

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: P566740

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566740
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-67SL-LW-UNV-L940-CD
Description: 4FT 6700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

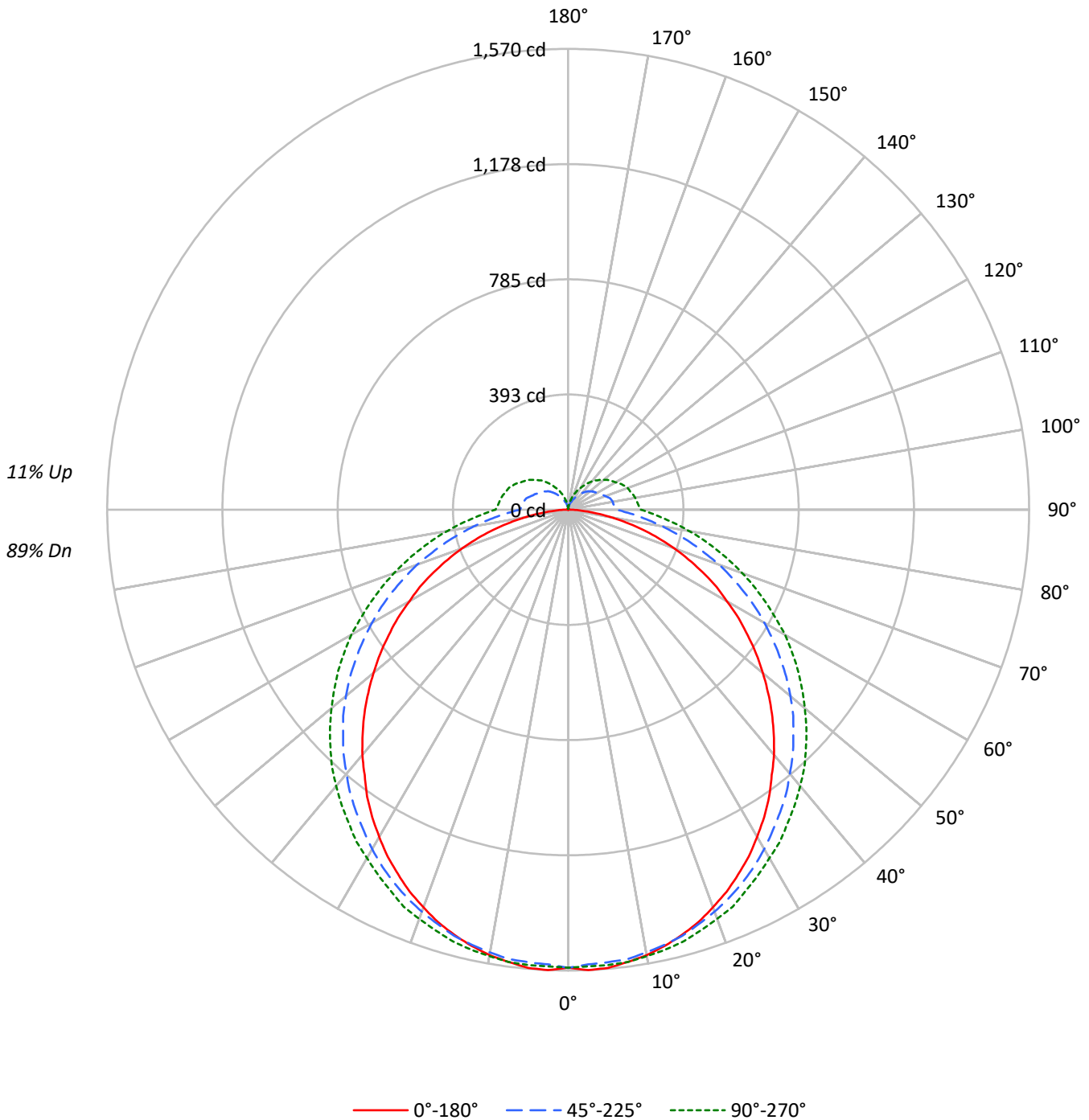
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5555.0 lumens
Efficiency: N/A
Efficacy: 116.0 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): 47.9
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

TEST NUMBER: P566740
CATALOG NUMBER: 4SNX-67SL-LW-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566740

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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 | 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° | 16796 | 16796 | 16796 |
| 5° | 16868 | 16019 | 15898 |
| 10° | 16721 | 15381 | 15104 |
| 15° | 16523 | 14762 | 14388 |
| 20° | 16264 | 14121 | 13672 |
| 25° | 15968 | 13506 | 12971 |
| 30° | 15619 | 12873 | 12301 |
| 35° | 15240 | 12238 | 11673 |
| 40° | 14808 | 11618 | 11074 |
| 45° | 14340 | 10996 | 10461 |
| 50° | 13808 | 10357 | 9818 |
| 55° | 13220 | 9645 | 9186 |
| 60° | 12533 | 8901 | 8518 |
| 65° | 11809 | 8100 | 7757 |
| 70° | 10813 | 7244 | 7009 |
| 75° | 9495 | 6249 | 6214 |
| 80° | 7421 | 5245 | 5423 |
| 85° | 4844 | 4314 | 4609 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.2 | 2.7 |
| 10°-20° | 426.0 | 7.7 |
| 20°-30° | 647.8 | 11.7 |
| 30°-40° | 786.3 | 14.2 |
| 40°-50° | 830.9 | 15.0 |
| 50°-60° | 777.5 | 14.0 |
| 60°-70° | 638.0 | 11.5 |
| 70°-80° | 438.8 | 7.9 |
| 80°-90° | 240.3 | 4.3 |
| 90°-100° | 154.7 | 2.8 |
| 100°-110° | 138.8 | 2.5 |
| 110°-120° | 114.9 | 2.1 |
| 120°-130° | 88.5 | 1.6 |
| 130°-140° | 62.2 | 1.1 |
| 140°-150° | 37.5 | 0.7 |
| 150°-160° | 17.9 | 0.3 |
| 160°-170° | 5.9 | 0.1 |
| 170°-180° | 0.7 | 0.0 |
| 0°-30° | 1222.0 | 22.0 |
| 0°-40° | 2008.3 | 36.2 |
| 0°-60° | 3616.7 | 65.1 |
| 0°-90° | 4933.8 | 88.8 |
| 90°-120° | 408.5 | 7.4 |
| 90°-150° | 596.7 | 10.7 |
| 90°-180° | 621.0 | 11.2 |
| 0°-180° | 5555.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1560 | 1560 | 1560 | 1560 | 1560 | |
| 5° | 1567 | 1564 | 1548 | 1560 | 1557 | 149 |
| 15° | 1499 | 1506 | 1502 | 1522 | 1522 | 423 |
| 25° | 1371 | 1387 | 1403 | 1432 | 1432 | 632 |
| 35° | 1194 | 1223 | 1258 | 1293 | 1303 | 746 |
| 45° | 981 | 1026 | 1084 | 1132 | 1145 | 756 |
| 55° | 746 | 808 | 882 | 936 | 956 | 668 |
| 65° | 505 | 573 | 660 | 721 | 740 | 500 |
| 75° | 264 | 335 | 431 | 499 | 521 | 278 |
| 85° | 58 | 138 | 235 | 299 | 322 | 67 |
| 90° | 0 | 77 | 164 | 225 | 248 | 4 |
| 95° | 0 | 74 | 158 | 216 | 238 | 0 |
| 105° | 0 | 61 | 148 | 203 | 222 | 2 |
| 115° | 3 | 55 | 126 | 180 | 203 | 3 |
| 125° | 3 | 45 | 106 | 154 | 174 | 3 |
| 135° | 3 | 35 | 87 | 126 | 142 | 2 |
| 145° | 3 | 26 | 61 | 96 | 106 | 2 |
| 155° | 3 | 16 | 39 | 61 | 71 | 1 |
| 165° | 3 | 10 | 19 | 29 | 35 | 1 |
| 175° | 3 | 3 | 6 | 6 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566740

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 |
| 2.5° | 1570.1 | 1566.8 | 1550.8 | 1563.6 | 1557.2 |
| 5° | 1566.8 | 1563.6 | 1547.5 | 1560.4 | 1557.2 |
| 7.5° | 1554.0 | 1554.0 | 1544.3 | 1557.2 | 1554.0 |
| 10° | 1541.1 | 1541.1 | 1531.5 | 1547.5 | 1544.3 |
| 12.5° | 1521.8 | 1525.0 | 1518.6 | 1537.9 | 1534.7 |
| 15° | 1499.3 | 1505.7 | 1502.5 | 1521.8 | 1521.8 |
| 17.5° | 1473.5 | 1480.0 | 1480.0 | 1502.5 | 1502.5 |
| 20° | 1441.4 | 1451.0 | 1457.5 | 1483.2 | 1483.2 |
| 22.5° | 1409.2 | 1422.1 | 1431.7 | 1454.2 | 1463.9 |
| 25° | 1370.6 | 1386.7 | 1402.8 | 1431.7 | 1431.7 |
| 27.5° | 1332.0 | 1351.3 | 1370.6 | 1399.5 | 1402.8 |
| 30° | 1286.9 | 1309.5 | 1335.2 | 1364.2 | 1370.6 |
| 32.5° | 1241.9 | 1270.9 | 1296.6 | 1332.0 | 1341.6 |
| 35° | 1193.6 | 1222.6 | 1258.0 | 1293.4 | 1303.0 |
| 37.5° | 1138.9 | 1174.3 | 1219.4 | 1258.0 | 1267.6 |
| 40° | 1090.7 | 1129.3 | 1174.3 | 1219.4 | 1229.0 |
| 42.5° | 1036.0 | 1077.8 | 1132.5 | 1174.3 | 1190.4 |
| 45° | 981.3 | 1026.3 | 1084.2 | 1132.5 | 1145.4 |
| 47.5° | 923.4 | 974.9 | 1039.2 | 1084.2 | 1100.3 |
| 50° | 865.5 | 920.2 | 987.7 | 1039.2 | 1052.1 |
| 52.5° | 807.6 | 865.5 | 936.2 | 987.7 | 1003.8 |
| 55° | 746.4 | 807.6 | 881.6 | 936.2 | 955.6 |
| 57.5° | 688.5 | 749.6 | 826.9 | 884.8 | 904.1 |
| 60° | 624.2 | 694.9 | 772.2 | 830.1 | 852.6 |
| 62.5° | 569.5 | 633.8 | 717.5 | 775.4 | 794.7 |
| 65° | 505.1 | 572.7 | 659.6 | 720.7 | 740.0 |
| 67.5° | 444.0 | 514.8 | 601.6 | 666.0 | 685.3 |
| 70° | 382.9 | 453.6 | 546.9 | 608.1 | 630.6 |
| 72.5° | 321.7 | 395.7 | 485.8 | 553.4 | 575.9 |
| 75° | 263.8 | 334.6 | 431.1 | 498.7 | 521.2 |
| 77.5° | 202.7 | 279.9 | 376.4 | 444.0 | 469.7 |
| 80° | 148.0 | 228.4 | 325.0 | 392.5 | 418.3 |
| 82.5° | 99.7 | 180.2 | 276.7 | 344.3 | 370.0 |
| 85° | 57.9 | 138.3 | 234.9 | 299.2 | 321.7 |
| 87.5° | 29.0 | 106.2 | 196.3 | 260.6 | 283.1 |
| 90° | 0.0 | 77.2 | 164.1 | 225.2 | 247.7 |
| 92.5° | 0.0 | 74.0 | 160.9 | 218.8 | 241.3 |
| 95° | 0.0 | 74.0 | 157.6 | 215.6 | 238.1 |
| 97.5° | 0.0 | 70.8 | 154.4 | 215.6 | 234.9 |
| 100° | 0.0 | 67.6 | 154.4 | 212.3 | 231.6 |
| 102.5° | 0.0 | 64.3 | 151.2 | 209.1 | 228.4 |
| 105° | 0.0 | 61.1 | 148.0 | 202.7 | 222.0 |
| 107.5° | 3.2 | 61.1 | 141.6 | 199.5 | 218.8 |
| 110° | 3.2 | 57.9 | 135.1 | 196.3 | 215.6 |



TEST NUMBER: P566740

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

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.2 | 54.7 | 128.7 | 189.8 | 209.1 |
| 115° | 3.2 | 54.7 | 125.5 | 180.2 | 202.7 |
| 117.5° | 3.2 | 51.5 | 119.0 | 173.7 | 196.3 |
| 120° | 3.2 | 51.5 | 115.8 | 167.3 | 186.6 |
| 122.5° | 3.2 | 48.3 | 109.4 | 160.9 | 180.2 |
| 125° | 3.2 | 45.0 | 106.2 | 154.4 | 173.7 |
| 127.5° | 3.2 | 41.8 | 103.0 | 148.0 | 167.3 |
| 130° | 3.2 | 38.6 | 96.5 | 141.6 | 157.6 |
| 132.5° | 3.2 | 38.6 | 93.3 | 131.9 | 151.2 |
| 135° | 3.2 | 35.4 | 86.9 | 125.5 | 141.6 |
| 137.5° | 3.2 | 32.2 | 80.4 | 119.0 | 135.1 |
| 140° | 3.2 | 29.0 | 74.0 | 112.6 | 125.5 |
| 142.5° | 3.2 | 29.0 | 67.6 | 103.0 | 115.8 |
| 145° | 3.2 | 25.7 | 61.1 | 96.5 | 106.2 |
| 147.5° | 3.2 | 22.5 | 54.7 | 86.9 | 96.5 |
| 150° | 3.2 | 22.5 | 48.3 | 77.2 | 86.9 |
| 152.5° | 3.2 | 19.3 | 41.8 | 70.8 | 80.4 |
| 155° | 3.2 | 16.1 | 38.6 | 61.1 | 70.8 |
| 157.5° | 3.2 | 16.1 | 32.2 | 51.5 | 61.1 |
| 160° | 3.2 | 12.9 | 29.0 | 41.8 | 51.5 |
| 162.5° | 3.2 | 12.9 | 25.7 | 35.4 | 45.0 |
| 165° | 3.2 | 9.7 | 19.3 | 29.0 | 35.4 |
| 167.5° | 3.2 | 9.7 | 16.1 | 22.5 | 29.0 |
| 170° | 3.2 | 6.4 | 12.9 | 16.1 | 22.5 |
| 172.5° | 3.2 | 6.4 | 9.7 | 9.7 | 9.7 |
| 175° | 3.2 | 3.2 | 6.4 | 6.4 | 3.2 |
| 177.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 180° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |

(END OF REPORT)