

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: P566617

Luminaire Tested: **4SNX-60SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566617  
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-60SL-FDL-UNV-L850-CD  
Description: 4FT 6000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

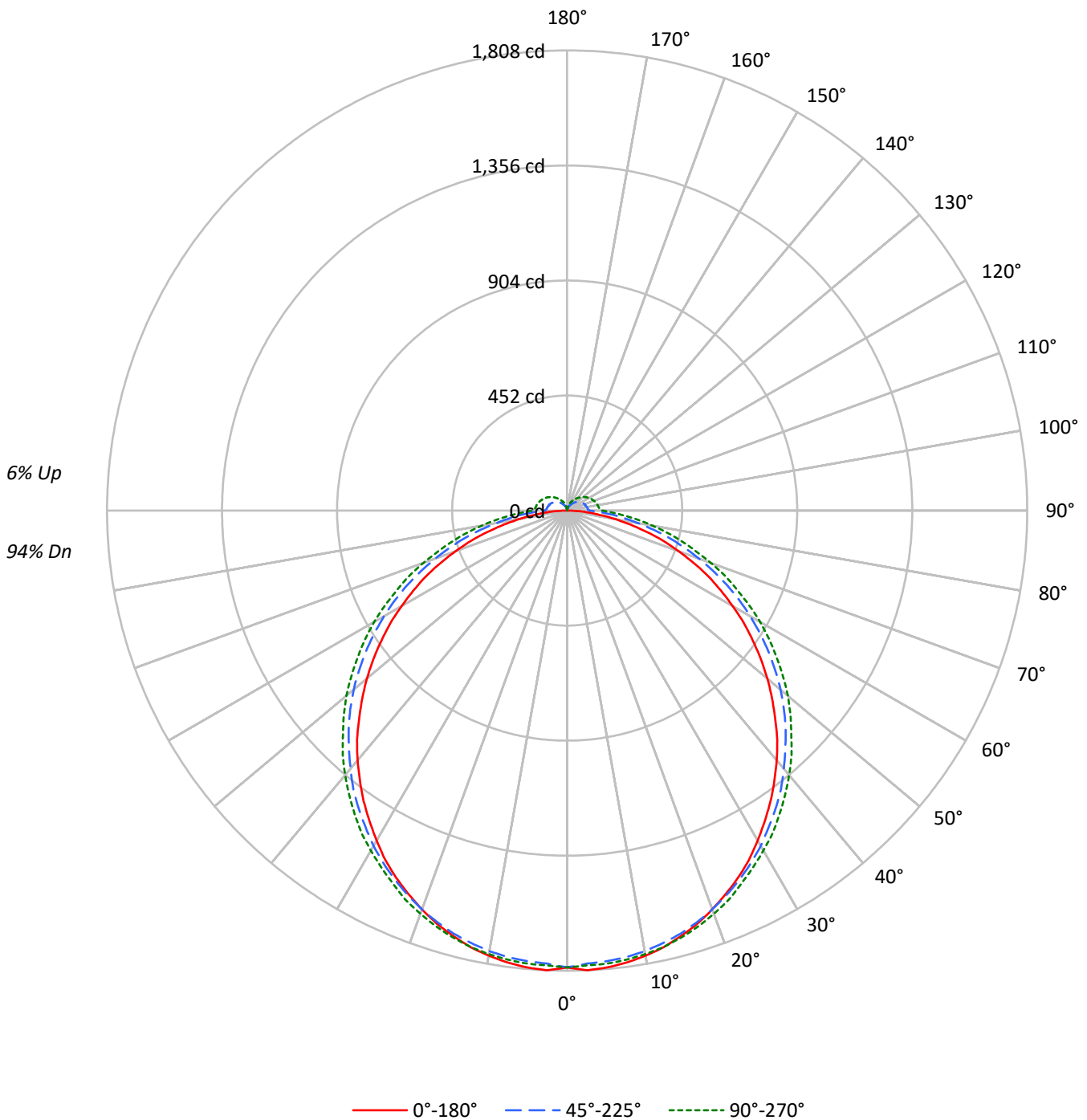
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5704.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 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): 42  
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





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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 | 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°  | 19320 | 19320 | 19320 |
| 5°  | 19453 | 19001 | 19030 |
| 10° | 19373 | 18796 | 18791 |
| 15° | 19228 | 18558 | 18523 |
| 20° | 19031 | 18270 | 18207 |
| 25° | 18803 | 17954 | 17833 |
| 30° | 18495 | 17632 | 17488 |
| 35° | 18184 | 17255 | 17127 |
| 40° | 17841 | 16838 | 16723 |
| 45° | 17410 | 16425 | 16250 |
| 50° | 16992 | 15954 | 15819 |
| 55° | 16474 | 15373 | 15219 |
| 60° | 15891 | 14706 | 14631 |
| 65° | 15274 | 13912 | 13817 |
| 70° | 14215 | 12914 | 12974 |
| 75° | 12938 | 11737 | 11966 |
| 80° | 11056 | 10178 | 10847 |
| 85° | 8697  | 8824  | 9531  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.2  | 3.0       |
| 10°-20°   | 488.5  | 8.6       |
| 20°-30°   | 740.3  | 13.0      |
| 30°-40°   | 893.6  | 15.7      |
| 40°-50°   | 933.2  | 16.4      |
| 50°-60°   | 857.3  | 15.0      |
| 60°-70°   | 677.9  | 11.9      |
| 70°-80°   | 429.0  | 7.5       |
| 80°-90°   | 184.4  | 3.2       |
| 90°-100°  | 81.2   | 1.4       |
| 100°-110° | 72.7   | 1.3       |
| 110°-120° | 61.4   | 1.1       |
| 120°-130° | 47.8   | 0.8       |
| 130°-140° | 33.1   | 0.6       |
| 140°-150° | 19.9   | 0.3       |
| 150°-160° | 9.7    | 0.2       |
| 160°-170° | 3.4    | 0.1       |
| 170°-180° | 0.5    | 0.0       |
| 0°-30°    | 1399.0 | 24.5      |
| 0°-40°    | 2292.6 | 40.2      |
| 0°-60°    | 4083.0 | 71.6      |
| 0°-90°    | 5374.4 | 94.2      |
| 90°-120°  | 215.2  | 3.8       |
| 90°-150°  | 316.0  | 5.5       |
| 90°-180°  | 330.0  | 5.8       |
| 0°-180°   | 5704.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1795 | 1795  | 1795 | 1795  | 1795 |      |
| 5°   | 1802 | 1797  | 1778 | 1793  | 1787 | 171  |
| 15°  | 1730 | 1730  | 1721 | 1739  | 1736 | 488  |
| 25°  | 1591 | 1598  | 1600 | 1621  | 1618 | 733  |
| 35°  | 1394 | 1410  | 1428 | 1450  | 1456 | 871  |
| 45°  | 1156 | 1184  | 1214 | 1237  | 1245 | 893  |
| 55°  | 891  | 927   | 966  | 997   | 1004 | 797  |
| 65°  | 613  | 648   | 693  | 725   | 736  | 604  |
| 75°  | 323  | 362   | 414  | 450   | 467  | 343  |
| 85°  | 79   | 121   | 174  | 211   | 224  | 87   |
| 90°  | 5    | 43    | 89   | 124   | 137  | 7    |
| 95°  | 1    | 37    | 81   | 113   | 125  | 1    |
| 105° | 1    | 34    | 76   | 106   | 117  | 1    |
| 115° | 1    | 29    | 69   | 96    | 106  | 1    |
| 125° | 2    | 26    | 58   | 83    | 92   | 2    |
| 135° | 2    | 20    | 46   | 66    | 74   | 2    |
| 145° | 2    | 15    | 32   | 50    | 54   | 1    |
| 155° | 2    | 10    | 21   | 31    | 37   | 1    |
| 165° | 3    | 7     | 11   | 15    | 21   | 1    |
| 175° | 3    | 4     | 5    | 5     | 3    | 0    |
| 180° | 3    | 3     | 3    | 3     | 3    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1794.9 | 1794.9 | 1794.9 | 1794.9 | 1794.9 |
| 2.5°   | 1808.1 | 1802.0 | 1781.8 | 1796.0 | 1788.9 |
| 5°     | 1802.0 | 1797.0 | 1777.8 | 1792.9 | 1786.9 |
| 7.5°   | 1790.9 | 1786.9 | 1769.7 | 1785.9 | 1779.8 |
| 10°    | 1775.7 | 1772.7 | 1757.6 | 1773.7 | 1769.7 |
| 12.5°  | 1756.6 | 1755.5 | 1740.4 | 1758.6 | 1755.5 |
| 15°    | 1730.3 | 1730.3 | 1721.2 | 1739.4 | 1736.4 |
| 17.5°  | 1702.0 | 1703.0 | 1696.0 | 1715.1 | 1713.1 |
| 20°    | 1667.7 | 1672.7 | 1667.7 | 1687.9 | 1685.9 |
| 22.5°  | 1630.3 | 1637.4 | 1635.3 | 1655.5 | 1656.6 |
| 25°    | 1590.9 | 1598.0 | 1600.0 | 1621.2 | 1618.2 |
| 27.5°  | 1547.5 | 1558.6 | 1562.6 | 1581.8 | 1580.8 |
| 30°    | 1497.0 | 1512.1 | 1521.2 | 1537.4 | 1542.4 |
| 32.5°  | 1445.4 | 1463.6 | 1474.7 | 1497.0 | 1503.0 |
| 35°    | 1393.9 | 1410.1 | 1428.3 | 1450.5 | 1455.5 |
| 37.5°  | 1337.4 | 1355.5 | 1379.8 | 1401.0 | 1407.1 |
| 40°    | 1280.8 | 1301.0 | 1324.2 | 1347.5 | 1356.6 |
| 42.5°  | 1222.2 | 1243.4 | 1268.7 | 1296.0 | 1305.0 |
| 45°    | 1155.6 | 1183.8 | 1214.1 | 1237.4 | 1245.4 |
| 47.5°  | 1091.9 | 1123.2 | 1155.6 | 1180.8 | 1189.9 |
| 50°    | 1027.3 | 1060.6 | 1094.9 | 1118.2 | 1132.3 |
| 52.5°  | 959.6  | 996.0  | 1030.3 | 1059.6 | 1068.7 |
| 55°    | 890.9  | 927.3  | 965.7  | 997.0  | 1004.0 |
| 57.5°  | 824.2  | 859.6  | 898.0  | 927.3  | 941.4  |
| 60°    | 751.5  | 789.9  | 831.3  | 860.6  | 875.8  |
| 62.5°  | 680.8  | 718.2  | 762.6  | 793.9  | 806.1  |
| 65°    | 613.1  | 647.5  | 692.9  | 725.2  | 736.4  |
| 67.5°  | 538.4  | 577.8  | 621.2  | 658.6  | 672.7  |
| 70°    | 464.6  | 502.0  | 551.5  | 586.9  | 601.0  |
| 72.5°  | 396.0  | 432.3  | 481.8  | 517.2  | 530.3  |
| 75°    | 323.2  | 361.6  | 414.1  | 449.5  | 466.7  |
| 77.5°  | 253.5  | 296.0  | 346.5  | 384.8  | 404.0  |
| 80°    | 188.9  | 226.3  | 280.8  | 323.2  | 340.4  |
| 82.5°  | 128.3  | 168.7  | 225.3  | 264.6  | 283.8  |
| 85°    | 78.8   | 121.2  | 173.7  | 211.1  | 224.2  |
| 87.5°  | 37.4   | 77.8   | 126.3  | 162.6  | 178.8  |
| 90°    | 5.1    | 43.4   | 88.9   | 124.2  | 137.4  |
| 92.5°  | 1.0    | 37.4   | 81.8   | 115.2  | 127.3  |
| 95°    | 1.0    | 37.4   | 80.8   | 113.1  | 125.3  |
| 97.5°  | 1.0    | 36.4   | 79.8   | 112.1  | 123.2  |
| 100°   | 1.0    | 35.4   | 78.8   | 110.1  | 122.2  |
| 102.5° | 1.0    | 35.4   | 76.8   | 108.1  | 119.2  |
| 105°   | 1.0    | 34.3   | 75.8   | 106.1  | 117.2  |
| 107.5° | 1.0    | 33.3   | 73.7   | 104.0  | 115.2  |
| 110°   | 1.0    | 31.3   | 72.7   | 101.0  | 112.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.0 | 30.3  | 70.7 | 99.0  | 109.1 |
| 115°   | 1.0 | 29.3  | 68.7 | 96.0  | 106.1 |
| 117.5° | 1.0 | 28.3  | 65.7 | 92.9  | 103.0 |
| 120°   | 2.0 | 28.3  | 63.6 | 89.9  | 99.0  |
| 122.5° | 2.0 | 27.3  | 60.6 | 85.9  | 94.9  |
| 125°   | 2.0 | 26.3  | 57.6 | 82.8  | 91.9  |
| 127.5° | 2.0 | 25.3  | 54.5 | 78.8  | 86.9  |
| 130°   | 2.0 | 23.2  | 52.5 | 74.7  | 82.8  |
| 132.5° | 2.0 | 22.2  | 49.5 | 69.7  | 77.8  |
| 135°   | 2.0 | 20.2  | 46.5 | 65.7  | 73.7  |
| 137.5° | 2.0 | 19.2  | 43.4 | 61.6  | 68.7  |
| 140°   | 2.0 | 18.2  | 39.4 | 57.6  | 64.6  |
| 142.5° | 2.0 | 16.2  | 36.4 | 53.5  | 59.6  |
| 145°   | 2.0 | 15.2  | 32.3 | 49.5  | 54.5  |
| 147.5° | 2.0 | 13.1  | 29.3 | 45.5  | 50.5  |
| 150°   | 2.0 | 12.1  | 26.3 | 41.4  | 46.5  |
| 152.5° | 2.0 | 11.1  | 23.2 | 36.4  | 41.4  |
| 155°   | 2.0 | 10.1  | 21.2 | 31.3  | 37.4  |
| 157.5° | 2.0 | 9.1   | 18.2 | 27.3  | 33.3  |
| 160°   | 3.0 | 8.1   | 16.2 | 23.2  | 28.3  |
| 162.5° | 3.0 | 7.1   | 13.1 | 19.2  | 25.3  |
| 165°   | 3.0 | 7.1   | 11.1 | 15.2  | 21.2  |
| 167.5° | 3.0 | 6.1   | 9.1  | 12.1  | 17.2  |
| 170°   | 3.0 | 5.1   | 8.1  | 9.1   | 13.1  |
| 172.5° | 3.0 | 4.0   | 6.1  | 6.1   | 7.1   |
| 175°   | 3.0 | 4.0   | 5.1  | 5.1   | 3.0   |
| 177.5° | 3.0 | 3.0   | 3.0  | 3.0   | 2.0   |
| 180°   | 3.0 | 3.0   | 3.0  | 3.0   | 3.0   |

(END OF REPORT)