

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: P567749

Luminaire Tested: **8SNX-40SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-40SL-LN-UNV-L850-CD  
Description: 8FT 4000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

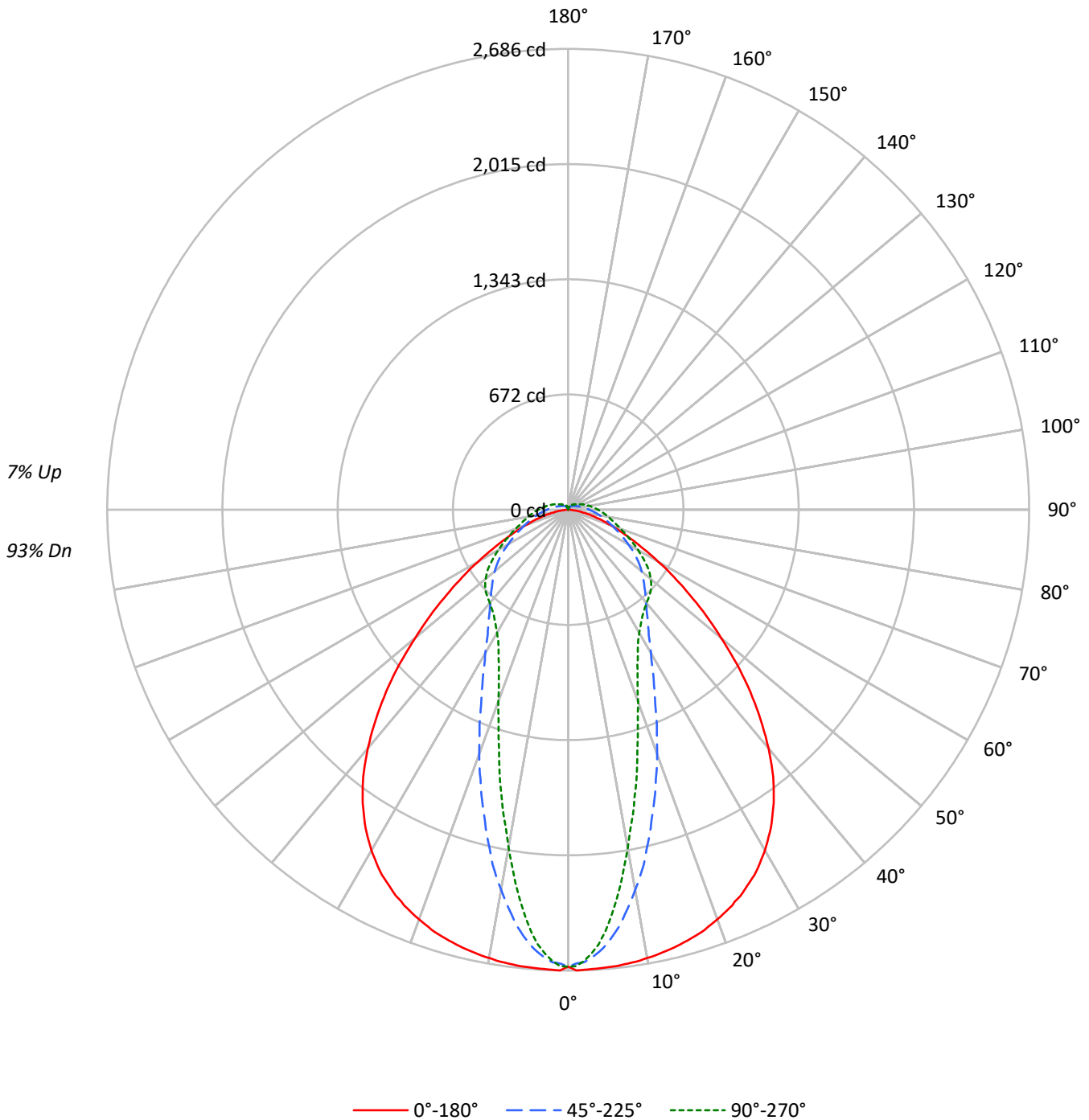
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4246.0 lumens  
Efficiency: N/A  
Efficacy: 175.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 24.2  
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 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1   | 107 | 103 | 99  | 95  | 104 | 100 | 96  | 93  | 94  | 91  | 88  | 89  | 87  | 85  | 85 | 83 | 81 | 78 |
| 2   | 99  | 91  | 84  | 79  | 95  | 88  | 82  | 77  | 84  | 79  | 75  | 79  | 75  | 72  | 76 | 72 | 69 | 67 |
| 3   | 91  | 81  | 73  | 67  | 88  | 79  | 72  | 66  | 75  | 69  | 64  | 71  | 66  | 62  | 68 | 64 | 60 | 58 |
| 4   | 84  | 73  | 64  | 58  | 81  | 71  | 63  | 57  | 67  | 61  | 56  | 64  | 59  | 54  | 62 | 57 | 53 | 51 |
| 5   | 78  | 66  | 57  | 51  | 75  | 64  | 56  | 51  | 61  | 55  | 49  | 59  | 53  | 48  | 56 | 51 | 47 | 45 |
| 6   | 72  | 60  | 51  | 45  | 70  | 59  | 51  | 45  | 56  | 49  | 44  | 54  | 48  | 43  | 52 | 46 | 42 | 40 |
| 7   | 67  | 55  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 45  | 40  | 50  | 44  | 39  | 48 | 42 | 38 | 36 |
| 8   | 63  | 51  | 43  | 37  | 61  | 50  | 42  | 37  | 48  | 41  | 36  | 46  | 40  | 36  | 44 | 39 | 35 | 33 |
| 9   | 59  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 41 | 36 | 32 | 30 |
| 10  | 56  | 44  | 36  | 31  | 54  | 43  | 36  | 31  | 41  | 35  | 31  | 40  | 34  | 30  | 39 | 34 | 30 | 28 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14335 | 14335 | 14335 |
| 5°  | 14436 | 13192 | 12609 |
| 10° | 14443 | 11324 | 9783  |
| 15° | 14463 | 9248  | 7332  |
| 20° | 14445 | 7374  | 5487  |
| 25° | 14344 | 5785  | 4355  |
| 30° | 14074 | 4687  | 3715  |
| 35° | 13517 | 3970  | 3379  |
| 40° | 12538 | 3509  | 3198  |
| 45° | 11182 | 3214  | 3099  |
| 50° | 9508  | 2961  | 2928  |
| 55° | 7847  | 2687  | 2674  |
| 60° | 6311  | 2367  | 2345  |
| 65° | 4937  | 2081  | 2041  |
| 70° | 3876  | 1844  | 1805  |
| 75° | 3048  | 1661  | 1645  |
| 80° | 2220  | 1524  | 1529  |
| 85° | 1332  | 1425  | 1466  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 235.9  | 5.6       |
| 10°-20°   | 552.9  | 13.0      |
| 20°-30°   | 656.3  | 15.5      |
| 30°-40°   | 660.3  | 15.6      |
| 40°-50°   | 613.8  | 14.5      |
| 50°-60°   | 505.4  | 11.9      |
| 60°-70°   | 356.1  | 8.4       |
| 70°-80°   | 232.7  | 5.5       |
| 80°-90°   | 148.5  | 3.5       |
| 90°-100°  | 97.4   | 2.3       |
| 100°-110° | 66.1   | 1.6       |
| 110°-120° | 45.3   | 1.1       |
| 120°-130° | 31.4   | 0.7       |
| 130°-140° | 21.1   | 0.5       |
| 140°-150° | 13.0   | 0.3       |
| 150°-160° | 6.8    | 0.2       |
| 160°-170° | 2.4    | 0.1       |
| 170°-180° | 0.4    | 0.0       |
| 0°-30°    | 1445.1 | 34.0      |
| 0°-40°    | 2105.4 | 49.6      |
| 0°-60°    | 3224.7 | 75.9      |
| 0°-90°    | 3962.0 | 93.3      |
| 90°-120°  | 208.9  | 4.9       |
| 90°-150°  | 274.4  | 6.5       |
| 90°-180°  | 284.0  | 6.7       |
| 0°-180°   | 4246.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2664 | 2664  | 2664 | 2664  | 2664 |      |
| 5°   | 2677 | 2641  | 2546 | 2497  | 2470 | 255  |
| 15°  | 2610 | 2332  | 1876 | 1640  | 1551 | 737  |
| 25°  | 2439 | 1802  | 1195 | 1004  | 961  | 1122 |
| 35°  | 2087 | 1219  | 810  | 759   | 754  | 1298 |
| 45°  | 1500 | 803   | 628  | 661   | 679  | 1151 |
| 55°  | 861  | 527   | 485  | 538   | 556  | 778  |
| 65°  | 405  | 318   | 334  | 376   | 389  | 411  |
| 75°  | 158  | 165   | 225  | 265   | 276  | 171  |
| 85°  | 27   | 76    | 151  | 196   | 205  | 34   |
| 90°  | 0    | 51    | 122  | 167   | 174  | 2    |
| 95°  | 0    | 38    | 102  | 140   | 147  | 0    |
| 105° | 0    | 27    | 69   | 98    | 107  | 0    |
| 115° | 2    | 22    | 49   | 71    | 76   | 2    |
| 125° | 2    | 18    | 40   | 51    | 56   | 2    |
| 135° | 2    | 16    | 31   | 40    | 42   | 2    |
| 145° | 2    | 11    | 22   | 31    | 33   | 1    |
| 155° | 2    | 9     | 16   | 22    | 24   | 1    |
| 165° | 2    | 4     | 9    | 11    | 13   | 1    |
| 175° | 4    | 4     | 4    | 4     | 2    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2663.6 | 2663.6 | 2663.6 | 2663.6 | 2663.6 |
| 1°    | 2685.9 | 2674.8 | 2645.8 | 2665.9 | 2661.4 |
| 2°    | 2683.7 | 2672.5 | 2639.2 | 2648.1 | 2632.5 |
| 3°    | 2681.4 | 2665.9 | 2614.7 | 2612.5 | 2590.2 |
| 4°    | 2679.2 | 2654.7 | 2583.5 | 2556.8 | 2539.0 |
| 5°    | 2677.0 | 2641.4 | 2545.7 | 2496.7 | 2470.0 |
| 6°    | 2674.8 | 2625.8 | 2496.7 | 2423.3 | 2385.5 |
| 7°    | 2670.3 | 2601.3 | 2445.6 | 2345.4 | 2296.5 |
| 8°    | 2665.9 | 2579.1 | 2381.0 | 2260.9 | 2200.8 |
| 9°    | 2661.4 | 2550.2 | 2316.5 | 2169.6 | 2098.4 |
| 10°   | 2652.5 | 2521.2 | 2249.7 | 2076.2 | 2000.5 |
| 11°   | 2648.1 | 2487.8 | 2185.2 | 1987.2 | 1898.2 |
| 12°   | 2639.2 | 2452.2 | 2116.2 | 1893.7 | 1815.8 |
| 13°   | 2630.3 | 2414.4 | 2031.7 | 1813.6 | 1720.1 |
| 14°   | 2621.4 | 2374.4 | 1958.2 | 1724.6 | 1637.8 |
| 15°   | 2610.2 | 2332.1 | 1875.9 | 1640.0 | 1551.0 |
| 16°   | 2599.1 | 2283.1 | 1802.5 | 1553.2 | 1459.8 |
| 17°   | 2588.0 | 2236.4 | 1733.5 | 1473.1 | 1388.6 |
| 18°   | 2574.6 | 2189.7 | 1653.4 | 1395.2 | 1312.9 |
| 19°   | 2556.8 | 2136.3 | 1588.8 | 1324.0 | 1248.4 |
| 20°   | 2541.3 | 2087.3 | 1515.4 | 1257.3 | 1190.5 |
| 21°   | 2523.5 | 2027.2 | 1442.0 | 1195.0 | 1128.2 |
| 22.5° | 2496.7 | 1942.7 | 1348.5 | 1117.1 | 1054.8 |
| 23°   | 2483.4 | 1918.2 | 1310.7 | 1088.2 | 1034.7 |
| 24°   | 2465.6 | 1853.6 | 1248.4 | 1043.6 | 990.2  |
| 25°   | 2438.9 | 1802.5 | 1195.0 | 1003.6 | 961.3  |
| 26°   | 2414.4 | 1740.2 | 1141.6 | 968.0  | 925.7  |
| 27°   | 2389.9 | 1680.1 | 1094.8 | 930.2  | 894.6  |
| 28°   | 2358.8 | 1617.8 | 1043.6 | 899.0  | 867.9  |
| 29°   | 2325.4 | 1559.9 | 1001.4 | 872.3  | 847.8  |
| 30°   | 2292.0 | 1495.4 | 965.8  | 847.8  | 827.8  |
| 32.5° | 2198.6 | 1353.0 | 874.5  | 801.1  | 787.7  |
| 35°   | 2087.3 | 1219.4 | 810.0  | 758.8  | 754.4  |
| 37.5° | 1962.7 | 1097.1 | 752.1  | 725.4  | 729.9  |
| 40°   | 1815.8 | 985.8  | 703.2  | 701.0  | 709.9  |
| 42.5° | 1660.0 | 890.1  | 665.4  | 680.9  | 694.3  |
| 45°   | 1499.8 | 803.3  | 627.5  | 660.9  | 678.7  |
| 47.5° | 1332.9 | 727.7  | 594.1  | 636.4  | 656.5  |
| 50°   | 1163.8 | 654.2  | 558.5  | 607.5  | 627.5  |
| 52.5° | 1012.5 | 589.7  | 522.9  | 574.1  | 596.4  |
| 55°   | 861.2  | 527.4  | 485.1  | 538.5  | 556.3  |
| 57.5° | 729.9  | 469.5  | 445.1  | 498.5  | 511.8  |
| 60°   | 607.5  | 413.9  | 405.0  | 454.0  | 469.5  |
| 62.5° | 496.2  | 364.9  | 367.2  | 413.9  | 429.5  |
| 65°   | 405.0  | 318.2  | 333.8  | 376.1  | 389.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 67.5°  | 329.3 | 273.7 | 300.4 | 344.9 | 356.0 |
| 70°    | 260.4 | 233.7 | 273.7 | 313.8 | 324.9 |
| 72.5°  | 206.9 | 198.0 | 247.0 | 289.3 | 298.2 |
| 75°    | 158.0 | 164.7 | 224.8 | 264.8 | 275.9 |
| 77.5°  | 113.5 | 138.0 | 202.5 | 244.8 | 253.7 |
| 80°    | 80.1  | 113.5 | 184.7 | 227.0 | 235.9 |
| 82.5°  | 51.2  | 93.5  | 166.9 | 211.4 | 220.3 |
| 85°    | 26.7  | 75.7  | 151.3 | 195.8 | 204.7 |
| 87.5°  | 11.1  | 62.3  | 135.7 | 180.2 | 189.1 |
| 90°    | 0.0   | 51.2  | 122.4 | 166.9 | 173.6 |
| 92.5°  | 0.0   | 44.5  | 111.3 | 153.5 | 160.2 |
| 95°    | 0.0   | 37.8  | 102.4 | 140.2 | 146.9 |
| 97.5°  | 0.0   | 35.6  | 91.2  | 129.1 | 135.7 |
| 100°   | 0.0   | 31.2  | 82.3  | 117.9 | 126.8 |
| 102.5° | 0.0   | 28.9  | 75.7  | 106.8 | 115.7 |
| 105°   | 0.0   | 26.7  | 69.0  | 97.9  | 106.8 |
| 107.5° | 0.0   | 24.5  | 64.5  | 91.2  | 97.9  |
| 110°   | 0.0   | 24.5  | 57.9  | 84.6  | 91.2  |
| 112.5° | 2.2   | 22.3  | 53.4  | 75.7  | 82.3  |
| 115°   | 2.2   | 22.3  | 49.0  | 71.2  | 75.7  |
| 117.5° | 2.2   | 22.3  | 46.7  | 64.5  | 69.0  |
| 120°   | 2.2   | 20.0  | 44.5  | 60.1  | 64.5  |
| 122.5° | 2.2   | 20.0  | 42.3  | 55.6  | 57.9  |
| 125°   | 2.2   | 17.8  | 40.1  | 51.2  | 55.6  |
| 127.5° | 2.2   | 17.8  | 37.8  | 49.0  | 51.2  |
| 130°   | 2.2   | 17.8  | 35.6  | 44.5  | 49.0  |
| 132.5° | 2.2   | 15.6  | 33.4  | 42.3  | 44.5  |
| 135°   | 2.2   | 15.6  | 31.2  | 40.1  | 42.3  |
| 137.5° | 2.2   | 13.4  | 28.9  | 37.8  | 40.1  |
| 140°   | 2.2   | 13.4  | 26.7  | 35.6  | 37.8  |
| 142.5° | 2.2   | 11.1  | 24.5  | 33.4  | 35.6  |
| 145°   | 2.2   | 11.1  | 22.3  | 31.2  | 33.4  |
| 147.5° | 2.2   | 11.1  | 20.0  | 28.9  | 31.2  |
| 150°   | 2.2   | 8.9   | 17.8  | 26.7  | 28.9  |
| 152.5° | 2.2   | 8.9   | 15.6  | 24.5  | 26.7  |
| 155°   | 2.2   | 8.9   | 15.6  | 22.3  | 24.5  |
| 157.5° | 2.2   | 6.7   | 13.4  | 17.8  | 22.3  |
| 160°   | 2.2   | 6.7   | 11.1  | 15.6  | 20.0  |
| 162.5° | 2.2   | 6.7   | 11.1  | 13.4  | 15.6  |
| 165°   | 2.2   | 4.5   | 8.9   | 11.1  | 13.4  |
| 167.5° | 2.2   | 4.5   | 6.7   | 8.9   | 11.1  |
| 170°   | 2.2   | 4.5   | 6.7   | 6.7   | 8.9   |
| 172.5° | 2.2   | 4.5   | 4.5   | 4.5   | 4.5   |
| 175°   | 4.5   | 4.5   | 4.5   | 4.5   | 2.2   |
| 177.5° | 4.5   | 4.5   | 4.5   | 2.2   | 2.2   |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.2 | 2.2   | 2.2 | 2.2   | 2.2 |

(END OF REPORT)