

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: P566716

Luminaire Tested: **4SNX-67SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566716
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-67SL-FDL-UNV-L940-CD
Description: 4FT 6700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

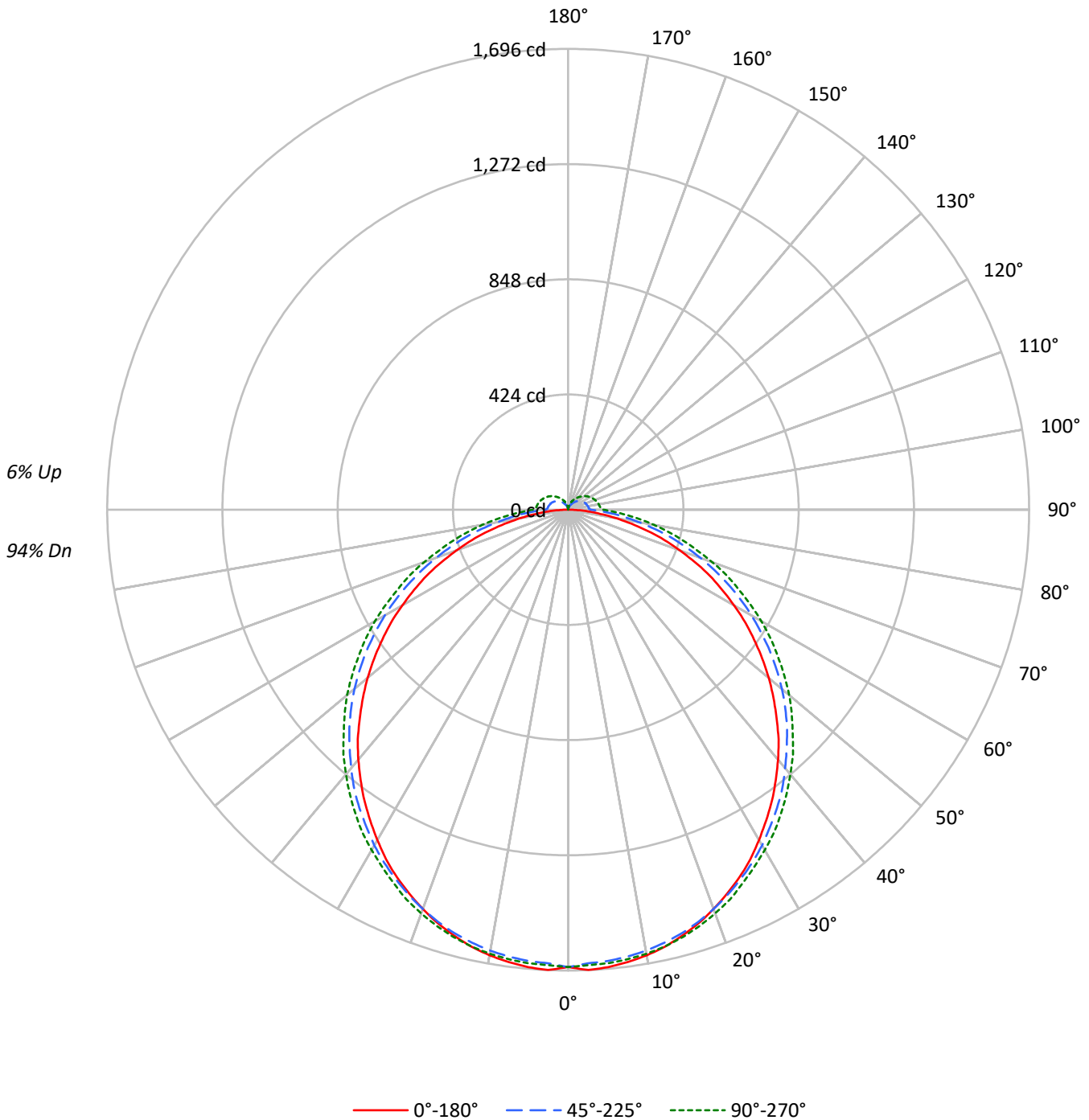
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5349.0 lumens
Efficiency: N/A
Efficacy: 111.7 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): 47.9
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: P566716
CATALOG NUMBER: 4SNX-67SL-FDL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566716

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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° | 18118 | 18118 | 18118 |
| 5° | 18243 | 17818 | 17846 |
| 10° | 18167 | 17626 | 17620 |
| 15° | 18031 | 17403 | 17369 |
| 20° | 17846 | 17133 | 17073 |
| 25° | 17633 | 16837 | 16723 |
| 30° | 17344 | 16535 | 16399 |
| 35° | 17053 | 16181 | 16062 |
| 40° | 16731 | 15790 | 15682 |
| 45° | 16325 | 15404 | 15239 |
| 50° | 15933 | 14962 | 14834 |
| 55° | 15449 | 14417 | 14271 |
| 60° | 14902 | 13792 | 13718 |
| 65° | 14325 | 13047 | 12956 |
| 70° | 13331 | 12111 | 12166 |
| 75° | 12134 | 11009 | 11220 |
| 80° | 10366 | 9544 | 10172 |
| 85° | 8156 | 8275 | 8941 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.6 | 3.0 |
| 10°-20° | 458.1 | 8.6 |
| 20°-30° | 694.2 | 13.0 |
| 30°-40° | 838.0 | 15.7 |
| 40°-50° | 875.1 | 16.4 |
| 50°-60° | 803.9 | 15.0 |
| 60°-70° | 635.7 | 11.9 |
| 70°-80° | 402.3 | 7.5 |
| 80°-90° | 173.0 | 3.2 |
| 90°-100° | 76.1 | 1.4 |
| 100°-110° | 68.1 | 1.3 |
| 110°-120° | 57.5 | 1.1 |
| 120°-130° | 44.9 | 0.8 |
| 130°-140° | 31.1 | 0.6 |
| 140°-150° | 18.6 | 0.3 |
| 150°-160° | 9.1 | 0.2 |
| 160°-170° | 3.1 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1311.9 | 24.5 |
| 0°-40° | 2149.9 | 40.2 |
| 0°-60° | 3828.9 | 71.6 |
| 0°-90° | 5039.9 | 94.2 |
| 90°-120° | 201.8 | 3.8 |
| 90°-150° | 296.3 | 5.5 |
| 90°-180° | 309.0 | 5.8 |
| 0°-180° | 5349.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1683 | 1683 | 1683 | 1683 | 1683 | |
| 5° | 1690 | 1685 | 1667 | 1681 | 1676 | 160 |
| 15° | 1623 | 1623 | 1614 | 1631 | 1628 | 458 |
| 25° | 1492 | 1498 | 1500 | 1520 | 1518 | 687 |
| 35° | 1307 | 1322 | 1339 | 1360 | 1365 | 817 |
| 45° | 1084 | 1110 | 1139 | 1160 | 1168 | 837 |
| 55° | 836 | 870 | 906 | 935 | 942 | 747 |
| 65° | 575 | 607 | 650 | 680 | 690 | 566 |
| 75° | 303 | 339 | 388 | 422 | 438 | 321 |
| 85° | 74 | 114 | 163 | 198 | 210 | 82 |
| 90° | 5 | 41 | 83 | 116 | 129 | 6 |
| 95° | 1 | 35 | 76 | 106 | 118 | 1 |
| 105° | 1 | 32 | 71 | 100 | 110 | 1 |
| 115° | 1 | 28 | 64 | 90 | 100 | 1 |
| 125° | 2 | 25 | 54 | 78 | 86 | 2 |
| 135° | 2 | 19 | 44 | 62 | 69 | 1 |
| 145° | 2 | 14 | 30 | 46 | 51 | 1 |
| 155° | 2 | 10 | 20 | 29 | 35 | 1 |
| 165° | 3 | 7 | 10 | 14 | 20 | 1 |
| 175° | 3 | 4 | 5 | 5 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566716

CATALOG NUMBER: 4SNX-67SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1683.2 | 1683.2 | 1683.2 | 1683.2 | 1683.2 |
| 2.5° | 1695.5 | 1689.9 | 1670.9 | 1684.2 | 1677.5 |
| 5° | 1689.9 | 1685.1 | 1667.1 | 1681.3 | 1675.7 |
| 7.5° | 1679.4 | 1675.7 | 1659.5 | 1674.7 | 1669.0 |
| 10° | 1665.2 | 1662.4 | 1648.2 | 1663.3 | 1659.5 |
| 12.5° | 1647.2 | 1646.3 | 1632.1 | 1649.1 | 1646.3 |
| 15° | 1622.6 | 1622.6 | 1614.1 | 1631.1 | 1628.3 |
| 17.5° | 1596.1 | 1597.0 | 1590.4 | 1608.4 | 1606.5 |
| 20° | 1563.9 | 1568.6 | 1563.9 | 1582.8 | 1580.9 |
| 22.5° | 1528.8 | 1535.5 | 1533.6 | 1552.5 | 1553.5 |
| 25° | 1491.9 | 1498.5 | 1500.4 | 1520.3 | 1517.5 |
| 27.5° | 1451.2 | 1461.6 | 1465.4 | 1483.4 | 1482.4 |
| 30° | 1403.8 | 1418.0 | 1426.5 | 1441.7 | 1446.4 |
| 32.5° | 1355.5 | 1372.5 | 1383.0 | 1403.8 | 1409.5 |
| 35° | 1307.2 | 1322.3 | 1339.4 | 1360.2 | 1365.0 |
| 37.5° | 1254.1 | 1271.2 | 1293.9 | 1313.8 | 1319.5 |
| 40° | 1201.1 | 1220.0 | 1241.8 | 1263.6 | 1272.1 |
| 42.5° | 1146.1 | 1166.0 | 1189.7 | 1215.3 | 1223.8 |
| 45° | 1083.6 | 1110.2 | 1138.6 | 1160.4 | 1167.9 |
| 47.5° | 1024.0 | 1053.3 | 1083.6 | 1107.3 | 1115.8 |
| 50° | 963.3 | 994.6 | 1026.8 | 1048.6 | 1061.8 |
| 52.5° | 899.9 | 934.0 | 966.2 | 993.6 | 1002.2 |
| 55° | 835.5 | 869.6 | 905.6 | 934.9 | 941.5 |
| 57.5° | 772.9 | 806.1 | 842.1 | 869.6 | 882.8 |
| 60° | 704.7 | 740.7 | 779.6 | 807.0 | 821.2 |
| 62.5° | 638.4 | 673.5 | 715.2 | 744.5 | 755.9 |
| 65° | 575.0 | 607.2 | 649.8 | 680.1 | 690.5 |
| 67.5° | 504.9 | 541.8 | 582.5 | 617.6 | 630.9 |
| 70° | 435.7 | 470.8 | 517.2 | 550.3 | 563.6 |
| 72.5° | 371.3 | 405.4 | 451.8 | 485.0 | 497.3 |
| 75° | 303.1 | 339.1 | 388.4 | 421.5 | 437.6 |
| 77.5° | 237.8 | 277.5 | 324.9 | 360.9 | 378.9 |
| 80° | 177.1 | 212.2 | 263.3 | 303.1 | 319.2 |
| 82.5° | 120.3 | 158.2 | 211.2 | 248.2 | 266.2 |
| 85° | 73.9 | 113.7 | 162.9 | 198.0 | 210.3 |
| 87.5° | 35.0 | 72.9 | 118.4 | 152.5 | 167.7 |
| 90° | 4.7 | 40.7 | 83.4 | 116.5 | 128.8 |
| 92.5° | 0.9 | 35.0 | 76.7 | 108.0 | 119.4 |
| 95° | 0.9 | 35.0 | 75.8 | 106.1 | 117.5 |
| 97.5° | 0.9 | 34.1 | 74.8 | 105.1 | 115.6 |
| 100° | 0.9 | 33.2 | 73.9 | 103.2 | 114.6 |
| 102.5° | 0.9 | 33.2 | 72.0 | 101.4 | 111.8 |
| 105° | 0.9 | 32.2 | 71.0 | 99.5 | 109.9 |
| 107.5° | 0.9 | 31.3 | 69.1 | 97.6 | 108.0 |
| 110° | 0.9 | 29.4 | 68.2 | 94.7 | 105.1 |



TEST NUMBER: P566716

CATALOG NUMBER: 4SNX-67SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.9 | 28.4 | 66.3 | 92.8 | 102.3 |
| 115° | 0.9 | 27.5 | 64.4 | 90.0 | 99.5 |
| 117.5° | 0.9 | 26.5 | 61.6 | 87.1 | 96.6 |
| 120° | 1.9 | 26.5 | 59.7 | 84.3 | 92.8 |
| 122.5° | 1.9 | 25.6 | 56.8 | 80.5 | 89.0 |
| 125° | 1.9 | 24.6 | 54.0 | 77.7 | 86.2 |
| 127.5° | 1.9 | 23.7 | 51.2 | 73.9 | 81.5 |
| 130° | 1.9 | 21.8 | 49.3 | 70.1 | 77.7 |
| 132.5° | 1.9 | 20.8 | 46.4 | 65.4 | 72.9 |
| 135° | 1.9 | 18.9 | 43.6 | 61.6 | 69.1 |
| 137.5° | 1.9 | 18.0 | 40.7 | 57.8 | 64.4 |
| 140° | 1.9 | 17.1 | 36.9 | 54.0 | 60.6 |
| 142.5° | 1.9 | 15.2 | 34.1 | 50.2 | 55.9 |
| 145° | 1.9 | 14.2 | 30.3 | 46.4 | 51.2 |
| 147.5° | 1.9 | 12.3 | 27.5 | 42.6 | 47.4 |
| 150° | 1.9 | 11.4 | 24.6 | 38.8 | 43.6 |
| 152.5° | 1.9 | 10.4 | 21.8 | 34.1 | 38.8 |
| 155° | 1.9 | 9.5 | 19.9 | 29.4 | 35.0 |
| 157.5° | 1.9 | 8.5 | 17.1 | 25.6 | 31.3 |
| 160° | 2.8 | 7.6 | 15.2 | 21.8 | 26.5 |
| 162.5° | 2.8 | 6.6 | 12.3 | 18.0 | 23.7 |
| 165° | 2.8 | 6.6 | 10.4 | 14.2 | 19.9 |
| 167.5° | 2.8 | 5.7 | 8.5 | 11.4 | 16.1 |
| 170° | 2.8 | 4.7 | 7.6 | 8.5 | 12.3 |
| 172.5° | 2.8 | 3.8 | 5.7 | 5.7 | 6.6 |
| 175° | 2.8 | 3.8 | 4.7 | 4.7 | 2.8 |
| 177.5° | 2.8 | 2.8 | 2.8 | 2.8 | 1.9 |
| 180° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |

(END OF REPORT)