

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: P567182

Luminaire Tested: **8SNX-102SL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567182  
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: 8SNX-102SL-LW-UNV-L930-CD  
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

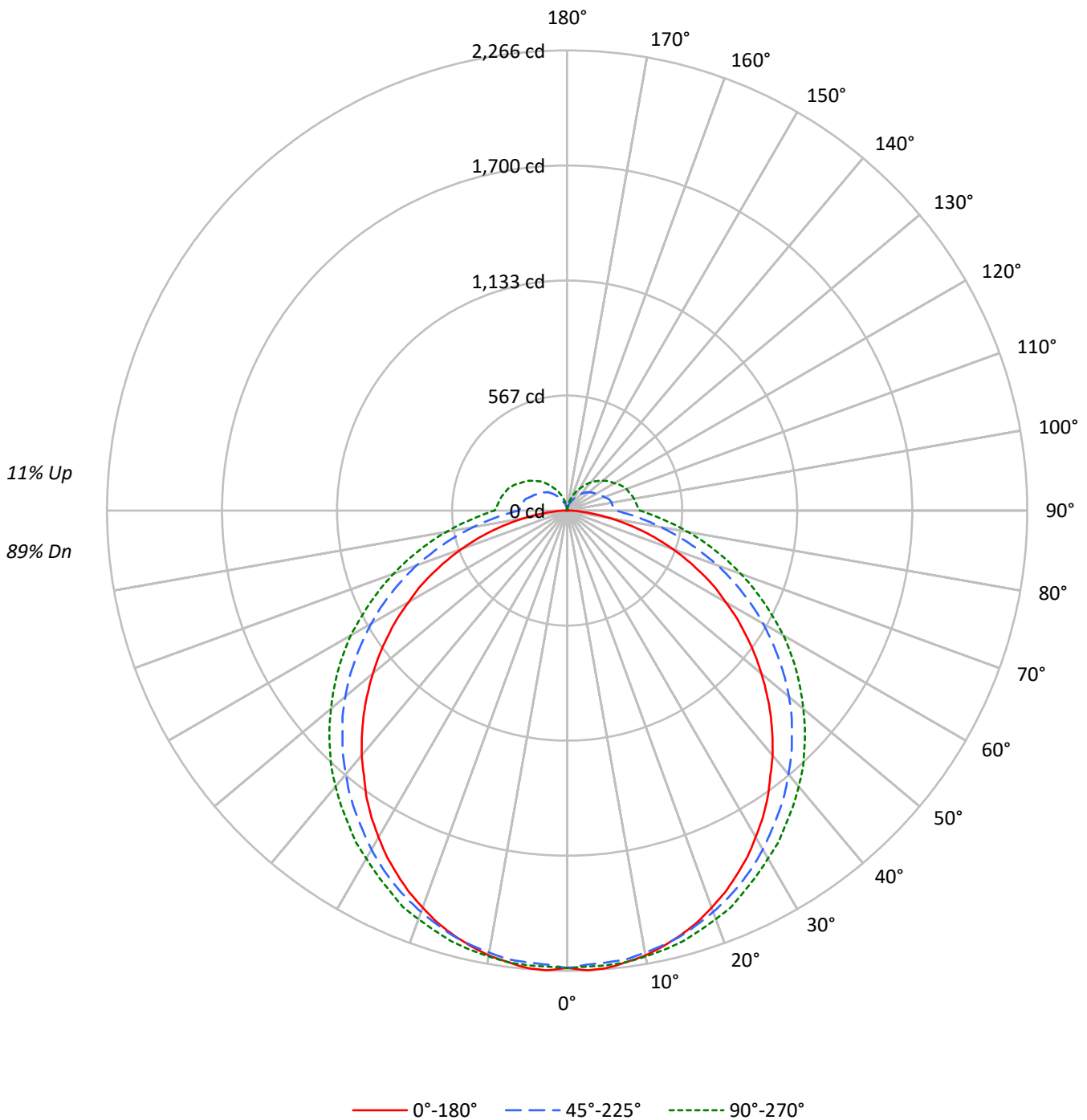
Lumens per Lamp: N/A  
Luminaire Lumens: 8017.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P567182

CATALOG NUMBER: 8SNX-102SL-LW-UNV-L930-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567182

CATALOG NUMBER: 8SNX-102SL-LW-UNV-L930-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 | 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  | 77  | 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°  | 12120 | 12120 | 12120 |
| 5°  | 12194 | 11574 | 11472 |
| 10° | 12110 | 11125 | 10899 |
| 15° | 11989 | 10689 | 10383 |
| 20° | 11824 | 10236 | 9866  |
| 25° | 11633 | 9800  | 9360  |
| 30° | 11405 | 9351  | 8876  |
| 35° | 11156 | 8899  | 8423  |
| 40° | 10869 | 8457  | 7991  |
| 45° | 10559 | 8014  | 7549  |
| 50° | 10204 | 7557  | 7085  |
| 55° | 9815  | 7046  | 6629  |
| 60° | 9358  | 6512  | 6147  |
| 65° | 8887  | 5935  | 5598  |
| 70° | 8225  | 5318  | 5057  |
| 75° | 7345  | 4597  | 4484  |
| 80° | 5921  | 3869  | 3913  |
| 85° | 4170  | 3193  | 3326  |



TEST NUMBER: P567182

CATALOG NUMBER: 8SNX-102SL-LW-UNV-L930-CD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 213.9  | 2.7       |
| 10°-20°   | 614.8  | 7.7       |
| 20°-30°   | 934.9  | 11.7      |
| 30°-40°   | 1134.8 | 14.2      |
| 40°-50°   | 1199.2 | 15.0      |
| 50°-60°   | 1122.1 | 14.0      |
| 60°-70°   | 920.7  | 11.5      |
| 70°-80°   | 633.3  | 7.9       |
| 80°-90°   | 346.8  | 4.3       |
| 90°-100°  | 223.3  | 2.8       |
| 100°-110° | 200.4  | 2.5       |
| 110°-120° | 165.9  | 2.1       |
| 120°-130° | 127.7  | 1.6       |
| 130°-140° | 89.7   | 1.1       |
| 140°-150° | 54.1   | 0.7       |
| 150°-160° | 25.9   | 0.3       |
| 160°-170° | 8.5    | 0.1       |
| 170°-180° | 1.0    | 0.0       |
| 0°-30°    | 1763.6 | 22.0      |
| 0°-40°    | 2898.4 | 36.2      |
| 0°-60°    | 5219.7 | 65.1      |
| 0°-90°    | 7120.5 | 88.8      |
| 90°-120°  | 589.6  | 7.4       |
| 90°-150°  | 861.1  | 10.7      |
| 90°-180°  | 897.0  | 11.2      |
| 0°-180°   | 8017.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2252 | 2252  | 2252 | 2252  | 2252 |      |
| 5°   | 2261 | 2257  | 2233 | 2252  | 2247 | 214  |
| 15°  | 2164 | 2173  | 2168 | 2196  | 2196 | 610  |
| 25°  | 1978 | 2001  | 2024 | 2066  | 2066 | 911  |
| 35°  | 1723 | 1764  | 1816 | 1867  | 1880 | 1076 |
| 45°  | 1416 | 1481  | 1565 | 1634  | 1653 | 1092 |
| 55°  | 1077 | 1166  | 1272 | 1351  | 1379 | 964  |
| 65°  | 729  | 826   | 952  | 1040  | 1068 | 722  |
| 75°  | 381  | 483   | 622  | 720   | 752  | 401  |
| 85°  | 84   | 200   | 339  | 432   | 464  | 97   |
| 90°  | 0    | 111   | 237  | 325   | 358  | 6    |
| 95°  | 0    | 107   | 228  | 311   | 344  | 0    |
| 105° | 0    | 88    | 214  | 292   | 320  | 3    |
| 115° | 5    | 79    | 181  | 260   | 292  | 5    |
| 125° | 5    | 65    | 153  | 223   | 251  | 4    |
| 135° | 5    | 51    | 125  | 181   | 204  | 4    |
| 145° | 5    | 37    | 88   | 139   | 153  | 3    |
| 155° | 5    | 23    | 56   | 88    | 102  | 2    |
| 165° | 5    | 14    | 28   | 42    | 51   | 1    |
| 175° | 5    | 5     | 9    | 9     | 5    | 0    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |



TEST NUMBER: P567182

CATALOG NUMBER: 8SNX-102SL-LW-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2252.0 | 2252.0 | 2252.0 | 2252.0 | 2252.0 |
| 2.5°   | 2265.9 | 2261.3 | 2238.1 | 2256.6 | 2247.4 |
| 5°     | 2261.3 | 2256.6 | 2233.4 | 2252.0 | 2247.4 |
| 7.5°   | 2242.7 | 2242.7 | 2228.8 | 2247.4 | 2242.7 |
| 10°    | 2224.1 | 2224.1 | 2210.2 | 2233.4 | 2228.8 |
| 12.5°  | 2196.3 | 2200.9 | 2191.6 | 2219.5 | 2214.8 |
| 15°    | 2163.8 | 2173.1 | 2168.4 | 2196.3 | 2196.3 |
| 17.5°  | 2126.6 | 2135.9 | 2135.9 | 2168.4 | 2168.4 |
| 20°    | 2080.2 | 2094.1 | 2103.4 | 2140.6 | 2140.6 |
| 22.5°  | 2033.8 | 2052.3 | 2066.3 | 2098.8 | 2112.7 |
| 25°    | 1978.0 | 2001.3 | 2024.5 | 2066.3 | 2066.3 |
| 27.5°  | 1922.3 | 1950.2 | 1978.0 | 2019.8 | 2024.5 |
| 30°    | 1857.3 | 1889.8 | 1927.0 | 1968.8 | 1978.0 |
| 32.5°  | 1792.3 | 1834.1 | 1871.2 | 1922.3 | 1936.3 |
| 35°    | 1722.7 | 1764.4 | 1815.5 | 1866.6 | 1880.5 |
| 37.5°  | 1643.7 | 1694.8 | 1759.8 | 1815.5 | 1829.5 |
| 40°    | 1574.1 | 1629.8 | 1694.8 | 1759.8 | 1773.7 |
| 42.5°  | 1495.1 | 1555.5 | 1634.4 | 1694.8 | 1718.0 |
| 45°    | 1416.2 | 1481.2 | 1564.8 | 1634.4 | 1653.0 |
| 47.5°  | 1332.6 | 1406.9 | 1499.8 | 1564.8 | 1588.0 |
| 50°    | 1249.0 | 1328.0 | 1425.5 | 1499.8 | 1518.4 |
| 52.5°  | 1165.5 | 1249.0 | 1351.2 | 1425.5 | 1448.7 |
| 55°    | 1077.2 | 1165.5 | 1272.3 | 1351.2 | 1379.1 |
| 57.5°  | 993.7  | 1081.9 | 1193.3 | 1276.9 | 1304.8 |
| 60°    | 900.8  | 1002.9 | 1114.4 | 1198.0 | 1230.5 |
| 62.5°  | 821.9  | 914.7  | 1035.5 | 1119.0 | 1146.9 |
| 65°    | 729.0  | 826.5  | 951.9  | 1040.1 | 1068.0 |
| 67.5°  | 640.8  | 742.9  | 868.3  | 961.2  | 989.0  |
| 70°    | 552.6  | 654.7  | 789.4  | 877.6  | 910.1  |
| 72.5°  | 464.3  | 571.1  | 701.1  | 798.6  | 831.1  |
| 75°    | 380.7  | 482.9  | 622.2  | 719.7  | 752.2  |
| 77.5°  | 292.5  | 404.0  | 543.3  | 640.8  | 677.9  |
| 80°    | 213.6  | 329.7  | 469.0  | 566.5  | 603.6  |
| 82.5°  | 143.9  | 260.0  | 399.3  | 496.8  | 534.0  |
| 85°    | 83.6   | 199.7  | 339.0  | 431.8  | 464.3  |
| 87.5°  | 41.8   | 153.2  | 283.2  | 376.1  | 408.6  |
| 90°    | 0.0    | 111.4  | 236.8  | 325.0  | 357.5  |
| 92.5°  | 0.0    | 106.8  | 232.2  | 315.7  | 348.2  |
| 95°    | 0.0    | 106.8  | 227.5  | 311.1  | 343.6  |
| 97.5°  | 0.0    | 102.2  | 222.9  | 311.1  | 339.0  |
| 100°   | 0.0    | 97.5   | 222.9  | 306.5  | 334.3  |
| 102.5° | 0.0    | 92.9   | 218.2  | 301.8  | 329.7  |
| 105°   | 0.0    | 88.2   | 213.6  | 292.5  | 320.4  |
| 107.5° | 4.6    | 88.2   | 204.3  | 287.9  | 315.7  |
| 110°   | 4.6    | 83.6   | 195.0  | 283.2  | 311.1  |



TEST NUMBER: P567182

CATALOG NUMBER: 8SNX-102SL-LW-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 4.6 | 78.9  | 185.7 | 274.0 | 301.8 |
| 115°   | 4.6 | 78.9  | 181.1 | 260.0 | 292.5 |
| 117.5° | 4.6 | 74.3  | 171.8 | 250.7 | 283.2 |
| 120°   | 4.6 | 74.3  | 167.2 | 241.5 | 269.3 |
| 122.5° | 4.6 | 69.6  | 157.9 | 232.2 | 260.0 |
| 125°   | 4.6 | 65.0  | 153.2 | 222.9 | 250.7 |
| 127.5° | 4.6 | 60.4  | 148.6 | 213.6 | 241.5 |
| 130°   | 4.6 | 55.7  | 139.3 | 204.3 | 227.5 |
| 132.5° | 4.6 | 55.7  | 134.7 | 190.4 | 218.2 |
| 135°   | 4.6 | 51.1  | 125.4 | 181.1 | 204.3 |
| 137.5° | 4.6 | 46.4  | 116.1 | 171.8 | 195.0 |
| 140°   | 4.6 | 41.8  | 106.8 | 162.5 | 181.1 |
| 142.5° | 4.6 | 41.8  | 97.5  | 148.6 | 167.2 |
| 145°   | 4.6 | 37.1  | 88.2  | 139.3 | 153.2 |
| 147.5° | 4.6 | 32.5  | 78.9  | 125.4 | 139.3 |
| 150°   | 4.6 | 32.5  | 69.6  | 111.4 | 125.4 |
| 152.5° | 4.6 | 27.9  | 60.4  | 102.2 | 116.1 |
| 155°   | 4.6 | 23.2  | 55.7  | 88.2  | 102.2 |
| 157.5° | 4.6 | 23.2  | 46.4  | 74.3  | 88.2  |
| 160°   | 4.6 | 18.6  | 41.8  | 60.4  | 74.3  |
| 162.5° | 4.6 | 18.6  | 37.1  | 51.1  | 65.0  |
| 165°   | 4.6 | 13.9  | 27.9  | 41.8  | 51.1  |
| 167.5° | 4.6 | 13.9  | 23.2  | 32.5  | 41.8  |
| 170°   | 4.6 | 9.3   | 18.6  | 23.2  | 32.5  |
| 172.5° | 4.6 | 9.3   | 13.9  | 13.9  | 13.9  |
| 175°   | 4.6 | 4.6   | 9.3   | 9.3   | 4.6   |
| 177.5° | 4.6 | 4.6   | 4.6   | 4.6   | 4.6   |
| 180°   | 4.6 | 4.6   | 4.6   | 4.6   | 4.6   |

(END OF REPORT)