93.1 |
| 107.5° | 0.8 | 26.5 | 58.6 | 82.6 | 91.5 |
| 110° | 0.8 | 24.9 | 57.8 | 80.2 | 89.0 |



TEST NUMBER: P566572

CATALOG NUMBER: 4SNX-57SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.8 | 24.1 | 56.2 | 78.6 | 86.6 |
| 115° | 0.8 | 23.3 | 54.5 | 76.2 | 84.2 |
| 117.5° | 0.8 | 22.5 | 52.1 | 73.8 | 81.8 |
| 120° | 1.6 | 22.5 | 50.5 | 71.4 | 78.6 |
| 122.5° | 1.6 | 21.7 | 48.1 | 68.2 | 75.4 |
| 125° | 1.6 | 20.9 | 45.7 | 65.8 | 73.0 |
| 127.5° | 1.6 | 20.1 | 43.3 | 62.6 | 69.0 |
| 130° | 1.6 | 18.5 | 41.7 | 59.4 | 65.8 |
| 132.5° | 1.6 | 17.6 | 39.3 | 55.4 | 61.8 |
| 135° | 1.6 | 16.0 | 36.9 | 52.1 | 58.6 |
| 137.5° | 1.6 | 15.2 | 34.5 | 48.9 | 54.5 |
| 140° | 1.6 | 14.4 | 31.3 | 45.7 | 51.3 |
| 142.5° | 1.6 | 12.8 | 28.9 | 42.5 | 47.3 |
| 145° | 1.6 | 12.0 | 25.7 | 39.3 | 43.3 |
| 147.5° | 1.6 | 10.4 | 23.3 | 36.1 | 40.1 |
| 150° | 1.6 | 9.6 | 20.9 | 32.9 | 36.9 |
| 152.5° | 1.6 | 8.8 | 18.5 | 28.9 | 32.9 |
| 155° | 1.6 | 8.0 | 16.8 | 24.9 | 29.7 |
| 157.5° | 1.6 | 7.2 | 14.4 | 21.7 | 26.5 |
| 160° | 2.4 | 6.4 | 12.8 | 18.5 | 22.5 |
| 162.5° | 2.4 | 5.6 | 10.4 | 15.2 | 20.1 |
| 165° | 2.4 | 5.6 | 8.8 | 12.0 | 16.8 |
| 167.5° | 2.4 | 4.8 | 7.2 | 9.6 | 13.6 |
| 170° | 2.4 | 4.0 | 6.4 | 7.2 | 10.4 |
| 172.5° | 2.4 | 3.2 | 4.8 | 4.8 | 5.6 |
| 175° | 2.4 | 3.2 | 4.0 | 4.0 | 2.4 |
| 177.5° | 2.4 | 2.4 | 2.4 | 2.4 | 1.6 |
| 180° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |

(END OF REPORT)